

Roy, Ranjan

From: Matthew Watson <matthew.watson@specialtygranules.com>
Sent: Tuesday, October 29, 2019 2:10 PM
To: Roy, Ranjan
Cc: Bubbenmoyer, David; Izer, James F.
Subject: [External] Re: FW: RFD #2101 Approved on 9 October 2019, Two Conveyors replaced with One Conveyor System, Equipment For Source 403, Waste Fines Disposal System

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Incudes: 2 silos, 2 feeders, 3 conveyors, 4 slides, 2 rotary valves and 2 worms (screw conveyors)

Controlled by ID = H02 (Carter-Day "D") Stack source ID = X02

~Matt

Matthew R. Watson

Environmental Coordinator



Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

On Thu, Oct 10, 2019 at 8:07 AM Roy, Ranjan <rroy@pa.gov> wrote:

Matt,

Thank you for your notes and comments on the proposed conveying system by your e-mail yesterday.

Attached please find the RFD scan copy duly approved. Please let us know when the new conveying system is up and running satisfactorily.

The draft permit Section H includes equipment list of some units, can we have the updated equipment list under Source 403. Thank you.

Have a nice day.

Sincerely,

Ranjan

Ranjan Roy | AQE

Department of Environmental Protection

Southcentral Regional Office

909 Elmerton Avenue | Harrisburg, PA 17110

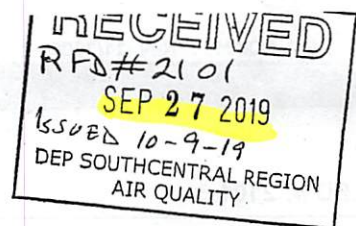
Phone: 717.705.4878 | Fax: 717.705.4830

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pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY



REQUEST FOR DETERMINATION OF CHANGES OF MINOR SIGNIFICANCE
AND EXEMPTION FROM PLAN APPROVAL/OPERATING PERMIT
UNDER PA CODE §127.14 OR §127.449

A. Type of Request

Exemption from Plan Approval

Select all that apply (see Instructions):

<http://www.depgreenport.state.pa.us/elibrary/GetFolder.aspx?FolderID=3658>

- ☐ Minor Sources or classes of sources, pursuant to 25 Pa. Code § 127.14(a)(1)-(7).
- ☐ Other sources and classes of sources of minor significance, pursuant to 25 Pa. Code § 127.14(a)(8).
- ☒ Physical changes to sources of minor significance, pursuant to 25 Pa. Code § 127.14(a)(9).
- ☐ Additional physical changes of minor significance that do not add new equipment, pursuant to 25 Pa. Code § 127.14(c)(1).
- ☐ Additional physical changes of minor significance that add new equipment, pursuant to 25 Pa. Code § 127.14(c)(2).
- ☐ Changes due to de minimis increases in emissions, pursuant to 25 Pa. Code § 127.449.

Exemption from Operating Permit

Select all that apply (see Instructions):

<http://www.depgreenport.state.pa.us/elibrary/GetFolder.aspx?FolderID=3658>

- ☐ Other sources and classes of sources of minor significance, pursuant to 25 Pa. Code § 127.14(a)(8).
- ☐ Physical changes to sources of minor significance, pursuant to 25 Pa. Code § 127.14(a)(9).
- ☐ Additional physical changes of minor significance that do not add new equipment, pursuant to 25 Pa. Code § 127.14(c)(1).
- ☐ Additional physical changes of minor significance that add new equipment, pursuant to 25 Pa. Code § 127.14(c)(2).
- ☐ Changes due to de minimis increases in emissions, pursuant to 25 Pa. Code § 127.449.

(Must have valid operating permit conditions authorizing de minimis increases.)

B. Facility/Company Information

Facility/Company Name: Specialty Granules LLC

Plant Name (if applicable): Charmian Plant

Site Address: 1455 Old Waynesboro Road

Municipality: Hamiltonban Township

County: Adams

Mailing Address (if different): PO Box "O", Blue Ridge Summit, PA 17214

Federal Employer Identification Number (EIN) (if applicable): 22-3807370-1

Current Operating Permit No. (if applicable): 01-05016

NAICS Code: 327992

Person Completing Form: Matthew Watson

Affiliation: Employee

Address (if different from facility/company):

Same As Above

Telephone: (717) 794 - 2184

E-Mail:

matthew.watson@specialtygranules.com

Facility/Company Contact Person: Matt Watson

Title: Environmental Coordinator

Address (if different from facility/company):

Same As Above

Telephone: (717) 794 - 3303

E-Mail:

C. Project Description

Project Type:

☐ New construction

☒ Modification

☐ Remediation

☐ Other (see Instructions)

<http://www.depgreenport.state.pa.us/elibrary/GetFolder.aspx?FolderID=3658>

Total number of sources in project: 1

RFD #: 2101

Date Received: 9/23/19Reviewed By: Ranjan Roy

- ☒ A plan approval is not required for this source (See 25 Pa. Code Section 127.14(a)(1)-(9))
- ☐ An operating permit is not required for this source (See 25 Pa. Code Section 127.443(a))
- ☐ The source(s) do(es) not qualify for exemption. Applicant is required to submit a plan approval application.
- ☐ The source(s) do(es) not qualify for exemption. Applicant is required to submit an operating permit application.



Signature

Tom Bianca, P.E., West Permitting Section Chief
Name and Title

Date

10/9/19

Remarks: RFD #2101, Specialty Granules LLC, is rock crushing and finishing facility. They have proposed to replace existing conveying system with a new conveyor as follows:

1. Replace the current Two-Conveyor System, capacity approximately 300 tons per hour (tph), and has two transfer points. The old two conveyor units are:

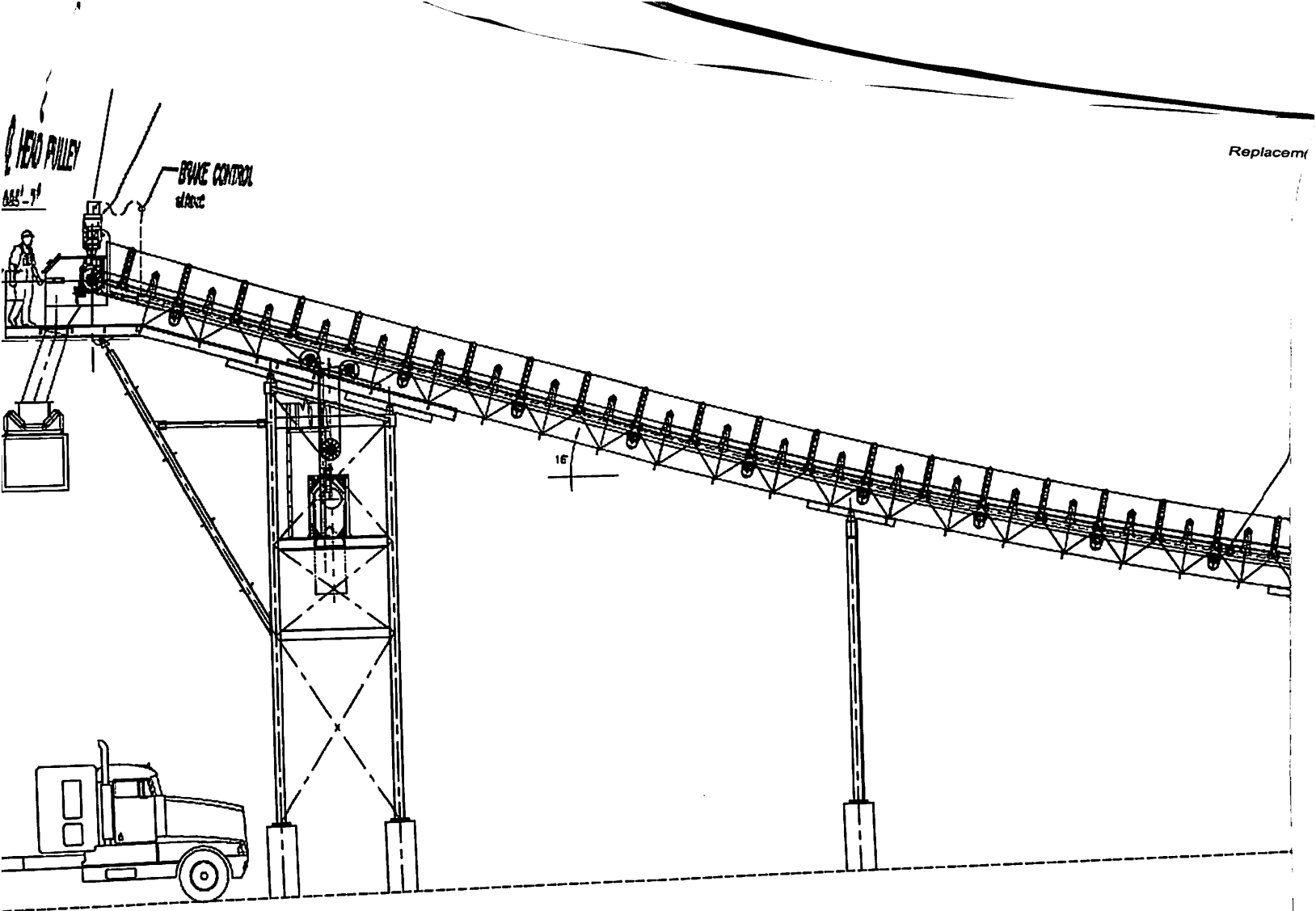
- a. C-4A (36"X30'), reversible
- b. C4 (36" X 125')

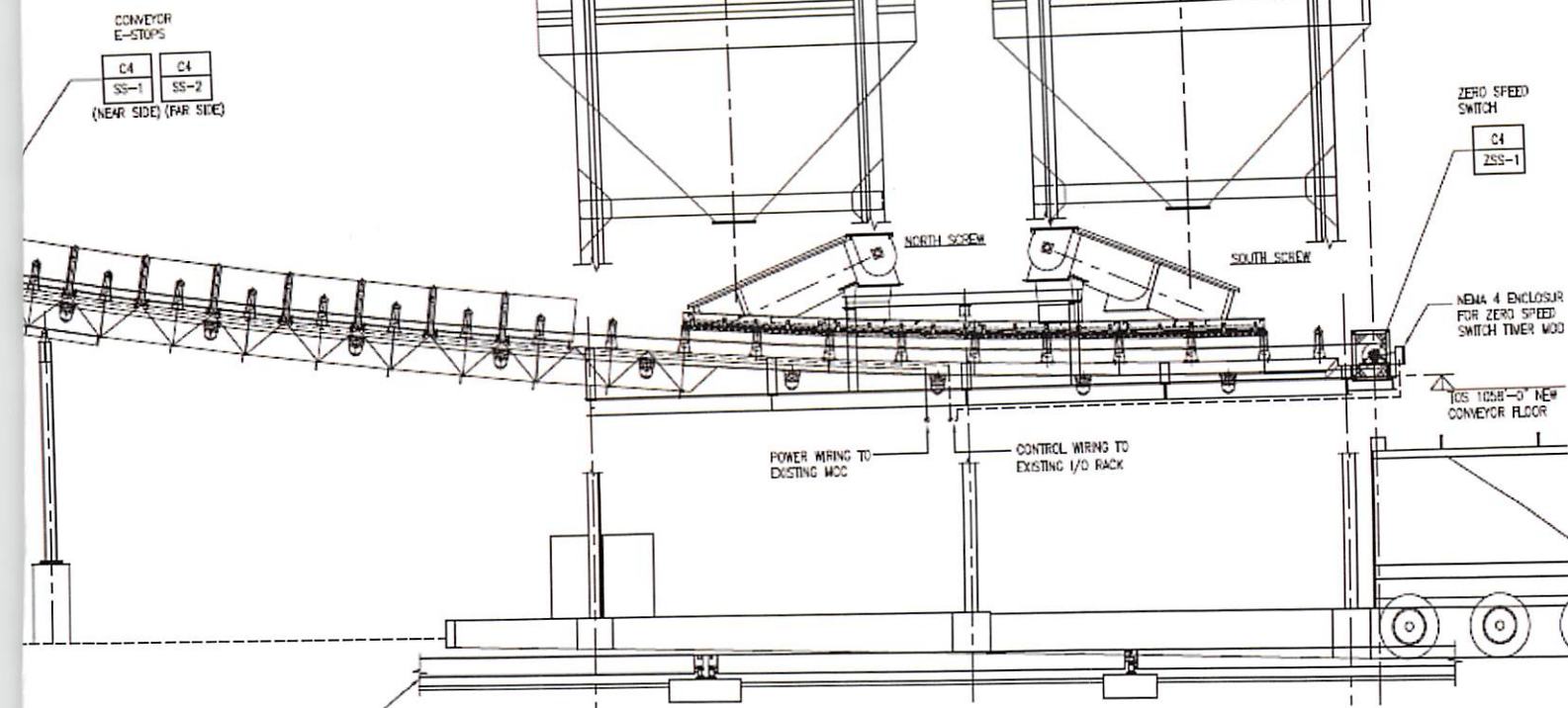
2. Replace them with a single reversible conveyor system. The modified system will be a 36" x 155' belt, with only one transfer point. The revised throughput capacity will be 325 tph.

This conveying system is part of the permit Source ID 403, and controlled by H021, at the same location. There will be no changes to site and operations, except that the two conveyor system will henceforth be referred as "One Conveyor System".

The RFD page 3 includes the estimated emissions from the conveyor system, 0.127 tpy of PM10. The facility has submitted that the net emissions should reduce due to one less transfer point and deeper tray in the conveying system. This RFD will actually reduce PM emissions.

The submitted RFD is exempt from air quality permit requirements pursuant to 25 Pa. Code §127.14 (a)(8), Item No. 44 of the Department's Plan Approval Exemption List, Document ID 275-2101-003 (revised: 7/26/03; amended 8/10/13).





Roy, Ranjan

From: James Izer <james.izer@specialtygranules.com>
Sent: Friday, April 5, 2019 1:34 PM
To: Roy, Ranjan
Cc: Matt Watson
Subject: [External] Re: Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016 Review
Attachments: 19-58 transfer.jpg

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Hi Ranjan,

The new Donaldson 124 RFW-AW-10 has pickups going to the following pieces of equipment : 19C conveyor and 976 conveyor head pulley discharge points to 58C conveyor.

Regards Jim

On Fri, Oct 5, 2018 at 11:25 AM Roy, Ranjan <rroy@pa.gov> wrote:

Matt and Izer,

Is the below highlighted 124 RFW-AW-10 in Undersize Material Processing Plant (UMP) or in the downstream conveying system? I am thinking of the new ID and what suffix? Is it 420A or 403A or 403B? Thanks and have a good weekend.

Sincerely,
Ranjan
Ranjan Roy | AQE
Department of Environmental Protection
Southcentral Regional Office
909 Elmer ton Avenue | Harrisburg, PA 17110
Phone: 717.705.4878 | Fax: 717.705.4830

www.depweb.state.pa.us

From: Matthew Watson [<mailto:matthew.watson@specialtygranules.com>]
Sent: Thursday, October 4, 2018 11:12 AM
To: Roy, Ranjan <rroy@pa.gov>; Izer, James F. <james.izer@specialtygranules.com>
Subject: Re: Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016 Review

Carter Day C was the 19 & 58 conveyor transfer dust collector

Carter day C was an RJ37-72 unit which has been removed from service.

It was replaced with a Donaldson 124 RFW-AW-10; installed 10/2014; [[Is it covered by plan approval 01-05016P or any RFD?]]

Air-to-cloth ratio of 5.27:1 @ 8,500 CFM

30 HP,

I believe we need a new ID number for this unit. It would have been part of the Plan approval for the Undersize Material Processing Plant (UMP) around mid-year 2013.

Let me know if you need anything else. Thanks!

~Matt

Matthew R. Watson
Environmental Coordinator
Charmian Plant
Blue Ridge Summit, PA
Direct: (717) 794-3303
Cell: (717) 729-5028
Fax: (717) 794-5248

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Roy, Ranjan

From: Roy, Ranjan
Sent: Friday, October 5, 2018 11:26 AM
To: 'Matthew Watson'; Izer, James F.
Subject: RE: Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016 Review

Matt and Izer,

Is the below highlighted ~~124 RFW-AW-10~~ in Undersize Material Processing Plant (~~UMP~~) or in the downstream conveying system? I am thinking of the new ID and what suffix? Is it 420A or 403A or 403B? Thanks and have a good weekend.

Sincerely,

Ranjan

Ranjan Roy | AQE

Department of Environmental Protection

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Phone: 717.705.4878 | Fax: 717.705.4830

www.depweb.state.pa.us

From: Matthew Watson [mailto:matthew.watson@specialtygranules.com]
Sent: Thursday, October 4, 2018 11:12 AM
To: Roy, Ranjan <rroy@pa.gov>; Izer, James F. <james.izer@specialtygranules.com>
Subject: Re: Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016 Review

Carter Day C was the 19 & 58 ~~conveyor transfer~~ dust collector

Carter day C was an RJ37-72 unit which has been removed from service.

It was replaced with a ~~Donaldson 124 RFW-AW-10; Installed 10/2014; [[Is it covered by plan approval 01-05016P or any RFD?]]~~

Air-to-cloth ratio of 5.27:1 @ 8,500 CFM

30 HP,

I believe we need a new ID number for this unit. It would have been part of the Plan approval for the Undersize Material Processing Plant (~~UMP~~) around mid-year 2013.

Let me know if you need anything else. Thanks!

~Matt

Matthew R. Watson

Environmental Coordinator

Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

Roy, Ranjan

From: Weaver, William
Sent: Friday, September 7, 2018 10:40 AM
To: Roy, Ranjan
Cc: Bianca, Tom
Subject: RE: Specialty Granules, 01-05016

The initialed addendum memo should be discarded, and a revised version should be prepared that is fully correct. If the status of D11A still needs to be determined, then the memo should state that.

From: Roy, Ranjan
Sent: Friday, September 7, 2018 10:38 AM
To: Weaver, William <wiweaver@pa.gov>
Cc: Bianca, Tom <tbianca@pa.gov>
Subject: RE: Specialty Granules, 01-05016

Yes, partly incorrect about the controls linked to one and all, until we finalize them. So, I call it "Interim Memo"!!

From: Weaver, William
Sent: Friday, September 7, 2018 10:32 AM
To: Roy, Ranjan <rroy@pa.gov>
Cc: Bianca, Tom <tbianca@pa.gov>
Subject: FW: Specialty Granules, 01-05016

Does that mean the addendum memo that we all initialed may be incorrect?

From: Roy, Ranjan
Sent: Friday, September 7, 2018 10:13 AM
To: Weaver, William <wiweaver@pa.gov>
Cc: Bianca, Tom <tbianca@pa.gov>
Subject: RE: Specialty Granules, 01-05016
Bill, Thank you. For Item 1 below: During our tour on 8/21, we were mixed up about the D11A and so I prefer to edit it after we have all sources and controls figured, and may be, another site visit to verify.
Ranjan

From: Weaver, William
Sent: Friday, September 7, 2018 10:06 AM
To: Roy, Ranjan <rroy@pa.gov>
Cc: Bianca, Tom <tbianca@pa.gov>
Subject: FW: Specialty Granules, 01-05016
Two suggestions on the permit. Please re-send redrafted permit.
1.) The draft permit Source 216 map does not contain D11A as stated in the addendum.
2.) Section H: delete item 010 about the GP3; we should not mention GPs in a state-only permit unless the particular GP has been incorporated into the state-only permit.

From: Roy, Ranjan
Sent: Tuesday, September 4, 2018 8:51 AM
To: Weaver, William <wiweaver@pa.gov>

Cc: Bianca, Tom <tbianca@pa.gov>

Subject: RE: Specialty Granules, 01-05016

Bill, Good Morning. Attached please find the current version of the draft operating permit and also the interim draft Addendum Memo. Thank you for updating and editing. Ranjan

From: Weaver, William

Sent: Thursday, August 30, 2018 1:17 PM

To: Roy, Ranjan <rroy@pa.gov>

Cc: Bianca, Tom <tbianca@pa.gov>

Subject: FW: Specialty Granules, 01-05016

Attached are my suggestions on the addendum memo. Please email me a copy of the current draft of this permit when finalizing this memo.

From: Roy, Ranjan

Sent: Thursday, August 30, 2018 11:09 AM

To: Weaver, William <wiweaver@pa.gov>

Subject: RE: Specialty Granules, 01-05016

Sure

From: Weaver, William

Sent: Thursday, August 30, 2018 11:07 AM

To: Roy, Ranjan <rroy@pa.gov>

Cc: Bianca, Tom <tbianca@pa.gov>

Subject: Specialty Granules

Ranjan,

Could you send me an e-version of the Specialty Granules addendum memo?



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

MEMO2

FROM Ranjan Roy, AQE *[Signature]*
TO William R. Weaver *WRW 9/7/18*
Program Manager
Air Quality Program
THRU Tom Bianca, P.E. *[Signature] 9-7-18*
Environmental Engineering Manager
West Permitting Section
DATE September 7, 2018
RE Addendum Memo (Interim)
Specialty Granules, LLC
Rock Crushing into Fines, Charmian & Pitts Quarries
SOOP No. 01-05016 Renewal
Hamiltonban Township, Adams County

The proposed State Only Operating Permit (SOOP) was sent to the company by e-mail on July 27, 2018. The company responded by e-mail on August 16, 2018, offered no comments, and accepted the permit.

The proposed SOOP was sent to Department's York District Supervisor by e-mail on 7/27/18. He replied by e-mail on 7/31/18 and there were no comments.

The following issues were raised as a result of follow-up discussions with the company while finalizing the permit:

1. GP3-01-05016A was issued on 7/9/18 to install a portable aggregate plant operated by electricity. The GP3 has expiration date of 6/30/23. The equipment authorized as per the GP3 was commissioned effective 8/13/18. During site inspection on 8/21/18, the aggregate plant was operating. This GP3 is not presently being incorporated into the State-only permit.
2. RFD #1228 authorized replacement of baghouse D11. By email on 8/23/18, the company have connected the new baghouse PowerCore (Control ID D11A, capacity 2,500 cfm) to Source ID 216. "G11 Dedusting and Oiling". This change will be made upon further verification of all controls to specific sources and then the permit maps will be updated, as noted below.
3. Section H item #009: Baghouse list was updated based on the company comments during inspection of the site on 8/21/18, except Carter Day C unit, referenced their e-mail on 8/23/18. A final list of sources controlled is still needed for this unit.

The *Pa. Bulletin* notice was published on June 14, 2018 (48 Pa. B 4130). The only public comment received was from an advocacy group called the Friends of Tom's Creek. The comment stated that, "*Friends of Toms Creek objects to the reissuance of this permit. The stone being mined by Specialty Granules, Inc. is reported to contain naturally occurring asbestos and other contaminants. We request that a toxicology study be undertaken to ensure that is not the case. If asbestos or other dangerous contaminants, such as silicates, are crushed at this location,*

we demand to know what steps are taken to ensure that these dangerous matters are not airborne or otherwise released into our environment."

In the process of researching this comment, DEP's Air Program became aware that the same group had raised similar issues with DEP's Mining Program with regard to a pending mining expansion permit for this facility. I recommend that reissuance of the facility's air permit be held in abeyance until DEP's Air and Mining Programs have looked further into the issues raised by these public comments. This will also provide opportunity to identify the remaining control "Carter Day C" and identify it to DEP Source ID.

cc: York District
Permits
SCRO, B2, 01-05016

Friends of Toms Creek

PO BOX 611
Fairfield, PA 17320
717-794-0088
Info@friendsoftomscreek.org

August 13, 2018

PA DEP
Southcentral Region: Air Quality Program
909 Elmer-ton Avenue, Harrisburg, PA 17110.

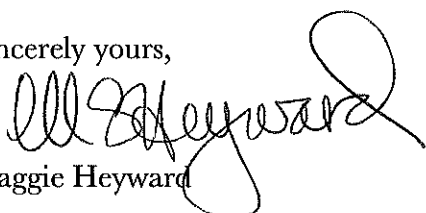
ATTN: Thomas Bianca, Facilities Permitting Chief, or William Weaver, Regional Air Quality Manager

Re: 01-05016

Dear Messrs. Bianca and Weaver:

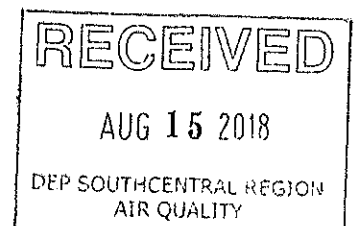
Friends of Toms Creek objects to the reissuance of this permit. The stone being mined by Specialty Granules, Inc. is reported to contain naturally occurring asbestos and other contaminants. We request that a toxicology study be undertaken to ensure that is not the case. If asbestos or other dangerous contaminants, such as silicates, are crushed at this location, we demand to know what steps are taken to ensure that these dangerous matters are not airborne or otherwise released into our environment.

Sincerely yours,



Maggie Heyward

Friends of Tom's Creek



FOTC
P.O. Box 611
Fairfield, PA 17320

PA DEP
South-Central Region
Air Quality Program
909 Elmwood Ave.
Harrisburg, PA 17110
Attn: Thomas Brauca; William Weaver

RECEIVED
AUG 15 2018
DEP SOUTH-CENTRAL REGION
AIR QUALITY

Roy, Ranjan

From: Roy, Ranjan
Sent: Wednesday, August 22, 2018 2:05 PM
To: 'Matthew Watson'
Subject: RE: Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016 Review
Attachments: 20180822135059528.pdf

Hi Matt and Jim,

FYI, Yet another input: Plan Approval No. 01-05016Q was allowed to expire as per SGI email on 3/17/2014 (please read the scan pages).

I think it explains my confusion about using an old unit removed from some-place. FYI, in the permit, we do not have the 403A mentioned in PA 01-05016Q.

Ranjan
Ranjan Roy | AQE
Department of Environmental Protection
Southcentral Regional Office
909 Elmer ton Avenue | Harrisburg, PA 17110
Phone: 717.705.4878 | Fax: 717.705.4830

From: Roy, Ranjan
Sent: Wednesday, August 22, 2018 11:57 AM
To: 'Matthew Watson' <matthew.watson@specialtygranules.com>
Subject: RE: Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016 Review
Matt and Jim, I created DEP ID of D11A for the Powercore, 2500 cfm baghouse. To attach it to an existing Map, I am not it is Source 211 or 216. Will you please print the permit Page 4-7, edit the map, scan it, send it to me.
Thanks,
Ranjan

From: Roy, Ranjan
Sent: Wednesday, August 22, 2018 9:26 AM
To: 'Matthew Watson' <matthew.watson@specialtygranules.com>
Cc: Meminger, Creedon <cmeminger@pa.gov>
Subject: FW: Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016 Review

Matt, Thank you, Jim and you made significant progress! Attached please find three pages (pdf 298 kb): two pages are from the current OP Section H (due renewal), and one from Plan Approval 01-05016N (text of page 4) [you have the Plan Approval testing results documents 'O' and 'P', good for identification]. Read the arrows highlighted and I hope they are useful to identify the remaining blank in your excel spreadsheet.

Regarding RFD #1228 approved 9/11/15, to replace the D11 by Powercore, it is a small unit (capacity 2500 cfm) and appears not included in the Section A of the permit renewal document. You may like to give it your ID (say D11A), edit the page 4 to 6 of the draft OP (to be renewed), and send it over to me.

Ranjan Roy | AQE
Department of Environmental Protection
Southcentral Regional Office

909 Elmer ton Avenue | Harrisburg, PA 17110
Phone: 717.705.4878 | Fax: 717.705.4830

From: Matthew Watson [mailto:matthew.watson@specialtygranules.com]

Sent: Tuesday, August 21, 2018 2:39 PM

To: Roy, Ranjan <rroy@pa.gov>

Cc: Meminger, Creedon <cmeminger@pa.gov>; Izer, James F. <james.izer@specialtygranules.com>; Justin Bushneck <justin.bushneck@specialtygranules.com>

Subject: Re: FW: Site Tour, Proposed permit Renewal, Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016

I have attached the updated SGI list with the corresponding PADEP ID#'s. the only outstanding items are the Carter-Day "C" and the CPV-4 PowerCore (in red font). We will get the Carter-Day "C" figured out and get back to you. Regarding the CPV-4 PowerCore. Please find the RFD and Response attached. At this time I have not found anything else in the electronic file nor do I have an ID number. Can you look on your end to see if an ID exists? It may have gotten emailed to Doug Crumbacker, or it may or may not have gotten to us at all. We will continue to look. Thanks for the help!

Matthew R. Watson

Environmental Coordinator

Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

Roy, Ranjan

From: Bubbenmoyer, David
Sent: Tuesday, July 31, 2018 2:21 PM
To: Roy, Ranjan
Subject: RE: Proposed permit Renewal, Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016

No comments

From: Roy, Ranjan
Sent: Friday, July 27, 2018 12:36 PM
To: Matthew Watson <matthew.watson@specialtygranules.com>
Cc: Bubbenmoyer, David <dbubbenmoy@pa.gov>
Subject: Proposed permit Renewal, Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016

Matt,

Attached please find the proposed subject operating permit No. 01-05016 renewal for your review and acceptance. Please let us know that we may proceed to have it issued; appreciate if you let us know at your earliest convenience.

Should you have any comments or concerns, please feel free to send an e-mail to me.

FYI, Pa. Bulletin notice was published on 7/14/18 and it has 30-day comment period.

Also, I am required to witness operation and you want us to walk around the baghouses to try to identify and link-up the excel file list of controls' facility ID with DEP IDs. Please let us have two days at your convenience. In the meantime feel free to read this list in Section H Item #009, Page 84-85, and go on connecting the Source ID and Control ID.

Thank you.

Sincerely,

Ranjan Roy | AQE

Department of Environmental Protection

Southcentral Regional Office

909 Elmer ton Avenue | Harrisburg, PA 17110

Phone: 717.705.4878 | Fax: 717.705.4830

www.depweb.state.pa.us

From: Matthew Watson [<mailto:matthew.watson@specialtygranules.com>]
Sent: Tuesday, July 17, 2018 9:09 AM
To: Roy, Ranjan <rroy@pa.gov>
Subject: Re: FW: Baghouses, NSPS Subpart OOO, SMOP 01-05016

Good, morning,

I got your phone message. We have been working to get this correct but the attached is the best we have been able to do. If possible, lets schedule your site tour so that Jim Izer and myself can accompany you so we can get this ironed out once and for all so we are all able to recognize the equipment by the referenced number that both PADEP and SGI call out on the sheets.

As always contact me with questions and I will do my best to figure things out in a timely manner.

~Matt

Matthew R. Watson

Environmental Coordinator



Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

On Wed, Jul 11, 2018 at 3:41 PM Roy, Ranjan <rroy@pa.gov> wrote:

Good Work! Can we add a "Source ID" column, may say 'Yes' where applicable? Thanks again,

From: Roy, Ranjan
Sent: Wednesday, July 11, 2018 3:27 PM
To: 'Matthew Watson' <matthew.watson@specialtygranules.com>
Subject: FW: Baghouses, NSPS Subpart OOO, SMOP 01-05016

Looks good, please add asterisk for Subpart OOO between after 31 August 1983 and until 22 April 2008 or not; also, double asterisk if subjected to post 22 April 2008 dates.

Ranjan

From: Matthew Watson [<mailto:matthew.watson@specialtygranules.com>]
Sent: Wednesday, July 11, 2018 3:11 PM
To: Roy, Ranjan <rroy@pa.gov>
Subject: Re: Baghouses, NSPS Subpart OOO, SMOP 01-05016

I'm compiling the information. Please take a look at the attached sheet and let me know if I should proceed with this format.

I am off tomorrow but will proceed with compiling the information to get you the complete listing.

15-00018: Vanguard Group/Frazer, (1200 Brennan Blvd, Malvern, PA 19087) for a Non-Title V Facility, State-Only, Synthetic Minor Permit in East Whiteland Township, **Chester County**. Vanguard is a Financial, Insurance and Real Estate—Security and Commodity Services Organization. The sources of emissions include boilers and generators. The company has an emission limit of 24.9 tons per year of NO_x. No changes to the current operating process have been proposed. Monitoring, record keeping and reporting requirements have been added to the permit to address applicable limitations.

Southcentral Region: Air Quality Program, 909 Elmerston Avenue, Harrisburg, PA 17110.

Contact: Thomas Bianca, Facilities Permitting Chief, 717.705.4863, or William Weaver, Regional Air Quality Manager, 717-705-4702.

36-05121: Paradise Custom Kitchens, Inc. (3333 Lincoln Highway East, PO Box 278, Paradise, PA 17562) to issue a State-Only Operating Permit for operation of their cabinet manufacturing facility in Paradise Township, **Lancaster County**. Actual emissions from the facility in 2017 were estimated to be 2.46 tons of VOC. The Operating Permit will include emission limits and work practice standards along with monitoring and recordkeeping requirements to ensure the facility complies with the applicable air quality regulations. Among other items, the conditions include provisions derived from 25 Pa. Code § 129.52.

06-05156: Century Cabinetry of Leesport, Inc. (130 East Wall Street, Leesport, PA 19533) to issue a State-Only Operating Permit for the operation of their wood furniture surface coating facility in Leesport Borough, **Berks County**. Actual emissions from the facility are estimated to be 0.9 tpy of PM, 8.5 tpy of VOCs, 2.1 tpy of a single HAP (2-(2-butoxyethoxy) ethanol), and 2.6 tpy of combined HAPs. The Operating Permit will include emission limits and work practice standards along with monitoring and recordkeeping requirements to ensure the facility complies with the applicable air quality regulations. Among other items, the conditions include provisions derived from 25 Pa. Code § 129.52.

01-05016: Specialty Granules Inc. (1455 Old Waynesboro Road, Blue Ridge Summit, PA 17214-0914) for the rock crushing operation at the Charmian Quarry in Hamiltonban Township, **Adams County**. This is for renewal of the facility's State-Only Operating Permit. The facility's actual 2017 annual emissions are: PM₁₀ 66.8 tons, NO_x 29.7 tons, CO 25.0 tons and VOC 1.6 ton. The Operating Permit will include emission limits and work practice standards along with monitoring, recordkeeping, and reporting requirements to ensure the facility complies with the applicable air quality regulations. The rock crushers and material handling system are subject to 40 CFR Part 60, Subpart OOO.

Department of Public Health, Air Management Services: 321 University Avenue, Philadelphia, PA 19104.

Contact: Edward Wiener, Chief—Telephone: 215-685-9426.

OP17-000067: DGM Polishing & Finishing (8301 Torresdale Ave, Philadelphia, PA 19136) for the operation of an electroplating and polishing facility in the City of Philadelphia, **Philadelphia County**. The facility's air emission sources include a decorative hexavalent chrome plating tank.

The operating permit will be issued under the Pennsylvania Code Title 25, Philadelphia Code Title 3 and Air

Management Regulation XIII. Permit copies and other supporting information are available for public inspection at AMS, 321 University Avenue, Philadelphia, PA 19104. For further information, contact Edward Wiener at (215) 685-9426.

Persons wishing to file protest or comments on the previous operating permit must submit the protest or comments within 30 days from the date of this notice. Any protests or comments filed with AMS must include a concise statement of the objections to the permit issuance and the relevant facts upon which the objections are based. Based upon the information received during the public comment period, AMS may modify the operating permit or schedule a public hearing. The hearing notice will be published in the *Pennsylvania Bulletin* and a local newspaper at least thirty days before the hearing.

COAL AND NONCOAL MINING ACTIVITY APPLICATIONS

Applications under the Surface Mining Conservation and Reclamation Act (52 P.S. §§ 1396.1—1396.19a); the Noncoal Surface Mining Conservation and Reclamation Act (52 P.S. §§ 3301—3326); The Clean Streams Law (35 P.S. §§ 691.1—691.1001); the Coal Refuse Disposal Control Act (52 P.S. §§ 30.51—30.66); and The Bituminous Mine Subsidence and Land Conservation Act (52 P.S. §§ 1406.1—1406.20a). Mining activity permits issued in response to such applications will also address the applicable permitting requirements of the following statutes: the Air Pollution Control Act (35 P.S. §§ 4001—4015); the Dam Safety and Encroachments Act (32 P.S. §§ 693.1—693.27); and the Solid Waste Management Act (35 P.S. §§ 6018.101—6018.1003).

The following permit applications to conduct mining activities have been received by the Department. A copy of the application is available for inspection at the district mining office indicated before each application. Notices of requests for 401 Water Quality Certifications are included in individual application notices, as noted.

Written comments or objections, or requests for an informal conference, or a public hearing, as applicable, on a mining permit application and request for Section 401 water quality certification application may be submitted by any person or any officer or head of any Federal, State or local government agency or authority to the Department at the address of the district mining office indicated before each application within 30 days of this publication, or within 30 days after the last publication of the applicant's newspaper advertisement as provided by 25 Pa. Code §§ 77.121—77.123 and 86.31—86.34.

Written comments or objections regarding a mining permit application should contain the name, address and telephone number of persons submitting comments or objections, application number and a statement of sufficient detail to inform the Department on the basis of comment or objection and relevant facts upon which it is based.

A request for an informal conference or a public hearing, as applicable, on a mining permit application, as provided by 25 Pa. Code § 77.123 or § 86.34, must contain the name, address and telephone number of the requestor; the application number; a brief summary of the issues to be raised by the requestor at the conference; and a statement whether the requestor desires to have the conference conducted in the locality of the proposed mining activities.

When an NPDES number is listed, the mining activity permit application was accompanied by an application for

Roy, Ranjan

From: Roy, Ranjan
Sent: Friday, July 27, 2018 12:36 PM
To: 'Matthew Watson'
Cc: Bubbenmoyer, David
Subject: Proposed permit Renewal, Baghouses Source and Control IDs, NSPS Subpart OOO, SMOP 01-05016
Attachments: COLLECTOR LOCATIONS & Install Dates.xlsx; 1192717[01-05016]_Pending.pdf

Matt,

Attached please find the proposed subject operating permit No. 01-05016 renewal for your review and acceptance. Please let us know that we may proceed to have it issued; appreciate if you let us know at your earliest convenience.

Should you have any comments or concerns, please feel free to send an e-mail to me.

FYI, Pa. Bulletin notice was published on 7/14/18 and it has 30-day comment period.

Also, I am required to witness operation and you want us to walk around the baghouses to try to identify and link-up the excel file list of controls' facility ID with DEP IDs. Please let us have two days at your convenience. In the meantime feel free to read this list in Section H Item #009, Page 84-85, and go on connecting the Source ID and Control ID.

Thank you.

Sincerely,

Ranjan Roy | AQE

Department of Environmental Protection

Southcentral Regional Office

909 Elmer ton Avenue | Harrisburg, PA 17110

Phone: 717.705.4878 | Fax: 717.705.4830

www.depweb.state.pa.us

From: Matthew Watson [mailto:matthew.watson@specialtygranules.com]

Sent: Tuesday, July 17, 2018 9:09 AM

To: Roy, Ranjan <rroy@pa.gov>

Subject: Re: FW: Baghouses, NSPS Subpart OOO, SMOP 01-05016

Good, morning,

I got your phone message. We have been working to get this correct but the attached is the best we have been able to do. If possible, lets schedule your site tour so that Jim Izer and myself can accompany you so we can get this ironed out once and for all so we are all able to recognize the equipment by the referenced number that both PADEP and SGI call out on the sheets.

As always contact me with questions and I will do my best to figure things out in a timely manner.

~Matt

Matthew R. Watson

Environmental Coordinator



Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

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Good Work! Can we add a "Source ID" column, may say 'Yes' where applicable? Thanks again,

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Subject: FW: Baghouses, NSPS Subpart OOO, SMOP 01-05016

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Ranjan

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Sent: Wednesday, July 11, 2018 3:11 PM

To: Roy, Ranjan <rroy@pa.gov>

Subject: Re: Baghouses, NSPS Subpart OOO, SMOP 01-05016

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I am off tomorrow but will proceed with compiling the information to get you the complete listing.

Thanks,



pennsylvania

DEPARTMENT OF ENVIRONMENTAL
PROTECTION

MEMO

FROM Ranjan Roy, AQE *Roy*
WRW 7/27/18
TO William R. Weaver, Regional Manager
Air Quality Program
THRU Tom Bianca, PE, Environmental Engineering Manager *TB 7-25-18*
West Permitting Section
DATE July 17, 2018
RE Specialty Granules, LLC
Rock Crushing into Fines, Charmian & Pitts Quarries
SMOP No. 01-05016 Renewal
Hamiltonban Township, Adams County

Background/Facility Description

On August 2, 2017, Specialty Granules LLC (SGI), submitted an application for a State Only Operating Permit (SOOP) renewal for their Charmian & Pitts Quarries. The crushed rock is used onsite to make fines that are shipped to another facility for shingles coating. The fines are golden sand or green color from the green mountain rocks.

The facility's Source IDs, Designations, and Control Devices are in Table 1 below:

TABLE 1: SOURCES, CONTROLS

Source ID	Description	Controls
<u>Sources In</u>	<u>Current Operating Permit:</u>	--
015	DRYER PLANT (400)	-- C15C
051	HEADLAP GRANULE PLANT (HGP), [3 CONE CRUSHERS, 250 TPH EACH]	C051A, C051B, C051C, and C051D
199	OVERLAND CONVEYOR	C000
200B	SECONDARY CRUSHER (NORDBERG OR EQUIVALENT)	C000
201	PRIMARY JAW CRUSHER (FULLER OR EQUIVALENT)	C000
202	FEEDERS 80, 85 & 90	C000

208	STAND-BY/OLD ROTARY DRYER PLANT	D08
209	MILL FEED STORAGE SILOS	D08
210	"A" MILL - ELEVATORS & SCREENS	D10 and C106
210A	"A" MILL- N. SIDE	D12
211	"B" MILL - ELEVATORS & SCREENS	D11 and C106
211B	"B" MILL-S. SIDE	D12
213B	STORING COLORED GRANULES	D10
215A	STORING GRANULES	D10
216	G11 DEDUSTING AND OILING	D16 and F04
217	CONVEYOR (987)	D02, D04, D09, and C106
218	GYRADISC (310) & SCREENING	D02 and D04
219A	REMCO VSI CRUSHER 3	D09
302	GRANULE STORAGE/TRANSFER	C104 and C105
303	ROTARY PREHEATER 1	C105
304	ROTARY PREHEATER 2	C105
305A	COLORING PLANT SYSTEM 1	G01
308A	COLORING PLANT SYSTEM 4	G02
309A	COLORING PLANT SYSTEM 2	G03
311A	COLORING PLANT SYSTEM 3	G05
317	WASTE STORAGE SYSTEM	H04
401B	NATURAL COLOR GRANULES LOADING	H04, C104, and C105
402A	SECONDARY CRUSHER, REMCO, 250 TPH	H01A
403	WASTE FINES DISPOSAL SYSTEM	H02

420	UNDERSIZE MATERIAL PROCESS PLANT, 75 T CLASSIFIER	C420A and C420B
500	HAUL ROAD	C000
510	INTRMEDIATE PLANT CRUSHER & SCREENIN (315), NORDBERG OR EQUI	J01
<u>New Source:</u>		
016	Engine Generator, standby emergency unit, 601 hp, build date 12/22/2016	No add on control

Section H includes descriptions for a few sources and insignificant sources.

Emissions and Control:

Emissions:

The primary emissions from the facility are particulate matter from the crushing operations. The NO_x and CO emissions are from combustion sources (Sources 015, 051, 208, 303, 304, and 305A). They combust natural gas and use No. 2 oil as backup fuel.

The emission inventory in AIMS 2015, 2016, and 2017 are in Table 2 below:

TABLE 2: EMISSIONS, AIMS 2015, 2016, and 2017

Pollutants	Year		
	2015	2016	2017
	Tons Per Year (tpy)	tpy	tpy
PM ₁₀	58.39	64.89	66.82
PM _{2.5}	21.43	23.72	24.46
NO _x	24.19	27.22	29.72
CO	20.32	22.86	24.96
VOC	1.33	1.5	1.63
SO _x	0.045	0.0	0.0

Controls:

The above Table 1 includes the control IDs for each source.

- The Wet Suppression System C000 is employed at the following crushers, sources, and locations:
 - Source 201, Jaw Crusher, primary crushing operation.
 - Source 200B, Secondary Crusher.
 - Source 199, Overland conveyor
 - Source 202, Feeders 80, 85 & 90
 - Fugitive road dust

- All other sources and operations are controlled by various baghouses referenced in Table 1. They include the following material processing systems:
 - Source 015, Dryer Plant (400)
 - Source 051, Headlap Granule Plant (HGP), [3 Cone crushers, 250 tph each]
 - Source 208, Standby/Old Rotary Dryer Plant
 - Source 420, Undersize Material Processing Plant, 75 T Classifier
 - Source 510, Intermediate Plant Crusher & Screening (315)

Regulatory Analysis

The site is not located in an Air Basin. The sources and controls are subject to 25 Pa. Code; which includes the conditions for the fugitive emissions, malodor, and visible emissions. The Section C Condition #018 requires the permittee to operate and maintain the emission sources and air cleaning devices in accordance with the manufacturer's general recommendation and good air pollution control practices. Also, Section C Condition #019 requires the facility to record the pressure drops across all particulate matter control devices.

Section D Source 016 is an emergency generator, it is subject to fuel sulfur limit as per 25 Pa. Code §123.22(a).

The specific Section E group level State Only regulatory requirements are as follows:

- Group G01: It includes conditions for "A" and "B" Mills and conveyors (Sources 210, 210A, 211, 211B, and 217).
- Group G02: The State only requirements are retained from the previous permit and the NSPS Subpart OOO conditions are transferred to a new Group G05.
- Group G03: It includes conditions for Rotary Preheaters 1 and 2 (Sources 303 and 304).

Federal Regulations, NSPS: The New Source Performance Standards apply to dryers, crushing operations, and engines, as follows:

- Group G04 sources are subject to Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries. The requirements are transferred from the previous operating permit.
- Group G05 sources are subject to Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. The requirements are from the previous operating permit Group G02 and are revised to include the Subpart 3O Tables 2 or 3 specific control devices.
- Source 016, Engine: The emergency engine-generator has the build date of 12/22/2016, it is EPA Tier 2 certified. The EPA family No. is GCPXL12.5NYS. The engine is subject to NSPS Subpart IIII – Standard of Performance for Stationary Compression Ignition Internal Compression Engine. The requirements are included in this permit. The applicable requirements are included in Section D, Page 25. The emergency generator will be operated at around 202 kilowatts (kw) and considerably less than its maximum achievable 601 horse power (hp). The applicable §60.4205(b) and emissions Table are for the engine-generator rated between 130 kw and 450 kw (170-600 hp) emissions.

Miscellaneous

A 263 tph portable Metso crusher is at the site, owned and operated by Mellott Company as per GP3/11-01-03038 issued to Mellott on May 16, 2017. Mellott reported the crusher started operation on April 3, 2017.

Operating Permit Revisions

The current SMOP was issued on March 20, 2013. An administrative amendment to the operating permit was issued on April 15, 2014. The permit nominally expired on March 31, 2018. The permit renewal application was determined to be administratively complete on August 3, 2017.

RFD: During the term of the previous operating permit, two RFDs were issued. These are referenced in Section H of this operating permit. The RFDs are as follows:

- RFD #0898 approved 2/6/14 for a Control ID H03 replacement.
- RFD #1228 approved on 9/10/15 for Source ID 216, Dedusting system, 5B Conveyor replacement.

The following changes are proposed to the permit:

- Permit Page 1, updated the “Responsible Official” and “Permit Contact Person”.
- Section A: Created a new Source ID 016, Engine Generator.
- Section C:
 - o Condition #008, Deleted and moved the updated §123.22, new sulfur limits of 0.05 % weight basis to Section D Source 016 Condition #002.
 - o Condition #014, updated malfunction reporting telephone numbers.
- Section D: Includes the CI engine generator’s NSPS 4I requirements.
- Section E:
 - o Revised Group G02 to remove NSPS Subpart OOO requirement, and
 - o Included a new Group G05 for the revised Subpart OOO.
- Section H:
 - o Updated Item #001,
 - o Updated Item #005 into #005 and #006. Put the renewal references in Item #005,
 - o Retained the equipment list as Item #006,
 - o Created RFDs list in Item #007,
 - o Added Item #008, Emergency Generator, and
 - o Added Item #009, List of controls subject to Subpart OOO pre and post 4/22/08.

Compliance History

The facility was inspected by Mr. Michael Anonia of the Department's York District on April 21, 2016. No violations were reported. There were no recent NOV's issued to the site.

There are no requirements to perform a stack test during a permit renewal. For the latest PA 01-05016P to install Source ID 420, the one-time source testing on its baghouse was performed on November 21 and 22, 2013. The test results were reviewed by the Department's Source Testing Section and as per their Memo dated May 20, 2014, the source met the standard and the results were acceptable.

There are no confidential documents in this permit application.

Municipal and Public Notifications

The Compliance Review Form was received on August 2, 2017. The Municipal Notices were delivered to County and Township offices on July 10, 2017. The draft *Pennsylvania Bulletin* notice is attached for review and approval.

I recommend submitting the proposed permit for public comments.

Cc: Permits
York District
SCRO, B2, No. 01-05016 File

COLLECTORS				
SGI Name	PADEP ID #	Install Date	*8/31/1983 thru 4/22/08 **After 4/22/08	Location of Differential
Intermediate & Mill				
Cart Day H	C015C H02	2/1/2004	*	5 & 1/2 Building
Astec		5/1/2006	*	Top of Dryer Building
Carter Day D		6/1/1982	N/A	Waste Unit Back Door 1st Floor
Carter Day C		2/2/2015	**	19 & 58 Transfer on Frame
Roll Collector		4/28/1997	*	Down From 58 Conveyor on Leg
Carter Day G		5/25/1992	*	Dedusting Building by Conveyor to Coloring Control Room
Johnson March A	D10	12/1/1974	N/A	Behind Mill toward Store Room up steps on wall in Room
Johnson March B	D11	12/1/1974	N/A	Behind Mill Toward C-3 up steps inside Room in closet
Old Dryer		8/25/1997	*	Sampling Room by control room on wal
BH 500		12/1/2009	**	Control Screen Control Room
BH 510		4/19/2012	**	Control Screen Control Room
Carter Day F		12/1/1985	*	Intermediate Shack by 340 VSI
Single Pulse King	D02	9/1/1980	N/A	Intermediate Shack by 340 VSI
Double Pulse King	D04	9/1/1980	N/A	Old MCC Shack on Wall Downstairs of VSI
Carter Day A		1980	N/A	G-11 Loadout Floor on Frame Post
BH 530		7/1/2013	**	Back of Undersize Plant on Framework
Classifier		7/1/2013	**	Undersize Plant Left Rear Level 2
Head-Lap Plant				
DC 102	C051B	1/1/2006	*	Back of Headlap Eye level on Frame Post
DC 101	C051A	1/1/2006	*	Uphill side of Dryer
DC 103	C051C	1/1/2006	*	Lower Side of Dryer
DC 104	C051D	1/1/2006	*	Top of Headlap Loadout on Loadout floor
Coloring Plant				
DC 440	C104	8/1/2007	*	Pigment Storage on Wall behind Yellow fence
DC 445	C105	8/1/2007	*	Pigment Storage on Wall behind Yellow fence
Carter Day E	H04	12/1/1983	*	Down Tracks on left then right on steel post
Number 1	G05	9/28/1998	*	Front of Coloring toward Headlap; Post on Baghouse
Number 2	G03	9/28/1998	*	Front of Coloring toward Office; Post on Baghouse
Scrubber Collector		1982	N/A	PLC Screen in Office
988/989 Conv. Coll.		12/31/2016	**	On collector platform
Number 3	G01	1/1/1990	*	left side of haul in on concrete wall

Roy, Ranjan

From: Matthew Watson <matthew.watson@specialtygranules.com>
Sent: Tuesday, July 17, 2018 9:09 AM
To: Roy, Ranjan
Subject: Re: FW: Baghouses, NSPS Subpart OOO, SMOP 01-05016
Attachments: ~WRD000.jpg; COLLECTOR LOCATIONS & Install Dates.xlsx

Good, morning,

I got your phone message. We have been working to get this correct but the attached is the best we have been able to do. If possible, let's schedule your site tour so that Jim Izer and myself can accompany you so we can get this ironed out once and for all so we are all able to recognize the equipment by the referenced number that both PADEP and SGI call out on the sheets.

As always contact me with questions and I will do my best to figure things out in a timely manner.

~Matt

Matthew R. Watson

Environmental Coordinator



Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

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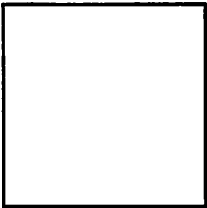
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~Matt

Matthew R. Watson
Environmental Coordinator



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On Tue, Jul 10, 2018 at 1:34 PM Roy, Ranjan <rroy@pa.gov> wrote:

Hello Matt, If you please make ""Words document in a Tabular list"" for below two compilation, with Source ID and Control ID, Year installed, Nameplate date, etc., it will help me differentiate better. Thanks,

Sincerely,

Ranjan
Ranjan Roy | AQE
Department of Environmental Protection
Southcentral Regional Office
909 Elmer ton Avenue | Harrisburg, PA 17110
Phone: 1.717.705.4878 | Fax: 1.717.705.4830

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Number 3	G01	1/1/1990	*	left side of haul in on concrete wall

Roy, Ranjan

From: Roy, Ranjan
Sent: Monday, June 04, 2018 8:13 AM
To: 'Matthew Watson'
Subject: RE: CAT C13 Engine, 601 hp, Subject to NSPS Subpart IIII

Matt,

Good Morning and Thank you.

For the new 2016 Caterpillar C13 engine-generator, your 6/1/18 e-mail has the required information. It is good to know that your standby generator load in the worst case scenario is only 202 kilowatts.

The nameplate rating of the engine is 601 hp. It is a CI RICE and it will be subject to NSPS Subpart IIII. I will assign a Source ID and include the requirements

Question, what is SGI (company) ID for this engine generator?

Thanks,

Sincerely,
Ranjan
Ranjan Roy | AQE
Department of Environmental Protection
Southcentral Regional Office
909 Elmer ton Avenue | Harrisburg, PA 17110
Phone: 1.717.705.4878 | Fax: 1.717.705.4830
www.dep.state.pa.us

From: Matthew Watson [mailto:matthew.watson@specialtygranules.com]
Sent: Monday, June 04, 2018 6:49 AM
To: Roy, Ranjan <rroy@pa.gov>
Subject: Re: CAT Engine Information

That was to be 170 horsepower. I should have the calculations for that today. Sorry for the confusion.

~Matt

Matthew R. Watson
Environmental Coordinator
Charmian Plant
Blue Ridge Summit, PA
Direct: (717) 794-3303
Cell: (717) 729-5028
Fax: (717) 794-5248

From: Matthew Watson [mailto:matthew.watson@specialtygranules.com]
Sent: Friday, June 01, 2018 2:37 PM
To: Roy, Ranjan <rroy@pa.gov>
Subject: CAT Engine Information

Good afternoon, Please see the attached documents for the requested information, I highlighted the information to make it more easily visible. The engine is a Tier 2 / Stand-By Use Only, the EPA Family is GCPXL12.NYS and I have

attached the certification as well. I will contact you with more information about the kilowatts and horsepower. From running the numbers our electricians and mechanics have come up with a worst case scenario. At that point we would be operating at 202 kw. As soon as they have something in writing showing how they arrived at this I will forward that to you as well. Have a good weekend and please feel free to contact me with anything else you may require.

Thanks!

~Matt

Matthew R. Watson

Environmental Coordinator

Charmian Plant

Blue Ridge Summit, PA

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Fax: (717) 794-5248

Roy, Ranjan

From: Matthew Watson <matthew.watson@specialtygranules.com>
Sent: Monday, June 04, 2018 1:02 PM
To: Roy, Ranjan
Subject: Re: CAT C13 Engine, 601 hp, Subject to NSPS Subpart IIII

I received this from the Electricians here at the plant for the generator.

In the event the generator is needed, the operation is as follows:

Once power is lost the generator will automatically start up.
If water levels dictate the need to pump, one 75hp pump will start.
If water levels continue to elevate, a second 75hp pump will then start.
If the second pond level begins to rise then a 10hp pump will then start.

A 75HP motor is rated at 55950watts
A 10HP motor is rated at 7460
A total of 119,360 watts may be running, or 120KW

~Matt

Matthew R. Watson

Environmental Coordinator



Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

On Mon, Jun 4, 2018 at 9:24 AM, Roy, Ranjan <rroy@pa.gov> wrote:

Thanks, I have created a new source ID 016 for this engine, because it in sequence with dryer 015, they combustion sources. Regards

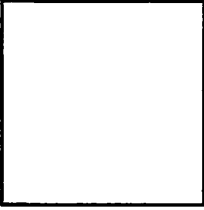
From: Matthew Watson [mailto:matthew.watson@specialtygranules.com]
Sent: Monday, June 04, 2018 9:23 AM
To: Roy, Ranjan <rroy@pa.gov>
Subject: Re: CAT C13 Engine, 601 hp, Subject to NSPS Subpart IIII

The ID number is 12132-000 and commonly referred to as the "CAT standby unit"

~Matt

Matthew R. Watson

Environmental Coordinator



Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

On Mon, Jun 4, 2018 at 8:13 AM, Roy, Ranjan <rroy@pa.gov> wrote:

Matt,

Good Morning and Thank you.

For the new 2016 Caterpillar C13 engine-generator, your 6/1/18 e-mail has the required information. It is good to know that your standby generator load in the worst case scenario is only 202 kilowatts.

The nameplate rating of the engine is 601 hp. It is a CI RICE and it will be subject to NSPS Subpart IIII. I will assign a Source ID and include the requirements

Question, what is SGI (company) ID for this engine generator?

Thanks,

Sincerely,

Ranjan
Ranjan Roy | AQE
Department of Environmental Protection
Southcentral Regional Office

Roy, Ranjan

From: Matthew Watson <matthew.watson@specialtygranules.com>
Sent: Friday, June 01, 2018 2:37 PM
To: Roy, Ranjan
Subject: CAT Engine Informaiton
Attachments: EPA Family Code - GCPXL12.NYS.pdf; Tier 2 - Stand-By Use Only.pdf; Cert_GCPXL12_2E5NYS_008.pdf

Good afternoon,

Please see the attached documents for the requested information, I highlighted the information to make it more easily visible. The engine is a Tier 2 / Stand-By Use Only, the EPA Family is GCPXL12.NYS and I have attached the certification as well.

Kip I will contact you with more information about the kilowatts and horsepower. From running the numbers our electricians and mechanics have come up with a worst case scenario. At that point we would be operating at 202 Kilo-Watt and 1070 Horse-power. As soon as they have something in writing showing how they arrived at this I will forward that to you as well.

Have a good weekend and please feel free to contact me with anything else you may require.

Thanks!

~Matt

Matthew R. Watson

Environmental Coordinator



Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248

6/1/2018

Standard Industries Mail - Re: Fwd: Caterpillar Genset Info Request



Matthew Watson <matthew.watson@specialtygranules.com>

Re: Fwd: Caterpillar Genset Info Request

1 message

DHoffman@clevelandbrothers.com <DHoffman@clevelandbrothers.com>

Fri, Jun 1, 2018 at 8:50 AM

To: matthew.watson@specialtygranules.com

Cc: DSenft@clevelandbrothers.com, zach.royer@specialtygranules.com

Matthew, See your revised attachment. I highlighted the generator rating even though it isn't spelled out directly, the generator is Tier 2 / or Standby use only. You can also refer to the "Rating #" on the chart below. Feel free to give me a call with any questions.

Thank you,

Dustin Hoffman
Account Manager
Energy & Transportation
Cleveland Brothers Equipment Company, Inc.
(717) 418-2583

Engine Reference Information		
Description	Measure	Data
FL Static/FT Static Fuel Settings	in	0.457 / 0.445
Fuel Valve Part Number		
Unit Injector Part Number		2530608
Timing Dimension Field Service	in	
Timing Dimension Factory		
Torque Control Group Number		Change Level:
Fuel Pump/Gov Grp Part Number		2559368
Fuel Pump Type		EUI
Flyweight Part Number/Attitude		
Turbo Part No and Model		2912127 / GTA500SBS1.6
Advertised Power / Governor Speed		601hp 1,800 RPM
Compression Ratio		15.8
Torque Rise Cam Part Number		
Manifold Type		DRY
Engine Flash File Part Number		4951595
Rating Number		2
Flash File Change Number		
ASM Flash File Part Number		
ISM Flash File Part Number		
Advisor Flash File Part Number		
Secondary Module Flash File Part Number		
Messenger Flash File Part Number		
Tandem Software Flash File Part Number		
Governor Type		ELEC

From: Doug Senft/CBE/CBEQCERT
To: Dustin Hoffman/CBE/CBEQCERT@CBEQ-NOTES
Date: 05/31/2018 04:31 PM
Subject: Fwd: Caterpillar Genset Info Request


CATERPILLAR

Engine Emissions Data

For Emissions / Certification feedback and questions, please submit a ticket via our [ERC Request Portal](#)

This emission data is Caterpillar's best estimate for this rating. If actual emissions are required then an emission test needs to be run on your engine.

Serial Number (Machine)	
Serial Number (Engine)	PW300182
Sales Model	C13
Regulatory Build Date	12/22/2016
Interlock Code Progression	No Interlock Code Progression
As Shipped Data	
Engine Arrangement Number	5066872
Certification Arrangement	
Test Spec Number	OK9333
Regulatory Status	EPA Emergency Stationary @ Constant Speed
Labeled Model Year	2016
EPA Family Code	GCPXL12.5NYS
Flash File	4951595
Flash File Progression	4951595
CORR FL Power at RPM	620 HP (462.0 KW)1800 RPM
Advertised Power	601 HP 1,800RPM
Total Displacement	12.5

This is not an official emission certificate. This is for emission data information only.

[Need emission replacement label? Click here!](#)

Caterpillar Confidential: **Green**
 Content Owner: Commercial Processes Division
 Web Master(s): [PSG Web Based Systems Support](#)
 Current Date: 7/7/2017 8:22:15 AM
 © Caterpillar Inc. 2017 All Rights Reserved.
[Data Privacy Statement](#).

Roy, Ranjan

From: Roy, Ranjan
Sent: Thursday, May 31, 2018 9:15 AM
To: 'Matthew Watson'
Subject: RE: Engine Generator

Matt,

Good Morning, Mellott e-mailed the updated reference to GP3 /GP11 and its usage at your site. Thinking if you have accounted for their equipment emissions in 2017, and you will do it for 2018?

Regards,

Ranjan

717-705-4878

From: Matthew Watson [mailto:matthew.watson@specialtygranules.com]
Sent: Wednesday, May 30, 2018 3:23 PM
To: Roy, Ranjan <rroy@pa.gov>
Subject: Engine Generator

Good afternoon, I received your phone message about the generator install. I will gather the requested information and get it to you. Also, I will have our quarry foreman touch base with the Mellott Company to ensure you get a timely response from them on the requested information. Thanks,

~Matt

Matthew R. Watson

Environmental Coordinator

Charmian Plant

Blue Ridge Summit, PA

Direct: (717) 794-3303

Cell: (717) 729-5028

Fax: (717) 794-5248



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2016 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT


OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Caterpillar Inc.**
(U.S. Manufacturer or Importer)

Certificate Number: **GCPXL12.5NYS-008**

Effective Date:
07/10/2015

Expiration Date:
12/31/2016


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/10/2015

Revision Date:
N/A

Model Year: **2016**

Manufacturer Type: **Original Engine Manufacturer**

Engine Family: **GCPXL12.5NYS**

Mobile/Stationary Indicator: **Stationary**

Emissions Power Category: **225<=kW<450**

Fuel Type: **Diesel**

After Treatment Devices: **No After Treatment Devices Installed**

Non-after Treatment Devices: **Electronic Control, Smoke Puff Limiter, Engine Design Modification**

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

August 3, 2107

Mr. Matthew R. Watson
Specialty Granules LLC
PO Box O
Blue Ridge Summit, PA 17214-0914

Re: Acceptance Letter
Specialty Granules/Charmian & Pitts Quarries
OPERATING PERMIT NUMBER: 01-05016
APS ID# 560120, AUTH ID# 1192717
Hamiltonban Township, Adams County

Dear Mr. Watson:

The Department of Environmental Protection (DEP) has reviewed the above referenced application for completeness. The completeness review is the first step in a series of reviews conducted by DEP.

The Department has determined that the application package contains sufficient detail to enable DEP to conduct the technical review, and has been accepted for that purpose.

This is not a final action by the Department on this application. The completeness review is the first in a series of reviews conducted by DEP. The application will now move to the technical review stage of the permit review process. To follow your application through the review process, please visit *eFACTS on the Web* at:

<http://www.ahs.dep.pa.gov/eFactsWeb/default.aspx>.

I hope you find this information helpful in understanding the permit review process. If you have additional questions about your application, please contact Virendra Trivedi at 717.705.4863 and refer to Application No. 560120, and Authorization No. 1192717.

Sincerely,

William R. Weaver

William R. Weaver
Air Quality Program Manager

cc: SCRO, 01-05016, B2
Altoona District



July 31st, 2017



Pennsylvania Dept. of Environmental Protection
Air Quality Program – Southcentral Regional Office
Attn: William Weaver, Program Manager
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Re: Renewal of Air Quality Permit - #01-5016

Dear Mr. Weaver,

Please find the enclosed renewal application for Air Quality Permit # 01-5016 for Specialty Granules, LLC and the check for \$375. You will also find information for the addition of a Caterpillar Model C13 generator at the SGI Charmian plant.

Should you require additional information please feel free to contact me.

Respectfully,

Matthew R. Watson
Environmental Coordinator
SGI - Charmian Plant
Direct: 717-794-3303
Cell: 717-729-5028

Enclosures

Please read instructions carefully before completing this application.



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF AIR QUALITY

STATE-ONLY PERMIT APPLICATION

FOR OFFICIAL USE ONLY

State Only OP Number: 01-05016Reviewed by: R RoyDate: 12-18-17

Comments: _____

Section 1 - General Information

1.1 Application Type

Type of permit for which application is made: (Check one)

☐ Initial☒ Renewal Operating Permit No. 01-05016☐ Application Revision

RECEIVED

AUG 02 2017

DEP SOUTHCENTRAL REGION
AIR QUALITY

1.2 Plant Information

Federal Tax ID: 22-3807370 Firm Name: SPECIALTY GRANULES LLC
/CHARMIAN
 Plant Code: 01 Plant Name: SPECIALTY GRANULES - CHARMIAN
& PITTS QUARRIES
 NAICS Code: 327992 SIC Code: 3295
 Description of NAICS Code: Ground or Treated Mineral and Earth Manufacturing
 Description of SIC Code: Manufacturing - Minerals, Ground Or Treated
 County: Adams Municipality: Hamiltonban Township
 Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 Horizontal Reference Datum: North American Datum of 1983
 Horizontal Collection Method: Unknown
 Reference Point: Plant entrance (general) - The general entrance to a plant

1.3 Contact Information

Name: MATTHEW R. WATSON Title: ENVIRONMENTAL COORDINATOR
 Address: PO BOX 0
BLUE RIDGE SUMMIT, PA 17214-0914
 Telephone Number: (717) 794-3303
 Email Address: mwatson@specialtygranules.com

1.4 Certification of Truth, Accuracy and Completeness

Please read instructions carefully before completing this application.

Note: This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete.

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

(Signed)

Date:

7-26-2017

Name (Typed): Justin P. Dunlap

Title: President

2.1 Potential Emission Estimates for the Site

[illegible]

2.2 Facility Type

If no, go to Section 3, “Site Inventory”.

IMPORTANT: Note that all Synthetic Minor Facilities must be able to meet the proposed restriction(s) and/or limitation(s) immediately upon the submission of this application. By signing the Certification of Compliance in Section 13 of this application, the facility for which a Synthetic Minor Status is proposed will be deemed a Synthetic Minor Facility according to the restriction(s) and/or limitation(s) proposed upon receipt of the application by the Department, unless the Department determines that the facility is unable to meet the Synthetic Minor requirements at a later date.

Please read instructions carefully before completing this application.

2.3 Synthetic Minor Facility Information (to be completed by all facilities seeking Synthetic Minor Status)

Synthetic Minor Status for this facility can be taken at the: Source Level ☐ AND/OR Site Level ☐

If limitation(s) and/or restriction(s) can be taken at the site level (for all sources within this facility), complete the following questions, otherwise please go on to Section 3, "Site Inventory".

Synthetic Minor Status for the Entire Site is achievable through the following restrictions: (Please check all that apply and describe in detail what is/are proposed):

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production/Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Note: If Section 2.3 is completed and there are no additional restrictions proposed at the source level, the applicant can omit Sub Sections 5, 6, and 7 in Sections 5, 6, and 7 for all sources in this permit application.

Please read instructions carefully before completing this application.

2.4 Compliance Method for the Site (for Synthetic Minor Facilities only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 2.3.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s) listed in Section 2.3:
- b. Describe what is to be reported in the compliance report:
- c. Reporting start date:
- d. Indicate the frequency for submitting compliance report as explained above:

Please read instructions carefully before completing this application.

Section 3 - Site Inventory

List all air pollution sources, control equipment, emission points and fuel material locations at this site. Duplicate this page as necessary. For renewals, only list sources not included in current permit.

Unit ID No.	Company Designation	Unit Type
015	Dryer Plant (400)	Process
051	Headlap Granule Plant (Hgp), [3 Cone	Process
199	Overland Conveyor	Process
200B	Secondary Crusher (Nordberg Or Equivalent)	Process
201	Primary Jaw Crusher (Fuller Or Equivalent)	Process
202	Feeders 80, 85 & 90	Process
208	Stand-By/Old Rotary Dryer Plant	Process
209	Mill Feed Storage Silos	Process
210	'A' Mill - Elevators & Screens	Process
210A	'A' Mill- N. Side	Process
211	'B' Mill - Elevators & Screens	Process
211B	'B' Mill-S. Side	Process
213B	Storing Colored Granules	Process
215A	Storing Granules	Process
216	G11 Dedusting And Oiling	Process
217	Conveyor (987)	Process
218	Gyradisc (310) & Screening	Process
219A	Remco Vsi Crusher 3	Process
302	Granule Storage/Transfer	Process
303	Rotary Preheater 1	Process
304	Rotary Preheater 2	Process
305A	Coloring Plant System 1	Process
308A	Coloring Plant System 4	Process
309A	Coloring Plant System 2	Process
311A	Coloring Plant System 3	Process
317	Waste Storage System	Process
401B	Natural Color Granules Loading	Process
402A	Secondary Crusher, Remco, 250 Tph	Process
403	Waste Fines Disposal System	Process
420	Undersize Material Process Plant, 75 T	Process
500	Haul Road	Process
510	Intrmediate Plant Crusher&Screenin(315),	Process
C000	Water Sprays / Road Wetting	Control Device

Please read instructions carefully before completing this application.

C015C	Astec Baghouse (Dc435)	Control Device
C051A	Hgp: Donaldson Torit Baghouse (Dc101a)	Control Device
C051B	Hgp: Donaldson Torit Baghouse (Dc102a)	Control Device
C051C	Hgp: Donaldson Torit Baghouse (Dc103a)	Control Device
C051D	Hgp: Donaldson Torit Baghouse (Dc104a)	Control Device
C104	Donaldson Torit Baghouse 484rf (No. 4)	Control Device
C105	Donaldson Torit Baghouse 484rf (No. 5)	Control Device
C106	Torit Donaldson 484 Rwf 12 Aw Baghouse	Control Device
C420A	Control, 65,000scfm Donaldson905 Baghouse	Control Device
C420B	Control, 15,000 Scfm Metso Baghouse 276rf12	Control Device
D02	Pulse King M100 Baghouse	Control Device
D04	Pulse King M200 Baghouse	Control Device
D08	Torit Donaldson 484 Rwf 12 Aw Baghouse	Control Device
D09	Carter-Day 276 Rfb	Control Device
D10	Johnson-March (No. 1)	Control Device
D11	Johnson-March (No. 2)	Control Device
D12	Donaldson H Baghouse	Control Device
D16	Torit-Day Baghouse	Control Device
F04	Carter-Day 72rj60	Control Device
G01	Donaldson 3 Baghouse	Control Device
G02	Fisher-Klosterman Venturi	Control Device
G03	Donaldson 2 Baghouse	Control Device
G05	Donaldson 1 Baghouse	Control Device
H01A	Donaldson Torit 484rfwaw12x, 30000cfm	Control Device
H02	Carter-Day D 72rj48	Control Device
H04	Carter-Day 232rf8 (No. 5)	Control Device
J01	Torit Donaldson	Control Device
S015C	Stack, Baghouse C015c	Point of Air Emission
S04	Unspecified Name	Point of Air Emission
S051A	Hgp: Dc101a Stack (T101)	Point of Air Emission
S051B	Hgp: Dc102a Stack (T102)	Point of Air Emission
S051C	Hgp: Dc103a Stack (T103)	Point of Air Emission
S051D	Hgp: Dc104a Stack (T104)	Point of Air Emission
S104	Stack, Donaldson Torit (No. 4)	Point of Air Emission
S105	Stack, Donaldson Torit (No. 5)	Point of Air Emission
S106	Torit Donaldson Stack	Point of Air Emission
S420A	Stack, 65,000 Scfm Donaldson Baghouse	Point of Air Emission
S420B	Stack, 15,000 Scfm Metso Baghouse	Point of Air Emission
T02	Pulse King M100 Stack	Point of Air Emission

Please read instructions carefully before completing this application.

[illegible]

4.1 Source Group Definition

Define groups of source(s) that are subject to one or more applicable requirements that apply to all source(s) in the group.

Group No.	Source ID (for source(s) in this group)
G 01	210, 210A, 211, 211B, 217
G 02	015, 051, 199, 200B, 218, 302, 317, 401B, 403, 420, 510
G 03	303, 304
G 04	015, 051

If there are no changes, check the box to the right.

☒ No changes from current State-Only Operating Permit.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

[illegible]

Please read instructions carefully before completing this application.

Section 5 - Combustion Operational Inventory

(Complete this section for each combustion source in this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new combustion unit listed in Section 3 of this application.

5.1 General Source Information

a. Unit ID:	CAT13	b. Company Designation:	N/A - On-Site; Not Yet Operational
c. Plan Approval or Operating Permit Number:	01-5016		
d. Manufacturer:	Caterpillar	e. Model Number:	C13
f. Source Description:	See Attached Spec Sheet		
g. Rated Heat Input/Throughput:	See Attached Spec Sheet	h. Installation Date:	See Attached Spec Sheet
i. Exhaust Temperature:	Units:	j. Exhaust % Moisture:	k. Exhaust Flow Volume:
See Attached Spec Sheet	See Attached Spec Sheet	See Attached Spec Sheet	See Attached Spec Sheet
			SCFM

5.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
See Attached Spec Sheet	See Attached Spec Sheet	See Attached Spec Sheet	See Attached Spec Sheet	See Attached Spec Sheet

[illegible][illegible]

Please read instructions carefully before completing this application.

5.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

5.5 Limitations on Source Operation (optional)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

5.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 5.5.

a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

b. Describe what is to be reported in the compliance report:

c. Reporting start date: _____

d. Indicate the frequency for submitting compliance report as explained above: _____

Please read instructions carefully before completing this application.

5.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or proposed in Section 5.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

5.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

(Complete this section for each incinerator at this site. Duplicate this section as needed).

6.1 General Source Information

- a. Unit ID: _____ b. Company Designation: _____
- c. Plan Approval or Operating Permit Number: _____
- d. Manufacturer: _____ e. Model Number: _____
- f. Source Description: _____
- g. Rated Heat Input/Throughput: _____ h. Installation Date: _____
- i. Exhaust Temperature: _____ Units: _____ j. Exhaust % Moisture: _____ k. Exhaust Flow Volume: _____ SCFM
- l. Inc. Capacity: _____ Lbs/Hr m. Primary Burner Heat Input: _____ Units _____
- n. Exhaust % CO₂: _____ o. Secondary Burner Heat Input: _____ Units _____
- p. Incinerator Class: _____
- q. Waste Type: _____ r. Waste BTU/Lb: _____

Explain how the exhaust components are configured:

[illegible]

Please read instructions carefully before completing this application.

6.3 Source Classification Code (SCC) Listing for Standard Operation

Fuel/Material	Associated SCC	Max Throughput Rate	Firing Sequence

6.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

6.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year: _____

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

6.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 6.5.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

6.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 6.6, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emission/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

Please read instructions carefully before completing this application.

6.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list source level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 015 b. Company Designation: DRYER PLANT (400)

c. Plan Approval or Operating Permit Number:

d. **Manufacturer:** _____ e. **Model Number:** _____

f. **Source Description:** Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/2006

i. Exhaust Temperature:	Units:	j. Exhaust % Moisture:	k. Exhaust Flow Volume:	SCFM
-------------------------	--------	------------------------	-------------------------	------

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
015	Process	C015C	Control Device	95
C015C	Control Device	S015C	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation

Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	350.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 051 b. Company Designation: HEADLAP GRANULE PLANT (HGP), [3 CONE CRUSHERS, 250 TPH EACH]

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. Source Description: Process _____

g. Rated Heat Input/Throughput: _____ h. Installation Date: _____

i. Exhaust Temperature: _____ Units: _____ j. Exhaust % Moisture: _____ k. Exhaust Flow Volume: _____ SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
051	Process	C051A	Control Device	25
051	Process	C051B	Control Device	25
051	Process	C051C	Control Device	25
051	Process	C051D	Control Device	25
C051A	Control Device	S051A	Point of Air Emission	100
C051B	Control Device	S051B	Point of Air Emission	100
C051C	Control Device	S051C	Point of Air Emission	100
C051D	Control Device	S051D	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	250.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 199
b. Company Designation: OVERLAND CONVEYOR
c. Plan Approval or Operating Permit Number:
d. Manufacturer:
e. Model Number:
f. Source Description: Process
g. Rated Heat Input/Throughput:
h. Installation Date: 06/01/1994
i. Exhaust Temperature: 69 Units: deg F
j. Exhaust % Moisture: 1
k. Exhaust Flow Volume: 1 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
199	Process	C000	Control Device	100
C000	Control Device	Z01	Point of Air Emission	20

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
ROCK AND DUST	3-05-020-06	500.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 200B b. Company Designation: SECONDARY CRUSHER (NORDBERG OR EQUIVALENT)

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. Source Description: Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 06/01/1994

i. Exhaust Temperature: 69 Units: deg F j. Exhaust % Moisture: 1 k. Exhaust Flow Volume: 1 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
200B	Process	C000	Control Device	100
C000	Control Device	Z01	Point of Air Emission	20

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation

Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
ROCK	3-05-020-06	500.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 201

b. Company Designation: PRIMARY JAW CRUSHER (FULLER OR EQUIVALENT)

c. Plan Approval or Operating Permit Number:

d. Manufacturer:

e. Model Number:

f. Source Description: Process

g. Rated Heat Input/Throughput:

h. Installation Date: 07/01/1980

i. Exhaust Temperature: 70 Units: deg F

j. Exhaust % Moisture: 3

k. Exhaust Flow Volume: 1 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
201	Process	C000	Control Device	100
C000	Control Device	Z01	Point of Air Emission	20

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
ROCK	3-05-020-06	500.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- d. Indicate the frequency for submitting compliance report as explained above: _____

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 202 b. Company Designation: FEEDERS 80, 85 & 90

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. Source Description: Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1959

i. Exhaust Temperature: 70 Units: deg F j. Exhaust % Moisture: 3 k. Exhaust Flow Volume: 26,190 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
202	Process	C000	Control Device	100
C000	Control Device	Z01	Point of Air Emission	20

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	120.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 208		b. Company Designation: STAND-BY/OLD ROTARY DRYER PLANT	
<hr/>			
c. Plan Approval or Operating Permit Number:			
<hr/>			
d. Manufacturer:		e. Model Number:	
<hr/>		<hr/>	
f. Source Description: Process			
<hr/>			
g. Rated Heat Input/Throughput:		h. Installation Date: 08/07/1976	
<hr/>		<hr/>	
i. Exhaust Temperature: 180	Units: deg F	j. Exhaust % Moisture: 3	k. Exhaust Flow Volume: 21,038 SCFM
<hr/>		<hr/>	

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
208	Process	D08	Control Device	100
D08	Control Device	T08	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	240.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 209
b. Company Designation: MILL FEED STORAGE SILOS
c. Plan Approval or Operating Permit Number:
d. Manufacturer:
e. Model Number:
f. Source Description: Process
g. Rated Heat Input/Throughput:
h. Installation Date: 01/01/1957
i. Exhaust Temperature: 70 Units: deg F
j. Exhaust % Moisture: 3
k. Exhaust Flow Volume: 873 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
209	Process	D08	Control Device	100
D08	Control Device	T08	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	300.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 210		b. Company Designation: 'A' MILL - ELEVATORS & SCREENS	
c. Plan Approval or Operating Permit Number:			
d. Manufacturer:		e. Model Number:	
f. Source Description: Process			
g. Rated Heat Input/Throughput:		h. Installation Date: 01/01/1957	
i. Exhaust Temperature: 91	Units: deg F	j. Exhaust % Moisture: 3	k. Exhaust Flow Volume: 43,076 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
210	Process	D10	Control Device	50
210	Process	C106	Control Device	50
D10	Control Device	T10	Point of Air Emission	100
C106	Control Device	S106	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	100.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 210A b. Company Designation: 'A' MILL- N. SIDE

 c. Plan Approval or Operating Permit Number: _____
 d. Manufacturer: _____ e. Model Number: _____
 f. Source Description: Process

 g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1957
 i. Exhaust Temperature: 70 Units: deg F j. Exhaust % Moisture: 1 k. Exhaust Flow Volume: 19,800 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
210A	Process	D12	Control Device	100
D12	Control Device	T12	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	80.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID:	211	b. Company Designation:	'B' MILL - ELEVATORS & SCREENS
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c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. Source Description:	Process
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g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1957

i. Exhaust Temperature:	105	Units:	deg F	j. Exhaust % Moisture:	3	k. Exhaust Flow Volume:	39,308	SCFM
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Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
211	Process	D11	Control Device	50
211	Process	C106	Control Device	50
D11	Control Device	T11	Point of Air Emission	100
C106	Control Device	S106	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	130.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

2700-PM-AQ0013 Rev. 8/2009

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 211B b. Company Designation: 'B' MILL-S. SIDE

 c. Plan Approval or Operating Permit Number: _____
 d. Manufacturer: _____ e. Model Number: _____
 f. Source Description: Process

 g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1957

 i. Exhaust Temperature: 70 Units: deg F j. Exhaust % Moisture: 1 k. Exhaust Flow Volume: 19,800 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
211B	Process	D12	Control Device	100
D12	Control Device	T12	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	80.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

2700-PM-AQ0013 Rev. 8/2009

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 213B b. Company Designation: **STORING COLORED GRANULES**

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. . Source Description: Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1995

i. Exhaust Temperature: 68	Units: deg F	j. Exhaust % Moisture: 0	k. Exhaust Flow Volume: 1	SCFM
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Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
213B	Process	D10	Control Device	100
D10	Control Device	T10	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	100.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 215A b. Company Designation: STORING GRANULES

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. Source Description: Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1929

i. Exhaust Temperature: 68 Units: deg F j. Exhaust % Moisture: 0 k. Exhaust Flow Volume: 66,250 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
215A	Process	D10	Control Device	100
D10	Control Device	T10	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	60.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 216		b. Company Designation: G11 DEDUSTING AND OILING	
c. Plan Approval or Operating Permit Number:			
d. Manufacturer:		e. Model Number:	
f. Source Description: Process			
g. Rated Heat Input/Throughput:		h. Installation Date: 04/01/1992	
i. Exhaust Temperature: 70 Units: deg F		j. Exhaust % Moisture: 1	
		k. Exhaust Flow Volume: 13,682 SCFM	

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
216	Process	D16	Control Device	50
216	Process	F04	Control Device	50
D16	Control Device	T16	Point of Air Emission	50
F04	Control Device	S04	Point of Air Emission	25

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	150.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

2700-PM-AQ0013 Rev. 8/2009

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 217

b. Company Designation: CONVEYOR (987)

c. Plan Approval or Operating Permit Number:

d. Manufacturer: _____ e. Model Number: _____

f. Source Description: Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 12/22/1992

i. Exhaust Temperature: 70 Units: deg F j. Exhaust % Moisture: 3 k. Exhaust Flow Volume: 70,228 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
217	Process	D02	Control Device	25
217	Process	D04	Control Device	25
217	Process	D09	Control Device	25
217	Process	C106	Control Device	25
D02	Control Device	T02	Point of Air Emission	100
D04	Control Device	U04	Point of Air Emission	100
D09	Control Device	T09	Point of Air Emission	100
C106	Control Device	S106	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 218 b. Company Designation: GYRADISC (310) & SCREENING

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. **Source Description:** Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: _____

i. Exhaust Temperature:	Units:	deg F	j. Exhaust % Moisture:	k. Exhaust Flow Volume:	SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
218	Process	D02	Control Device	50
218	Process	D04	Control Device	50
D02	Control Device	T02	Point of Air Emission	100
D04	Control Device	U04	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-04	240.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

- a. Unit ID: 219A b. Company Designation: REMCO VSI CRUSHER 3
- c. Plan Approval or Operating Permit Number: _____
- d. Manufacturer: _____ e. Model Number: _____
- f. Source Description: Process _____
- g. Rated Heat Input/Throughput: _____ h. Installation Date: _____
- i. Exhaust Temperature: _____ Units: deg F j. Exhaust % Moisture: _____ k. Exhaust Flow Volume: _____ SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
219A	Process	D09	Control Device	100
D09	Control Device	T09	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-04	250.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 302 b. Company Designation: GRANULE STORAGE/TRANSFER

c. Plan Approval or Operating Permit Number:

d. Manufacturer: _____ e. Model Number: _____

f. **Source Description:** Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1960

i. Exhaust Temperature:	70	Units:	deg F	j. Exhaust % Moisture:	1	k. Exhaust Flow Volume:	22,770	SCFM
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Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
302	Process	C104	Control Device	50
302	Process	C105	Control Device	50
C104	Control Device	S104	Point of Air Emission	100
C105	Control Device	S105	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	100.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics				
If taking limitations on Fuel Physical Characteristics, see instructions.				
SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)		
Maximum amount of hours of source operation per year:		

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	
Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?		

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 303

b. Company Designation: ROTARY PREHEATER 1

c. Plan Approval or Operating Permit Number:

d. Manufacturer:

e. Model Number:

f. Source Description: Process

g. Rated Heat Input/Throughput:

h. Installation Date: 01/01/1960

i. Exhaust Temperature: 125 Units: deg F

j. Exhaust % Moisture: 3

k. Exhaust Flow Volume: 6,591 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
303	Process	C105	Control Device	100
C105	Control Device	S105	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	80.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- d. Indicate the frequency for submitting compliance report as explained above: _____

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

☐ No changes from current State Only Operating Permit.

[illegible]

2700-PM-AQ0013 Rev. 8/2009

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 304		b. Company Designation: ROTARY PREHEATER 2	
<hr/>			
c. Plan Approval or Operating Permit Number:			
<hr/>			
d. Manufacturer:		e. Model Number:	
<hr/>		<hr/>	
f. Source Description: Process			
<hr/>			
g. Rated Heat Input/Throughput:		h. Installation Date: 01/01/1960	
<hr/>		<hr/>	
i. Exhaust Temperature: 125	Units: deg F	j. Exhaust % Moisture: 3	k. Exhaust Flow Volume: 6,591 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
304	Process	C105	Control Device	100
C105	Control Device	S105	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	80.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 305A b. Company Designation: COLORING PLANT SYSTEM 1

 c. Plan Approval or Operating Permit Number: _____
 d. Manufacturer: _____ e. Model Number: _____
 f. Source Description: Process _____
 g. Rated Heat Input/Throughput: _____ h. Installation Date: 10/01/1981
 i. Exhaust Temperature: 125 Units: deg F j. Exhaust % Moisture: 10 k. Exhaust Flow Volume: 21,526 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
305A	Process	G01	Control Device	100
G01	Control Device	W01	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	80.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 308A b. Company Designation: COLORING PLANT SYSTEM 4

c. Plan Approval or Operating Permit Number:

d. Manufacturer: e. Model Number:

f. Source Description: Process

g. Rated Heat Input/Throughput: h. Installation Date: 08/01/1959

i. Exhaust Temperature: 160 Units: deg F j. Exhaust % Moisture: 47 k. Exhaust Flow Volume: 15,676 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
308A	Process	G02	Control Device	100
G02	Control Device	W02	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	100.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 309A

b. Company Designation: COLORING PLANT SYSTEM 2

c. Plan Approval or Operating Permit Number:

d. Manufacturer: _____

e. Model Number: _____

f. Source Description: Process

g. Rated Heat Input/Throughput: _____

h. Installation Date: _____

i. Exhaust Temperature: _____ Units: deg F

j. Exhaust % Moisture: _____

k. Exhaust Flow Volume: _____ SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
309A	Process	G03	Control Device	100
G03	Control Device	W03	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	40.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 311A b. Company Designation: COLORING PLANT SYSTEM 3

c. Plan Approval or Operating Permit Number:

d. Manufacturer: e. Model Number:

f. Source Description: Process

g. Rated Heat Input/Throughput: h. Installation Date: 01/01/1982

i. Exhaust Temperature: 145 Units: deg F j. Exhaust % Moisture: 44 k. Exhaust Flow Volume: 11,038 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
311A	Process	G05	Control Device	100
G05	Control Device	W05	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	100.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 317
b. Company Designation: WASTE STORAGE SYSTEM
c. Plan Approval or Operating Permit Number:
d. Manufacturer:
e. Model Number:
f. Source Description: Process
g. Rated Heat Input/Throughput:
h. Installation Date: 02/01/1959
i. Exhaust Temperature: 70 Units: deg F
j. Exhaust % Moisture: 0
k. Exhaust Flow Volume: 21,300 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
317	Process	H04	Control Device	50
H04	Control Device	X04	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	150.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 401B b. Company Designation: NATURAL COLOR GRANULES LOADING

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. Source Description:	Process
------------------------	---------

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1995

i. Exhaust Temperature:	68	Units:	deg F	j. Exhaust % Moisture:	0	k. Exhaust Flow Volume:	20,076	SCFM
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Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
401B	Process	H04	Control Device	33
401B	Process	C104	Control Device	33
401B	Process	C105	Control Device	33
H04	Control Device	X04	Point of Air Emission	100
C104	Control Device	S104	Point of Air Emission	100
C105	Control Device	S105	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation

Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
GRANULES	3-05-020-06	100.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics				
If taking limitations on Fuel Physical Characteristics, see instructions.				
SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)		
Maximum amount of hours of source operation per year: _____		
<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	
Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?		

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 7 – Process Operational Inventory

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

7.1 General Source Information

a. Unit ID: 402A b. Company Designation: SECONDARY CRUSHER, REMCO, 250 TPH

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: REEMCO 250 TPH e. Model Number: 250 TPH

f. Source Description: Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/03/2011

i. Exhaust Temperature: 68 Units: deg F j. Exhaust % Moisture: 1 k. Exhaust Flow Volume: 28,224 SCFM

7.2 Exhaust System Components

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
402A	Process	H01A	Control Device	100
H01A	Control Device	X01A	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	250.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 403 b. Company Designation: WASTE FINES DISPOSAL SYSTEM

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. Source Description:	Process
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g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1982

i. Exhaust Temperature: 70	Units: deg F	j. Exhaust % Moisture: 0	k. Exhaust Flow Volume: 8,356 SCFM
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Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
403	Process	H02	Control Device	100
H02	Control Device	X02	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation

Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK AND DUST	3-05-020-06	150.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

[illegible]

2700-PM-AQ0013 Rev. 8/2009

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID: 420 b. Company Designation: **UNDERSIZE MATERIAL PROCESS PLANT, 75 T CLASSIFIER**

c. Plan Approval or Operating Permit Number:

d. Manufacturer:

e. **Model Number:**

f. Source Description: Process

g. Rated Heat Input/Throughput:

h. Installation Date: 10/01/2013

i. Exhaust Temperature: Units: deg F

j. Exhaust
% Moisture:

k. Exhaust Flow
Volume: SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
420	Process	C420A	Control Device	45
420	Process	C420B	Control Device	45
C420A	Control Device	S420A	Point of Air Emission	100
C420B	Control Device	S420B	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

a. Unit ID: 500 b. Company Designation: HAUL ROAD

c. Plan Approval or Operating Permit Number: _____

d. Manufacturer: _____ e. Model Number: _____

f. **Source Description:** Process

g. Rated Heat Input/Throughput: _____ h. Installation Date: 01/01/1993

i. Exhaust Temperature:	70	Units:	deg F	j. Exhaust % Moisture:	0	k. Exhaust Flow Volume:	1	SCFM
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Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
500	Process	C000	Control Device	100
C000	Control Device	Z01	Point of Air Emission	20

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation

Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

For renewals, review and correct any pre-printed information and add additional sections for any new incinerator listed in Section 3 of this application.

a. Unit ID:	510	b. Company Designation:	INTRMEDIATE PLANT CRUSHER&SCREENIN(315), NORDBERG OR EQUI		
_____		_____			
c. Plan Approval or Operating Permit Number:					

d. Manufacturer:	ISP MINERALS		e. Model Number:	315-04	
_____		_____			
f. Source Description: Process					

g. Rated Heat Input/Throughput:			h. Installation Date: 01/01/2004		
_____			_____		
i. Exhaust Temperature:	68	Units:	deg F	j. Exhaust % Moisture:	1
				k. Exhaust Flow Volume:	21,517 SCFM

Explain how the exhaust components are configured:

From Unit	Unit Description	To Unit	Unit Description	Percent Flow
510	Process	J01	Control Device	100
J01	Control Device	T20	Point of Air Emission	100

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation			
Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence
CRUSHED ROCK	3-05-020-06	300.00 Tons/hr	

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics

If taking limitations on Fuel Physical Characteristics, see instructions.

SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)

Maximum amount of hours of source operation per year:

<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	

Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

(Complete this section for each process at this site. Duplicate this section as needed).

7.1 General Source Information

c. Plan Approval or Operating Permit Number: _____

f. Source Description: _____

i. Exhaust Temperature:	Units:	deg F	j. Exhaust % Moisture:	k. Exhaust Flow Volume:	SCFM

Explain how the exhaust components are configured:

[illegible]

Please read instructions carefully before completing this application.

7.3 Source Classification code (SCC) Listing for Standard Operation

Fuel/Material	Associated SCC	Max. Throughput Rate	Firing Sequence

Please read instructions carefully before completing this application.

7.4 Maximum Fuel Physical Characteristics				
If taking limitations on Fuel Physical Characteristics, see instructions.				
SCC/Fuel Burned	FML*	% Sulfur	% Ash	BTU Content (Units)

*FML = Fuel Material Location

7.5 Limitations on Source Operation (optional) (for Synthetic Minor Sources only)		
Maximum amount of hours of source operation per year: _____		
<input type="checkbox"/>	Hours of Operation	
<input type="checkbox"/>	Production Throughput Rate	
<input type="checkbox"/>	Type of Fuel	
<input type="checkbox"/>	Fuel Usage	
<input type="checkbox"/>	Control Devices	
<input type="checkbox"/>	Emissions Limitations	
<input type="checkbox"/>	Other	
Describe how the elected restriction(s) will allow the facility to become a Synthetic Minor?		

Please read instructions carefully before completing this application.

7.6 Compliance Method for this source (for Synthetic Minor Sources only)

Complete this section only if limitation(s) and/or restriction(s) were proposed in Section 7.6.

- a. Explain how you would demonstrate compliance with the restriction(s) and/or limitation(s):

- b. Describe what is to be reported in the compliance report:

- c. Reporting start date: _____

- d. Indicate the frequency for submitting compliance report as explained above: _____

7.7 Source Potential to Emit (for Synthetic Minor Sources only)

Give Potential Emission estimate for all air pollutants emitted at this source. Calculations for the Potential Emissions Estimate here should have included the restriction(s) and/or limitation(s) proposed in Section 7.5, if applicable.

Pollutant or CAS Number	Fuel/SCC	Emissions/Activity Allowable per Unit	Calc. Method	Max. Capacity	Total Hours	Emission in TPY

7.8 Source Applicable Requirements

Describe and cite all applicable requirements pertaining to this source.

Note: A Method of Compliance Worksheet (Addendum 1) must be completed for each requirement listed.

For renewals, only list group level requirements not included in the current State Only Operating Permit. If there are no changes, check the box to the right.

☐ No changes from current State Only Operating Permit.

Fuel/SCC	Citation Number	Citation Limitation	Limitation Used

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

- a. Unit ID: C000 b. Company Designation: WATER SPRAYS / ROAD WETTING
- c. Used by Sources: 199, 200B, 201, 202, 500
- d. Type: Water Spray
- e. Pressure Drop in H₂O: f. Capture Efficiency:
- g. Scrubber Flow Rate (GPM):
- h. Manufacturer: i. Model Number:
- j. Installation Date: 01/01/2006

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
PM10	PM10	65	Est Eff (eff. based on estimates)

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

a. Unit ID: C015C b. Company Designation: ASTEC BAGHOUSE (DC435)

c. Used by Sources: 015

d. Type: Baghouse - Reverse Air Flow

e. Pressure Drop in H₂O: 6 f. Capture Efficiency: 99

g. Scrubber Flow Rate (GPM):

h. Manufacturer: i. Model Number:

j. Installation Date:

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.83	Stk Tst (eff. calc'd using stack results)
PM10	PM10	99.83	Stk Tst (eff. calc'd using stack results)

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

a. Unit ID: C051A b. Company Designation: HGP: DONALDSON TORIT BAGHOUSE (DC101A)

c. Used by Sources: 051

d. Type: Baghouse - Reverse Air Flow

e. Pressure Drop in H₂O: 6

f. Capture Efficiency: 98

g. Scrubber Flow Rate (GPM):

h. Manufacturer: DONALDSON

i. Model Number: 484RF12AW

j. Installation Date: 10/10/2005

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.99	Rated efficiency: guaranteed minimum
PM10	PM10	99.87	Stk Tst (eff. calc'd using stack results)

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

a. Unit ID: C051B b. Company Designation: HGP: DONALDSON TORIT BAGHOUSE (DC102A)

c. Used by Sources: 051

d. Type: Baghouse - Reverse Air Flow

e. Pressure Drop in H₂O: 6 f. Capture Efficiency: 98

g. Scrubber Flow Rate (GPM):

h. Manufacturer: DONALDSON i. Model Number: 484RF12AW

j. Installation Date: 10/10/2005

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.99	Rated efficiency: guaranteed minimum
PM10	PM10	50.98	Stk Tst (eff. calc'd using stack results)

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

- a. Unit ID: C051C b. Company Designation: HGP: DONALDSON TORIT BAGHOUSE (DC103A)
- c. Used by Sources: 051
- d. Type: Baghouse - Reverse Air Flow
- e. Pressure Drop in H₂O: 6 f. Capture Efficiency: 98
- g. Scrubber Flow Rate (GPM):
- h. Manufacturer: DONALDSON i. Model Number: 484RF12AW
- j. Installation Date: 10/10/2005

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
TSP	TSP	97.49	Rated efficiency: guaranteed minimum
PM10	PM10	97.49	Stk Tst (eff. calc'd using stack results)

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

a. Unit ID: C051D b. Company Designation: HGP: DONALDSON TORIT BAGHOUSE (DC104A)

c. Used by Sources: 051

d. Type: Baghouse - Reverse Air Flow

e. Pressure Drop in H₂O: 6 f. Capture Efficiency: 98

g. Scrubber Flow Rate (GPM):

h. Manufacturer: DONALDSON i. Model Number: 48RF8AW

j. Installation Date: 10/10/2005

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.99	Rated efficiency: guaranteed minimum
PM10	PM10	99.99	Rated efficiency: guaranteed minimum

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

- a. Unit ID: C104 b. Company Designation: DONALDSON TORIT BAGHOUSE 484RF (NO. 4)
- c. Used by Sources: 302, 401B
- d. Type: Baghouse - Reverse Air Flow
- e. Pressure Drop in H₂O: 6 f. Capture Efficiency: 95
- g. Scrubber Flow Rate (GPM):
- h. Manufacturer: DONALDSON i. Model Number: 484RF12AW
- j. Installation Date: 01/01/2007

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
PM10	PM10	99.9	Rated efficiency: guaranteed minimum

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID:	C105	b. Company Designation:	DONALDSON TORIT BAGHOUSE 484RF (NO. 5)
c. Used by Sources:	302, 303, 304, 401B		
d. Type:	Baghouse - Reverse Air Flow		
e. Pressure Drop in H ₂ O:	6	f. Capture Efficiency:	95
g. Scrubber Flow Rate (GPM):			
h. Manufacturer:	DONALDSON	i. Model Number:	484RF
j. Installation Date:	01/01/2007		

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
PM10	PM10	99.9	Rated efficiency: guaranteed minimum

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

- a. Unit ID: C106 b. Company Designation: TORIT DONALDSON 484 RWF 12 AW
BAGHOUSE
- c. Used by Sources: 210, 211, 217
- d. Type: Baghouse - Reverse Air Jets
- e. Pressure Drop in H₂O: 6 f. Capture Efficiency: 85
- g. Scrubber Flow Rate (GPM):
- h. Manufacturer: DONALDSON i. Model Number: 484 RFW 12 AW
- j. Installation Date:

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
PM10	PM10	99.5	Rated efficiency: guaranteed minimum

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

- a. Unit ID: C420A b. Company Designation: CONTROL, 65,000SCFM DONALDSON905
BAGHOUSE 905RFPW12, OR EQUI
- c. Used by Sources: 420
- d. Type: Baghouse - Reverse Air Jets
- e. Pressure Drop in H₂O: f. Capture Efficiency: 99
- g. Scrubber Flow Rate (GPM):
- h. Manufacturer: i. Model Number:
- j. Installation Date:

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
PM10	PM10	99.5	Other; see comments

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

a. Unit ID: C420B b. Company Designation: CONTROL, 15,000 SCFM METSO BAGHOUSE
276RF12 OR EQUIVALENT

c. Used by Sources: 420

d. Type: Baghouse - Reverse Air Flow

e. Pressure Drop in H₂O: f. Capture Efficiency: 99

g. Scrubber Flow Rate (GPM):

h. Manufacturer: i. Model Number:

j. Installation Date:

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
PM10	PM10	99.5	Other; see comments

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID:	D02	b. Company Designation:	PULSE KING M100 BAGHOUSE
c. Used by Sources:	217, 218		
d. Type:	Baghouse - Reverse Air Jets		
e. Pressure Drop in H ₂ O:	4	f. Capture Efficiency:	99
g. Scrubber Flow Rate (GPM):			
h. Manufacturer:		i. Model Number:	
j. Installation Date:	01/01/1981		

Pollutant Name	CAS Number	Estimate Control	
		Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.85	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: D04
b. Company Designation: PULSE KING M200 BAGHOUSE
c. Used by Sources: 217, 218
d. Type: Baghouse - Reverse Air Jets
e. Pressure Drop in H₂O: 4
f. Capture Efficiency: 99
g. Scrubber Flow Rate (GPM):
h. Manufacturer:
i. Model Number:
j. Installation Date: 01/01/1981

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.85	Rated efficiency: guaranteed minimum
PM10	PM10	99.22	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: D08

b. Company Designation: TORIT DONALDSON 484 RWF 12 AW BAGHOUSE

c. Used by Sources: 208, 209

d. Type: Baghouse - Pneumatic Shakers

e. Pressure Drop in H₂O: 3

f. Capture Efficiency:

g. Scrubber Flow Rate (GPM):

h. Manufacturer:

i. Model Number:

j. Installation Date: 08/07/1976

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.5	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: D09

b. Company Designation: CARTER-DAY 276 RFB

c. Used by Sources: 217, 219A

d. Type: Baghouse - Reverse Air Jets

e. Pressure Drop in H₂O: 3

f. Capture Efficiency: 99

g. Scrubber Flow Rate (GPM):

h. Manufacturer:

i. Model Number:

j. Installation Date: 08/01/1985

Pollutant Name	CAS Number	Estimate Control	
		Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.8	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: D10

b. Company Designation: JOHNSON-MARCH (NO. 1)

c. Used by Sources: 210, 213B, 215A

d. Type: Baghouse - Reverse Air Jets

e. Pressure Drop in H₂O: 3

f. Capture Efficiency: 98

g. Scrubber Flow Rate (GPM):

h. Manufacturer:

i. Model Number:

j. Installation Date: 09/01/1974

Pollutant Name	CAS Number	Estimate Control	
		Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.5	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: D11

b. Company Designation: JOHNSON-MARCH (NO. 2)

c. Used by Sources: 211

d. Type: Baghouse - Reverse Air Jets

e. Pressure Drop in H₂O: 2

f. Capture Efficiency: 98

g. Scrubber Flow Rate (GPM):

h. Manufacturer:

i. Model Number:

j. Installation Date: 09/01/1974

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	97.88	Stk Tst (eff. calc'd using stack results)
PM10	PM10	99.95	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: D12

b. Company Designation: DONALDSON H BAGHOUSE

c. Used by Sources: 210A, 211B

d. Type: Baghouse - Reverse Air Flow

e. Pressure Drop in H₂O: 8

f. Capture Efficiency: 98

g. Scrubber Flow Rate (GPM):

h. Manufacturer: DONALDSON

i. Model Number: 484 RFW 10

j. Installation Date: 01/01/1997

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
PM10	PM10	99.98	Stk Tst (eff. calc'd using stack results)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: D16
b. Company Designation: TORIT-DAY BAGHOUSE
c. Used by Sources: 216
d. Type: Baghouse - Reverse Air Jets
e. Pressure Drop in H₂O: 2
f. Capture Efficiency: 99
g. Scrubber Flow Rate (GPM):
h. Manufacturer:
i. Model Number:
j. Installation Date: 04/01/1992

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.5	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: F04
b. Company Designation: CARTER-DAY 72RJ60
c. Used by Sources: 216
d. Type: Baghouse - Reverse Air Jets
e. Pressure Drop in H₂O: 2
f. Capture Efficiency:
g. Scrubber Flow Rate (GPM):
h. Manufacturer:
i. Model Number:
j. Installation Date: 01/01/1980

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.85	Rated efficiency: guaranteed minimum

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: G01
b. Company Designation: DONALDSON 3 BAGHOUSE
c. Used by Sources: 305A
d. Type: Baghouse - Pneumatic Shakers
e. Pressure Drop in H₂O: 5
f. Capture Efficiency: 99
g. Scrubber Flow Rate (GPM):
h. Manufacturer:
i. Model Number:
j. Installation Date: 10/01/1981

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.5	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: G02

b. Company Designation: FISHER-KLOSTERMAN VENTURI

c. Used by Sources: 308A

d. Type: Venturi Scrubber

e. Pressure Drop in H₂O: 26

f. Capture Efficiency: 99

g. Scrubber Flow Rate (GPM):

h. Manufacturer:

i. Model Number:

j. Installation Date: 01/01/1982

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.5	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: G03
b. Company Designation: DONALDSON 2 BAGHOUSE

c. Used by Sources: 309A

d. Type: Baghouse - Pneumatic Shakers

e. Pressure Drop in H₂O: 5
f. Capture Efficiency: 99

g. Scrubber Flow Rate (GPM):

h. Manufacturer:
i. Model Number:

j. Installation Date: 01/01/1982

Pollutant Name	CAS Number	Estimate Control	
		Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.5	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: G05

b. Company Designation: DONALDSON 1 BAGHOUSE

c. Used by Sources: 311A

d. Type: Baghouse - Pneumatic Shakers

e. Pressure Drop in H₂O: 5

f. Capture Efficiency: 99

g. Scrubber Flow Rate (GPM):

h. Manufacturer:

i. Model Number:

j. Installation Date: 01/01/1982

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.5	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID:	H01A	b. Company Designation:	DONALDSON TORIT 484RFWAW12X, 30000CFM BAGHOUSE, REPLACED D09
<hr/>		<hr/>	
c. Used by Sources:	402A		
<hr/>			
d. Type:	Baghouse - Reverse Air Flow		
<hr/>			
e. Pressure Drop in H ₂ O:	6	f. Capture Efficiency:	99
<hr/>		<hr/>	
g. Scrubber Flow Rate (GPM):	30000		
<hr/>			
h. Manufacturer:	DONALDSON TORIT	i. Model Number:	484
<hr/>		<hr/>	
j. Installation Date:	01/03/2011		
<hr/>			

Pollutant Name	CAS Number	Estimate Control	
		Efficiency	Basis for Efficiency Estimate
PM10	PM10	99.5	Rated efficiency: guaranteed minimum

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: H02

b. Company Designation: CARTER-DAY D 72RJ48

c. Used by Sources: 403

d. Type: Baghouse - Reverse Air Jets

e. Pressure Drop in H₂O: 2

f. Capture Efficiency:

g. Scrubber Flow Rate (GPM):

h. Manufacturer:

i. Model Number:

j. Installation Date: 01/01/1982

Pollutant Name	CAS Number	Estimate Control	
		Efficiency	Basis for Efficiency Estimate
TSP	TSP	99.9	Rated efficiency: guaranteed minimum
PM10	PM10	99.5	Est Eff (eff. based on estimates)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: H04
b. Company Designation: CARTER-DAY 232RF8 (NO. 5)

c. Used by Sources: 317, 401B

d. Type: Baghouse - Reverse Air Jets

e. Pressure Drop in H₂O: 5
f. Capture Efficiency: 99

g. Scrubber Flow Rate (GPM):

h. Manufacturer:
i. Model Number:

j. Installation Date: 01/01/1983

Pollutant Name	CAS Number	Estimate Control	Basis for Efficiency Estimate
		Efficiency	
TSP	TSP	99.9	Rated efficiency: guaranteed minimum
PM10	PM10	99.8	Est Eff (eff. based on estimates)

Please read instructions carefully before completing this application.

Section 8 – Control Device Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

8.1 General Control Device Information

a. Unit ID: J01	b. Company Designation: TORIT DONALDSON

c. Used by Sources: 510	

d. Type:	

e. Pressure Drop in H ₂ O:	f. Capture Efficiency:
_____	_____
g. Scrubber Flow Rate (GPM):	

h. Manufacturer:	i. Model Number:
_____	_____
j. Installation Date:	

8.2 Control Device Efficiencies for this Control Device

Pollutant Name	CAS Number	Estimate Control Efficiency	Basis for Efficiency Estimate
TSP	TSP	91.78	Stk Tst (eff. calc'd using stack results)
PM10	PM10	91.78	Stk Tst (eff. calc'd using stack results)

For renewals, review and correct any pre-printed information and add additional sections for any new control device listed in Section 3 of this application.

a. Unit ID: _____

b. Company Designation: _____

c. Used by Sources: _____

d. Type: _____

e. Pressure Drop in H₂O: _____

f. Capture Efficiency: _____

g. Scrubber Flow Rate (GPM): _____

h. Manufacturer: _____

i. Model Number: _____

j. Installation Date: _____

[illegible]

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: S015C b. Company Designation: STACK, BAGHOUSE C015C

c. Discharge Type: _____

d. Diameter (ft): _____ Height (ft): _____ Base Elevation (ft): _____

e. Exhaust Temperature: 227 deg F Exhaust % Moisture: 5 Exhaust Velocity: _____

f. Exhaust Volume: 54,000 ACFM Exhaust Volume: 39,576 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: C015C

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

a. Unit ID: S04 b. Company Designation: UNSPECIFIED NAME

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 1 Height (ft): 10 Base Elevation (ft): _____

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 0 Exhaust Velocity: 4.11

f. Exhaust Volume: 635 ACFM Exhaust Volume: 635 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: F04

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: S051A b. Company Designation: HGP: DC101A STACK (T101)
 c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING
 d. Diameter (ft): 3.3 Height (ft): 30 Base Elevation (ft): 1255
 e. Exhaust Temperature: 200 deg F Exhaust % Moisture: 3 Exhaust Velocity: 18.12
 f. Exhaust Volume: 30,500 ACFM Exhaust Volume: 23,758 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: C051A
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: _____
 l. Horizontal Collection Method: _____
 m. Reference Point: _____

a. Unit ID: S051B b. Company Designation: HGP: DC102A STACK (T102)
 c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING
 d. Diameter (ft): 3.3 Height (ft): 30 Base Elevation (ft): 1255
 e. Exhaust Temperature: 68 deg F Exhaust % Moisture: 1 Exhaust Velocity: 18.41
 f. Exhaust Volume: 31,000 ACFM Exhaust Volume: 30,806 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: C051B
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: _____
 l. Horizontal Collection Method: _____
 m. Reference Point: _____

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: S051C b. Company Designation: HGP: DC103A STACK (T103)

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 3.3 Height (ft): 30 Base Elevation (ft): 1255

e. Exhaust Temperature: 68 deg F Exhaust % Moisture: 1 Exhaust Velocity: 19.25

f. Exhaust Volume: 33,000 ACFM Exhaust Volume: 32,794 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: C051C

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

a. Unit ID: S051D b. Company Designation: HGP: DC104A STACK (T104)

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 2 Height (ft): 2 Base Elevation (ft): 1200

e. Exhaust Temperature: 68 deg F Exhaust % Moisture: 1 Exhaust Velocity: 8.09

f. Exhaust Volume: 5,000 ACFM Exhaust Volume: 4,969 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: C051D

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: S104 b. Company Designation: STACK, DONALDSON TORIT (NO. 4)

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 3.3 Height (ft): 50 Base Elevation (ft): 1255

e. Exhaust Temperature: 68 deg F Exhaust % Moisture: 1 Exhaust Velocity: 15.03

f. Exhaust Volume: 25,300 ACFM Exhaust Volume: 25,142 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: C104

j. Latitude: 39° 45 22 Longitude: -77° 27 20

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

a. Unit ID: S105 b. Company Designation: STACK, DONALDSON TORIT (NO. 5)

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 3.3 Height (ft): 50 Base Elevation (ft): 1255

e. Exhaust Temperature: 68 deg F Exhaust % Moisture: 1 Exhaust Velocity: 15.97

f. Exhaust Volume: 26,880 ACFM Exhaust Volume: 26,712 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: C105

j. Latitude: 39° 45 22 Longitude: -77° 27 20

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: S106 b. Company Designation: TORIT DONALDSON STACK
 c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING
 d. Diameter (ft): 3 Height (ft): 40 Base Elevation (ft): 1060
 e. Exhaust Temperature: 68 deg F Exhaust % Moisture: 5 Exhaust Velocity: 24.44
 f. Exhaust Volume: 34,000 ACFM Exhaust Volume: 32,422 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: C106
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: _____
 l. Horizontal Collection Method: _____
 m. Reference Point: _____

a. Unit ID: S420A b. Company Designation: STACK, 65,000 SCFM DONALDSON BAGHOUSE
 c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING
 d. Diameter (ft): _____ Height (ft): _____ Base Elevation (ft): _____
 e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 5 Exhaust Velocity: _____
 f. Exhaust Volume: 33,000 ACFM Exhaust Volume: 31,350 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: C420A
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: _____
 l. Horizontal Collection Method: _____
 m. Reference Point: _____

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: S420B b. Company Designation: STACK, 15,000 SCFM METSO BAGHOUSE

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): Height (ft): Base Elevation (ft):

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 5 Exhaust Velocity:

f. Exhaust Volume: 15,000 ACFM Exhaust Volume: 14,250 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: C420B

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum:

l. Horizontal Collection Method:

m. Reference Point:

a. Unit ID: T02 b. Company Designation: PULSE KING M100 STACK

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 3 Height (ft): 60 Base Elevation (ft):

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 3 Exhaust Velocity: 13.78

f. Exhaust Volume: 19,175 ACFM Exhaust Volume: 18,600 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: D02

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: T08 b. Company Designation: TORIT DONALDSON STACK

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 3.8 Height (ft): 80 Base Elevation (ft): 1100

e. Exhaust Temperature: 180 deg F Exhaust % Moisture: 10 Exhaust Velocity: 15.68

f. Exhaust Volume: 35,000 ACFM Exhaust Volume: 26,086 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: D08

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

a. Unit ID: T09 b. Company Designation: CARTER DAY 276 RFB STACK

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 3 Height (ft): 85 Base Elevation (ft): _____

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 3 Exhaust Velocity: 13.61

f. Exhaust Volume: 18,940 ACFM Exhaust Volume: 18,372 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: D09

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: T10 b. Company Designation: JOHNSON-MARCH 1 STACK

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 4.5 Height (ft): 46 Base Elevation (ft):

e. Exhaust Temperature: 91 deg F Exhaust % Moisture: 4 Exhaust Velocity: 15.03

f. Exhaust Volume: 47,068 ACFM Exhaust Volume: 43,463 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: D10

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

a. Unit ID: T11 b. Company Designation: JOHNSON-MARCH 2 STACK

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 4.5 Height (ft): 46 Base Elevation (ft):

e. Exhaust Temperature: 105 deg F Exhaust % Moisture: 6 Exhaust Velocity: 14.09

f. Exhaust Volume: 44,100 ACFM Exhaust Volume: 38,886 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: D11

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: T12 b. Company Designation: DONALDSON H STACK
 c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING
 d. Diameter (ft): 4 Height (ft): 30 Base Elevation (ft): 1060
 e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 1 Exhaust Velocity: 16.17
 f. Exhaust Volume: 40,000 ACFM Exhaust Volume: 39,600 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: D12
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: NAD83
 l. Horizontal Collection Method: Unknown
 m. Reference Point: Plant entrance (general) - The general entrance to a plant

a. Unit ID: T16 b. Company Designation: TORIT-DAY STACK
 c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING
 d. Diameter (ft): 3 Height (ft): 30 Base Elevation (ft): _____
 e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 1 Exhaust Velocity: 9.93
 f. Exhaust Volume: 13,820 ACFM Exhaust Volume: 13,682 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: D16
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: NAD83
 l. Horizontal Collection Method: Unknown
 m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: T20 b. Company Designation: TORIT DONALDSON STACK

c. Discharge Type: _____

d. Diameter (ft): _____ Height (ft): _____ Base Elevation (ft): _____

e. Exhaust Temperature: 68 deg F Exhaust % Moisture: 10 Exhaust Velocity: _____

f. Exhaust Volume: 10,000 ACFM Exhaust Volume: 9,034 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: J01

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

a. Unit ID: U04 b. Company Designation: PULSE KING M200 STACK

c. Discharge Type: VERTICAL: UNOBSTRUCTED OPENING

d. Diameter (ft): 4 Height (ft): 26 Base Elevation (ft): _____

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 3 Exhaust Velocity: 14.75

f. Exhaust Volume: 36,495 ACFM Exhaust Volume: 35,400 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: D04

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: W01 b. Company Designation: DONALDSON 3 STACK (G01)
 c. Discharge Type: VERTICAL: WEATHER CAP/SIMILAR OBSTRUCTIN
 d. Diameter (ft): 3.5 Height (ft): 35 Base Elevation (ft): _____
 e. Exhaust Temperature: 115 deg F Exhaust % Moisture: 10 Exhaust Velocity: 13.95
 f. Exhaust Volume: 26,425 ACFM Exhaust Volume: 21,921 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: G01
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: NAD83
 l. Horizontal Collection Method: Unknown
 m. Reference Point: Plant entrance (general) - The general entrance to a plant

a. Unit ID: W02 b. Company Designation: F-K 4 STACK (G02)
 c. Discharge Type: VERTICAL: WEATHER CAP/SIMILAR OBSTRUCTIN
 d. Diameter (ft): 2.8 Height (ft): 35 Base Elevation (ft): _____
 e. Exhaust Temperature: 130 deg F Exhaust % Moisture: 15 Exhaust Velocity: 6.68
 f. Exhaust Volume: 8,098 ACFM Exhaust Volume: 6,183 SCFM
 g. Distance to Nearest Property Line (ft): _____
 h. Weather Cap?: ☐ Yes ☐ No
 i. Used by Sources: G02
 j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398
 k. Horizontal Reference Datum: NAD83
 l. Horizontal Collection Method: Unknown
 m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: W03 b. Company Designation: DONALDSON 2 STACK (G03)

c. Discharge Type: VERTICAL: WEATHER CAP/SIMILAR OBSTRUCTIN

d. Diameter (ft): 4 Height (ft): 35 Base Elevation (ft):

e. Exhaust Temperature: 130 deg F Exhaust % Moisture: 15 Exhaust Velocity: 8.3

f. Exhaust Volume: 20,530 ACFM Exhaust Volume: 15,676 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: G03

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

a. Unit ID: W05 b. Company Designation: DONALDSON 1 STACK

c. Discharge Type: VERTICAL: WEATHER CAP/SIMILAR OBSTRUCTIN

d. Diameter (ft): 3.3 Height (ft): 35 Base Elevation (ft):

e. Exhaust Temperature: 145 deg F Exhaust % Moisture: 20 Exhaust Velocity: 9.35

f. Exhaust Volume: 15,750 ACFM Exhaust Volume: 11,038 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: G05

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: X01A b. Company Designation: DONALDSON TORIT H01A STACK

c. Discharge Type: VERTICAL: WEATHER CAP/SIMILAR OBSTRUCTIN

d. Diameter (ft): 3.5 Height (ft): 40 Base Elevation (ft): 1060

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 3 Exhaust Velocity: 15.84

f. Exhaust Volume: 30,000 ACFM Exhaust Volume: 29,100 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: H01A

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

a. Unit ID: X02 b. Company Designation: CARTER-DAY D STACK

c. Discharge Type: HORIZONTAL OR NEARLY HORIZONTAL

d. Diameter (ft): 3.3 Height (ft): 73 Base Elevation (ft): _____

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 3 Exhaust Velocity: 2.68

f. Exhaust Volume: 4,510 ACFM Exhaust Volume: 4,375 SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: H02

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: X04 b. Company Designation: CARTER-DAY E STACK

c. Discharge Type: HORIZONTAL OR NEARLY HORIZONTAL

d. Diameter (ft): 3.3 Height (ft): 56 Base Elevation (ft):

e. Exhaust Temperature: 130 deg F Exhaust % Moisture: 15 Exhaust Velocity: 16.57

f. Exhaust Volume: 27,896 ACFM Exhaust Volume: 21,300 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: H04

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

a. Unit ID: Z01 b. Company Designation: FUGITIVES, PLANT

c. Discharge Type: FUGITIVE EMISSIONS

d. Diameter (ft): 0 Height (ft): 10 Base Elevation (ft):

e. Exhaust Temperature: 70 deg F Exhaust % Moisture: 0 Exhaust Velocity:

f. Exhaust Volume: 1 ACFM Exhaust Volume: 1 SCFM

g. Distance to Nearest Property Line (ft):

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: C000

j. Latitude: 39° 44 54.8918 Longitude: -77° 27 24.6398

k. Horizontal Reference Datum: NAD83

l. Horizontal Collection Method: Unknown

m. Reference Point: Plant entrance (general) - The general entrance to a plant

Please read instructions carefully before completing this application.

Section 9 – Stack/Flue Information (duplicate this section as needed)

For renewals, review and correct any pre-printed information and add additional sections for any new stack/flue listed in Section 3 of this application.

9.1 General Stack/Vent Information

a. Unit ID: _____ b. Company Designation: _____

c. Discharge Type: _____

d. Diameter (ft): _____ Height (ft): _____ Base Elevation (ft): _____

e. Exhaust Temperature: _____ Exhaust % Moisture: _____ Exhaust Velocity: _____

f. Exhaust Volume: _____ ACFM Exhaust Volume: _____ SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: _____

j. Latitude: _____ Longitude: _____

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

a. Unit ID: _____ b. Company Designation: _____

c. Discharge Type: _____

d. Diameter (ft): _____ Height (ft): _____ Base Elevation (ft): _____

e. Exhaust Temperature: _____ Exhaust % Moisture: _____ Exhaust Velocity: _____

f. Exhaust Volume: _____ ACFM Exhaust Volume: _____ SCFM

g. Distance to Nearest Property Line (ft): _____

h. Weather Cap?: ☐ Yes ☐ No

i. Used by Sources: _____

j. Latitude: _____ Longitude: _____

k. Horizontal Reference Datum: _____

l. Horizontal Collection Method: _____

m. Reference Point: _____

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

Section 10 – Fuel Material Location (FML) Information (Optional)

For renewals, review and correct any pre-printed information and add additional sections for any new FML listed in Section 3 of this application.

10.1 Fuel Material Location Information

a. FML ID Number: FML001 b. Name: NATURAL GAS

c. Capacity: _____ Units: _____ d. Fuel: Natural Gas

e. Maximum Fuel Characteristics: If fuel is coal, what is the moisture content? _____

% Ash: 0 % Sulfur: 0 BTU Content: 1040 Units: lbs/gal/cu ft

f. Used by Source: _____

015, 051, 208, 303, 304, 305A

a. FML ID Number: FML002 b. Name: NO. 2 FUEL OIL - FUEL TANKER

c. Capacity: _____ Units: _____ d. Fuel: #2 Oil

e. Maximum Fuel Characteristics: If fuel is coal, what is the moisture content? _____

% Ash: _____ % Sulfur: _____ BTU Content: _____ Units: _____

f. Used by Source: _____

015, 051, 208, 303, 304, 305A

a. FML ID Number: _____ b. Name: _____

c. Capacity: _____ Units: _____ d. Fuel: _____

e. Maximum Fuel Characteristics: If fuel is coal, what is the moisture content? _____

Please read instructions carefully before completing this application.

% Ash: _____ % Sulfur: _____ BTU Content: _____ Units: _____

f. Used by Source:

(Duplicate this section for each source participated in this alternative scenarios)

a. Alternative Operating Scenario Name or ID No.: _____

b. Source ID No.: _____ c. Source Name: _____

d. Source Type (check one): ☐ Combustion ☐ Incinerator ☐ Process

e. Give a brief description of this alternative scenario stating how it is different from the standard operation:

Check all that apply.

- ☐ Alternative exhaust system component configuration.
If this box is checked, complete Sections, 11.3 and 11.7
- ☐ Alternative type of fuel replacing or in addition to an existing fuel in standard operation.
If this box is checked, complete Sections 11.4 and/or 11.5 and 11.7
- ☐ Alternative process method replacing or in addition to a process SCC existing in standard operation.
If this box is checked, complete Section 11.6 and 11.7
- ☐ Alternative lower limitations.

Specify the complete exhaust system component configuration for this alternative operating scenario.

[illegible]

Please read instructions carefully before completing this application.

Please read instructions carefully before completing this application.

11.4 Source Classification Code (SCC) Listing for Alternative Operation

Give a complete listing of all fuels burned, products produced by a process or waste incinerated for this alternative operating scenario.

Fuel	Associated SCC	Max. Throughput Rate	Firing Sequence

11.5 Alternative Fuel Physical Characteristics

Give a complete listing of all fuels physical characteristics for this alternative operating scenario.

SCC/Fuel Burned	FML	% Sulfur	% Ash	BTU Content (Units)

11.6 Alternative Process/Product Description

a. Briefly describe the change(s) in raw materials and/or process methods used in this operating scenario, if applicable:

b. Provide and briefly describe the process SCC associated with this alternative operating scenario:

Process SCC:

SCC Description:

c. Alternative Product(s):

Give Potential Emission estimate for all air pollutants emitted at this source for this operating scenario.

[illegible]

Please read instructions carefully before completing this application.

Section 12 – Compliance Plan for the Facility

- | | | Yes | No |
|------|--|--------------------------|--------------------------|
| 12.1 | Will your facility be in compliance with all applicable requirements at the time of permit issuance and continue to comply with these requirements during the permit duration? | <input type="checkbox"/> | <input type="checkbox"/> |
| 12.2 | Will your facility be in compliance with all applicable requirements presently scheduled to take effect during the term of the permit? | <input type="checkbox"/> | <input type="checkbox"/> |
| 12.3 | Will these requirements be met by the regulatory required dates? | <input type="checkbox"/> | <input type="checkbox"/> |

If you checked "NO" in part 12.1, 12.2 or 12.3, answer the following questions:

- 12.4 Identify applicable requirement(s) for which compliance is not or will not be achieved:

Source ID Number	Citation Number

- 12.4.2 Briefly describe how compliance with this/these applicable requirement(s) will be achieved:

Please read instructions carefully before completing this application.

- 12.4.3. Provide a detailed schedule of compliance for the non-complying sources or activities identified in this section of the application. Include an enforceable sequence of corrective actions with milestone and projected compliance dates.

Date	Action/Milestone

12.4.4. Indicate the submittal frequency for the progress report(s): _____

12.4.5. Starting date for the submittal of the progress report(s): _____

Please read instructions carefully before completing this application.

Section 13 – Certification of Compliance for Synthetic Minor Source

In order for this Synthetic Minor facility to avoid the State Only Operating Permit requirements, the applicant must agree to be bound by the emissions limitation(s) and/or restriction(s) contained in this application. In addition, the applicant must agree that these emission limitation(s) are enforceable by the Department, the Environmental Protection Agency and the citizens.

13.1 Schedule for Compliance Certification Submission

- a. Frequency of submittal: _____
- b. Beginning Date: _____

13.2 Certification of Compliance (for Synthetic Minor Facility only)

I certify under the penalty of 18 Pa. CS 4904 (b) (2) that the sources covered by this application will comply with the emission limitations and other requirements contained in this application and all previously issued plan approvals and operating permits. I further certify that, based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate, and complete.

(Signed) _____ Date _____

Name (Typed) _____

Title: _____



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY



AIR POLLUTION CONTROL ACT COMPLIANCE REVIEW FORM

Fully and accurately provide the following information, as specified. Attach additional sheets as necessary.

Type of Compliance Review Form Submittal (check all that apply)

☒ Original Filing Date of Last Compliance Review Form Filing: _____
☐ Amended Filing _____/_____/_____

Type of Submittal

☐ New Plan Approval ☐ New Operating Permit ☒ Renewal of Operating Permit
☐ Extension of Plan Approval ☐ Change of Ownership ☐ Periodic Submission (@ 6 mos)
☐ Other: _____

SECTION A. GENERAL APPLICATION INFORMATION

Name of Applicant/Permittee/("applicant")
(non-corporations-attach documentation of legal name)

Specialty Granules LLC

Address 13424 Pennsylvania Ave.
Suite 303

Telephone 301-733-4000 Taxpayer ID# 22-3807370

Permit, Plan Approval or Application ID# 01-5016

Identify the form of management under which the applicant conducts its business (check appropriate box)

☐ Individual ☐ Syndicate ☐ Government Agency
☐ Municipality ☐ Municipal Authority ☐ Joint Venture
☐ Proprietorship ☐ Fictitious Name ☐ Association
☐ Public Corporation ☐ Partnership ☐ Other Type of Business, specify below:
☒ Private Corporation ☐ Limited Partnership

Describe below the type(s) of business activities performed.

Specialty Granules LLC (SGI) is a leading aggregates and mining company supplying specialized products to the North American building materials industry. SGI has 4 plants strategically located, nationwide. SGI's "Charmian" plant is located in Blue Ridge Summit, Pennsylvania. The Charmian facility contains an open pit quarry that mines meta-basalt rock, which is crushed and screened to produce raw granule production feedstock. These raw granules are then either converted into colored roofing granules or headlap, uncolored granules used on the unexposed section of shingles.

SECTION B. GENERAL INFORMATION REGARDING "APPLICANT"

If applicant is a corporation or a division or other unit of a corporation, provide the names, principal places of business, state of incorporation, and taxpayer ID numbers of all domestic and foreign parent corporations (including the ultimate parent corporation), and all domestic and foreign subsidiary corporations of the ultimate parent corporation with operations in Pennsylvania. Please include all corporate divisions or units, (whether incorporated or unincorporated) and privately held corporations. (A diagram of corporate relationships may be provided to illustrate corporate relationships.) Attach additional sheets as necessary.

Unit Name	Principal Places of Business	State of Incorporation	Taxpayer ID	Relationship to Applicant
Specialty Granules Holdings, LLC	Maryland	Delaware	26-2878524	Sole Member/Parent
Standard Industries Inc.	New Jersey	Delaware	22-3276290	Grandparent
Standard Industries Holdings, Inc.	Delaware	Delaware	51-0393774	Great Granparent
G-I Holdings Inc	New Jersey	Delaware	22-2934562	Parent of Standard Industries Holdings Inc.
G-Holdings LLC	New Jersey	Delaware	26-0006169	Majority Shareholder of G-I Holdings Inc.
G-Holdings Inc	New Jersey	Deleware	47-5554184	Parent of G-Holdings LLC
Elk Corporation of Texas	Texas	Nevada	74-1925368	Affiliate
GAF Premium Products Inc.	New Jersey	Delaware	22-3383680	Affiliate
GAF Keystone	PA	Deleware	81-3158452	Affiliate

SECTION C. SPECIFIC INFORMATION REGARDING APPLICANT AND ITS "RELATED PARTIES"

Pennsylvania Facilities. List the name and location (mailing address, municipality, county), telephone number, and relationship to applicant (parent, subsidiary or general partner) of applicant and all Related Parties' places of business, and facilities in Pennsylvania. Attach additional sheets as necessary.

Unit Name	Street Address	County and Municipality	Telephone No.	Relationship to Applicant
Charmian Facility	1455 Old Waynesboro Rd.	Adams/Hamiltonban Township	724-794-2184	Applicant
Elk Corporation of Texas	401 Weavertown Road	Lebanon County/Myerstown	717-866-8300	Affiliate
GAF Premium Products Inc.	440 Katherine Road	North Hampton County/Wind Gap	610-863-7624	Affiliate
GAF Keystone LLC	2093 Old Route 15	Union County/New Columbia	912-795-2267	Affiliate

Provide the names and business addresses of all general partners of the applicant and parent and subsidiary corporations, if any.

Name	Business Address
Specialty Granules Holdings LLC	13424 Pennsylvania Ave - Suite 303, Hagerstown, MD 21742
Specialty Granules (Charmian) LLC	13424 Pennsylvania Ave - Suite 303, Hagerstown, MD 21742
Specialty Granules Investments LLC	1 Campus Dr., Parsippany, NJ 07054
Specialty Granules (Ione) LLC	13424 Pennsylvania Ave - Suite 303, Hagerstown, MD 21742
Mining Holdings (California) LLC	13424 Pennsylvania Ave - Suite 303, Hagerstown, MD 21742

List the names and business address of persons with overall management responsibility for the process being permitted (i.e. plant manager).

Name	Business Address
James M. Cahill	1455 Old Waynesboro Rd., Blue Ridge Summit PA, 17214

Plan Approvals or Operating Permits. List all plan approvals or operating permits issued by the Department or an approved local air pollution control agency under the APCA to the applicant or related parties that are currently in effect or have been in effect at any time 5 years prior to the date on which this form is notarized. This list shall include the plan approval and operating permit numbers, locations, issuance and expiration dates. Attach additional sheets as necessary.

Air Contamination Source	Plan Approval/ Operating Permit#	Location	Issuance Date	Expiration Date
Charmian Plant	01-05016	Blue Ridge Summit, PA	3/31/2013	3/31/2018
TPO Manufacturing Plant	60-0024A	14911 Quorum Dr. Suite 600 Dallas, TX 75254-1491	10/26/2016	4/26/2018
Roofing Shingle Manufacturing Plant	38-03029	401 Weavertown Rd. Myerstown, PA 17067	7/24/2012	7/31/2017
Cement Siding Manufacturing Plant	48-00029	440 Katherine Road, Wind Gap, PA 18091	6/4/2015	6/14/2020

Compliance Background. (Note: Copies of specific documents, if applicable, must be made available to the Department upon its request.) List all documented conduct of violations or enforcement actions identified by the Department pursuant to the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. Attach additional sheets as necessary. See the definition of "documented conduct" for further clarification. Unless specifically directed by the Department, deviations which have been previously reported to the Department in writing, relating to monitoring and reporting, need not be reported.

Date	Location	Plan Approval/ Operating Permit#	Nature of Documented Conduct	Type of Department Action	Status: Litigation Existing/Continuing or Corrected/Date	Dollar Amount Penalty
11/10/14	Charmian	01-05016	Fugitive Emissions	Notice of Violation	Corrected 10/30/14	\$1125.00
						\$
						\$
						\$
						\$
						\$
						\$
						\$
						\$
						\$

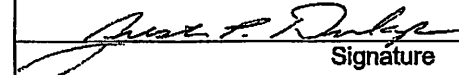
List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of "deviations" for further clarification.

Date	Location	Plan Approval/ Operating Permit#	Nature of Deviation	Incident Status: Litigation Existing/Continuing Or Corrected/Date
None				

CONTINUING OBLIGATION. Applicant is under a continuing obligation to update this form using the Compliance Review Supplemental Form if any additional deviations occur between the date of submission and Department action on the application.

VERIFICATION STATEMENT

Subject to the penalties of Title 18 Pa.C.S. Section 4904 and 35 P.S. Section 4009(b)(2), I verify under penalty of law that I am authorized to make this verification on behalf of the Applicant/Permittee. I further verify that the information contained in this Compliance Review Form is true and complete to the best of my belief formed after reasonable inquiry. I further verify that reasonable procedures are in place to ensure that "documented conduct" and "deviations" as defined in 25 Pa Code Section 121.1 are identified and included in the information set forth in this Compliance Review Form.

	7-26-2017
Justin P. Dunlap	Date
Signature	
Name (Print or Type)	
President	
Title	

Attachment to Air Quality Permit Renewal Application:
Regulatory Applicability Questionnaire



- 1.) For any pieces of non-metallic mineral processing equipment at your quarry, please include the following with your permit renewal application (This information is intended to assist DEP in clarifying which units are subject to which provisions in NSPS Subpart OOO):

SEE ATTACHED POINT SOURCES

- name of unit
- description of unit
- manufacture date of unit

- 2.) Does your facility have any boilers? (this relates to 40 CFR Part 63, Subpart JJJJJJ) if so, please provide the following:

NO BOILERS PRESENT

- year of installation
- Btu rating
- fuel type
- copy of Subpart JJJJJJ initial notification –
- copy of Subpart JJJJJJ notification of compliance status

- 3.) Does your facility have any generators (emergency or otherwise)? (this relates to 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 60, Subparts IIII and JJJJ) if so, please provide the following:

1 Unit being installed in 2017

- year of installation: **2017**
- horsepower rating: **601**
- fuel type: **Diesel**
- statement whether each unit is spark ignition or Compression ignition **See Attached Information**
- statement whether each unit is for emergency use or not **See Attached Information**
- statement whether each unit is considered a "non-road engine" or not (and why) **See Attached Information**
- copy of Tier 1, 2, 3 or 4 certification paperwork for each unit **See Attached Information**

Specialty Granules Inc.
Hamiltonban Township, Adams County
PM 10 & PM 2.5 Calculations - **Point Sources**

Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	Emission Factors		Captured Emissions		
					E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr	
QUARRY AND PRIMARY CRUSHING									
All Fugitive Emissions									
Sources: 201, 200B, 199, 202									
CONTROLLED WITH WATER SPRAYS									
All Fugitive Emissions									
Total Primary									
INTERMEDIATE CRUSHING									
SOURCE 510									
CONTROL COLLECTOR: DONALDSON "H" J01									
510	910 Conveyor	0.95	300	5066	0.0011	0.0001	0.794	0.079	
510	977 Conveyor	0.95	300	5066	0.0011	0.0001	0.794	0.079	
510	8 x 24 screen	0.98	300	5066	0.0087	0.0009	6.479	0.648	
510	987 Conveyor	0.95	300	5066	0.0011	0.0001	0.794	0.079	
510	199 Elevator	0.99	300	5066	0.0011	0.0000	0.828	0.010	
510	979 Conveyor	0.95	300	5066	0.0011	0.0001	0.794	0.079	
510	5 1/2 Cone Crusher	0.98	300	5066	0.0024	0.0002	1.787	0.179	
SOURCE 208, 209									
CONTROL COLLECTORS: TORIT DAY "I" D08									
208	442 Conveyor	0.95	120	1.000	0.001	0.0001	0.000	0.000	
208	443 Conveyor	0.95	160	1.000	0.001	0.0001	0.000	0.000	
208	CD7 Conveyor	0.95	280	1.000	0.001	0.0001	0.000	0.000	
208	Dryer	0.995	120	1.000	1.460	0.830	0.087	0.050	
208	11 Elevator	0.99	300	5066	0.001	0.0001	0.828	0.083	
209	Rock Silos, 1C and 3C	0.99	300	5066	0.001	0.0001	0.828	0.083	
SOURCE 015									
CONTROL COLLECTORS: AZTEC 435 C015C									
015	990 Conveyor	0.95	300	5066	0.001	0.0001	0.794	0.079	
015	Dryer #400	0.995	300	5066	1.460	0.830	1103.9	627.6	
015	991 Conveyor	0.95	300	5066	0.001	0.0001	0.794	0.079	

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 218, 208								
CONTROL COLLECTOR: SINGLE PULSE KING M100 D02								
218	198 Elevator	0.99	400	5066	0.001	0.0001	1.103	0.110
218	138 Screen	0.98	180	5066	0.009	0.0009	3.887	0.389
208	45 Conveyor	0.95	280	1	0.001	0.0001	0.000	0.000
SOURCE 216, 218								
CONTROL COLLECTOR: CARTERDAY F D09								
218	136 Screen (200)	0.98	400	5066	0.009	0.0009	8.639	0.864
218	Feeder 300 crusher	0.98	120	5066	0.002	0.0002	0.715	0.071
218	Feeder 310 crusher	0.98	120	5066	0.002	0.0002	0.715	0.071
218	Feeder 320 crusher	0.98	120	5066	0.002	0.0002	0.715	0.071
218	Feed Bin for 310/320	0.99	160	5066	0.002	0.0002	0.963	0.096
218	300 VS/4G VSI Crusher (340 V	0.98	250	5066	0.002	0.0002	1.489	0.149
218	transfer box 310/320	0.99	160	5066	0.001	0.0001	0.441	0.044
216	3C Conveyor	0.95	150	5066	0.001	0.0001	0.397	0.040
216	9C Conveyor	0.95	150	5066	0.001	0.0001	0.397	0.040
SOURCE 216, 218								
CONTROL COLLECTOR: DOUBLE PULSE KING M200 D04								
218	48" gyradisc 310	0.98	160	5044	0.002	0.0002	0.949	0.095
218	957 Conveyor	0.95	160	5066	0.001	0.0001	0.424	0.042
218	958 conveyor	0.95	160	5066	0.001	0.0001	0.424	0.042
218	956 Conveyor	0.95	160	5066	0.001	0.0001	0.424	0.042
218	Feeder 300 crusher alt	0.98	120	5066	0.001	0.0001	0.328	0.033
216	17C Conveyor TP	0.95	60	5066	0.001	0.000	0.159	0.016
SOURCE 218, 402								
CONTROL COLLECTOR: CARTERDAY B H01								
402A	Hopper for 300	0.99	250	5066	0.001	0.0001	0.690	0.069
402A	52C Conveyor	0.95	250	5066	0.001	0.0001	0.662	0.066
402A	REMCO 300 VS/4G	0.98	250	5066	0.002	0.0002	1.489	0.149
402A	53C Conveyor	0.95	250	5066	0.001	0.0001	0.662	0.066
402A	20 Elevator	0.99	250	5066	0.001	0.0001	0.690	0.069
402A	GPS Screen	0.98	250	5066	0.009	0.0009	5.399	0.540
402A	51C Conveyor	0.95	250	5066	0.001	0.0001	0.662	0.066
402A	54C Conveyor	0.95	250	5066	0.001	0.0001	0.662	0.066
218	50C Conveyor	0.95	250	5066	0.001	0.0001	0.662	0.066
218	46C Conveyor	0.95	250	5066	0.001	0.0001	0.662	0.066

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 210, 213, 215A CONTROL COLLECTOR: JOHNSON MARCH A					D10			
MILL CRUSHING								
210	#980 waste conveyor (old 55)	0.95	100	5044	0.001	0.0001	0.264	0.026
210	3 Bin	0.99	100	5044	0.001	0.0001	0.275	0.027
210	4 Feeder	0.95	60	5044	0.001	0.0001	0.158	0.016
210	4 Screen	0.98	75	5044	0.009	0.0009	1.613	0.161
210	5 Screen	0.98	75	5044	0.009	0.0009	1.613	0.161
210	2 Screen	0.98	75	5044	0.009	0.0009	1.613	0.161
210	3 Screen	0.98	75	5044	0.009	0.0009	1.613	0.161
210	6 Screen	0.98	75	5044	0.009	0.0009	1.613	0.161
210	7 Screen	0.98	75	5044	0.009	0.0009	1.613	0.161
210	8 Screen	0.98	75	5044	0.009	0.0009	1.613	0.161
210	37 Screen	0.98	40	5044	0.009	0.0009	0.860	0.086
210	11 Screen	0.98	40	5044	0.009	0.0009	0.860	0.086
210	16 Screen	0.98	40	5044	0.009	0.0009	0.860	0.086
210	41C Conveyor	0.95	100	5044	0.001	0.0001	0.264	0.026
210	8C Conveyor	0.95	100	5044	0.001	0.0001	0.264	0.026
210	31 Screen	0.98	30	5044	0.009	0.0009	0.645	0.065
210	32 Screen	0.98	30	5044	0.009	0.0009	0.645	0.065
210	33 Screen	0.98	30	5044	0.009	0.0009	0.645	0.065
210	9 Elevator	0.99	60	5044	0.001	0.0001	0.165	0.016
210	#200 waste elevator (old #8)	0.99	60	5044	0.001	0.0001	0.165	0.016
215A	TCM Bins(1, 2, 4A, 4B, 5)	0.99	60	1	0.001	0.0001	0.000	0.000
213	Gran Silos 2C, 4C and Tanks 3, 4	0.99	100	5044	0.001	0.0001	0.275	0.027

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 211, 403								
CONTROL COLLECTOR: JOHNSON MARCH B				D11				
211	2 Bin	0.99	100	5044	0.001	0.0001	0.275	0.028
211	16 Spill Box	0.99	100	5044	0.001	0.0001	0.275	0.028
211	14 Spill Box	0.99	100	5044	0.001	0.0001	0.275	0.028
211	13 Feeder	0.95	60	5044	0.001	0.0001	0.158	0.017
211	19 Screen	0.98	75	5044	0.009	0.0009	1.613	0.165
211	20 Screen	0.98	75	5044	0.009	0.0009	1.613	0.165
211	21 Screen	0.98	75	5044	0.009	0.0009	1.613	0.165
211	22 Screen	0.98	75	5044	0.009	0.0009	1.613	0.165
211	23 Screen	0.98	75	5044	0.009	0.0009	1.613	0.165
211	24 Screen	0.98	75	5044	0.009	0.0009	1.613	0.165
211	15 Spill box	0.99	75	5044	0.009	0.0009	1.629	0.165
211	25 Screen	0.98	60	5044	0.009	0.0009	1.290	0.132
211	26 Screen	0.98	60	5044	0.009	0.0009	1.290	0.132
211	27 Screen	0.98	60	5044	0.009	0.0009	1.290	0.132
211	18 Elevator	0.99	15	5044	0.001	0.0001	0.041	0.004
403	Fines Slide B	0.95	16	5044	0.001	0.0001	0.042	0.004
403	Fines Slide J-Ms	0.95	16	5044	0.001	0.0001	0.042	0.004
403	Fines Slide J-Ms	0.95	16	5044	0.001	0.0000	0.042	0.004
SOURCE 210, 211, 217								
CONTROL COLLECTOR: TORIT DONALDSON				C106				
484 RFW12AW BH500								
210	57 Conveyor	0.95	100	5044	0.001	0.0001	0.264	0.026
210	22 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
210	5 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
210	4 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
210	6 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
210	7 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
211	56 Conveyor	0.95	100	5044	0.001	0.0001	0.264	0.026
211	21 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
211	13 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
211	16 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
211	14 Elevator	0.99	100	5044	0.001	0.0001	0.275	0.027
211	15 Elevator	0.99	75	5044	0.001	0.0001	0.206	0.021
211	19 Conveyor	0.95	130	5044	0.001	0.0001	0.343	0.034
217	Conveyor 987	0.95	40	5044	0.001	0.0001	0.105	0.011

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 210A & 211B, 403								
CONTROL COLLECTOR: DONALDSON 484RF12AW D12								
210A	1 Feed Box	0.99	80	5044	0.001	0.0001	0.220	0.022
210A	2 Feed Box	0.99	80	5044	0.001	0.0001	0.220	0.022
210A	3 Feed Box	0.99	80	5044	0.001	0.0001	0.220	0.022
210A	1 Roll Crusher	0.98	80	5044	0.002	0.0002	0.475	0.047
210A	2 Roll Crusher	0.98	80	5044	0.002	0.0002	0.475	0.047
210A	3 Roll Crusher	0.98	80	5044	0.002	0.0002	0.475	0.047
211B	8 Feed Box	0.99	80	5044	0.001	0.0001	0.220	0.022
211B	9 Feed Box	0.99	80	5044	0.001	0.0001	0.220	0.022
211B	10 Feed Box	0.99	80	5044	0.001	0.0001	0.220	0.022
211B	8 Roll Crusher	0.98	80	5044	0.002	0.0002	0.475	0.047
211B	9 Roll Crusher	0.98	80	5044	0.002	0.0002	0.475	0.047
211B	10 Roll Crusher	0.98	80	5044	0.002	0.0002	0.475	0.047
403	Fines Screw H	0.95	10	5044	0.001	0.0001	0.026	0.003
SOURCE 216, 403								
CONTROL COLLECTOR: TORIT DAY "G" D09 D16								
216	945 Conveyor	0.95	150	5044	0.001	0.0001	0.416	0.042
216	195 Elevator	0.99	150	5044	0.001	0.0001	0.416	0.042
216	905 Screen	0.98	75	5044	0.009	0.0009	1.646	0.165
216	910 Screen	0.98	75	5044	0.009	0.0009	1.646	0.165
216	985 Conveyor	0.95	75	5044	0.001	0.0001	0.208	0.021
216	578 Hopper	0.99	100	5044	0.001	0.0001	0.277	0.028
216	365 Feeder	0.95	100	5044	0.001	0.0001	0.277	0.028
216	260 Rotary Oiler*	0.98	100	5044	0.001	0.0001	0.277	0.028
216	915 Screen*	0.98	100	5044	0.009	0.0009	2.194	0.219
216	Screw* 182	0.95	5	5044	0.001	0.0001	0.014	0.001
216	950 Conveyor*	0.95	100	5044	0.001	0.0001	0.277	0.028
216	Fines Conv. Slide	0.95	10	5044	0.001	0.0001	0.028	0.003
216	336 Elevator	0.99	10	5044	0.001	0.0001	0.028	0.003
216	5B Conveyor	0.95	150	5044	0.001	0.0001	0.416	0.042
403	Fines Slide C-D	0.95	16	5044	0.001	0.000	0.044	0.004
SOURCE 216								
CONTROL COLLECTOR: CARTERDAY 72RJ60 "A" F04								
216	49C Conveyor*	0.95	100	5044	0.001	0.0001	0.264	0.026
216	Silo 1 Natural*	0.99	100	5044	0.001	0.0001	0.275	0.027
SOURCE 403								
CONTROL COLLECTOR: CARTERDAY "C" 72RJ37 H03								
403	19 Conveyor	0.95	130	5044	0.001	0.0001	0.343	0.034
403	58 Conveyor	0.95	130	5044	0.001	0.0001	0.343	0.034

						Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr	
SOURCE 403 CONTROL COLLECTOR: CARTERDAY "D" 72RJ48 H02									
403	Fines Silos, 1 and 2	0.99	130	5044	0.001	0.0001	0.357	0.036	
S404									
Total Intermediate Crushing									

COLORING PLANT

SOURCE 317, 401B, 302 CONTROL COLLECTOR: DONALDSON 484RF #440 C104								
302	961B Conveyor	0.95	150	5456	0.001	0.0001	0.428	0.043
302	7B Conveyor	0.95	150	6706	0.001	0.0001	0.526	0.053
302	9B Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
302	12B Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
302	13B Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
302	14B Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
302	11B Elevator	0.99	80	5456	0.001	0.0001	0.238	0.024
302	Granules Silos Green and Grey	0.99	100	5456	0.001	0.0001	0.297	0.030
401B	COLLECTOR FINES elevator	0.99	40	5456	0.001	0.0001	0.119	0.012
317	#4 Fines Tank	0.99	40	5456	0.001	0.000 0.0000	0.119	0.012

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 302,303,304,317,401B								
CONTROL COLLECTOR: DONALDSON 484RF #445 C105								
302	7B Elevator	0.99	80	5456	0.001	0.0001	0.238	0.024
302	7B Screen	0.98	80	5456	0.009	0.0009	1.861	0.186
302	55K Bin	0.99	80	5456	0.001	0.0001	0.238	0.024
302	55K Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
302	6B Screen	0.98	80	5456	0.009	0.0009	1.861	0.186
302	56K Bin	0.99	80	5456	0.001	0.0001	0.238	0.024
302	5930 Feeder	0.95	80	5456	0.001	0.0001	0.228	0.023
302	50K Conveyor OUT	0.95	100	1	0.001	0.0001	0.000	0.000
302	16B Conveyor OUT	0.95	100	1	0.001	0.0001	0.000	0.000
302	8B ext. Conveyor OUT	0.95	100	1	0.001	0.0001	0.000	0.000
303	1D Preheater	0.995	80	5456	1.460	0.830	317.0	180.2
303	1D Elevator	0.99	80	5456	0.001	0.0001	0.238	0.024
303	2D Elevator	0.99	80	5456	0.001	0.0001	0.238	0.024
303	1D Hopper	0.99	80	5456	0.001	0.0001	0.238	0.024
303	3D Hopper	0.99	80	5456	0.001	0.0001	0.238	0.024
304	2D Preheater	0.995	80	5456	1.460	0.830	317.037	180.234
401B	46 Conveyor G-11	0.95	80	2011	0.001	0.0001	0.084	0.008
317	35K Screw PANG 6 OUT	0.95	50	1	0.001	0.0001	0.000	0.000
317	34K Screw PANG 5 OUT	0.95	50	1	0.001	0.0001	0.000	0.000

Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	Emission Factors		Captured Emissions		
					E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr	
SOURCE 302,317,401B									
CONTROL COLLECTOR: CARTERDAY E 232RF8 H04									
TENNIS COURT MATERIAL PROCESS									
317	Binder Storage	0.99	30	1	0.001	0.0001	0.000	0.000	
317	TCM Bin 2 and 3	0.99	150	1	0.001	0.0001	0.000	0.000	
317	1 Bin Binder	0.99	10	1	0.001	0.0001	0.000	0.000	
317	1 Screw Binder	0.95	10	1	0.001	0.0001	0.000	0.000	
317	2 Screw Binder	0.95	10	1	0.001	0.0001	0.000	0.000	
317	4B Screw Binder	0.95	10	1	0.001	0.0001	0.000	0.000	
317	Recycle feeder	0.95	10	1	0.001	0.0001	0.000	0.000	
317	Recycle feeder	0.95	10	1	0.001	0.0001	0.000	0.000	
317	2T Binder Elevator	0.99	45	1	0.001	0.0001	0.000	0.000	
317	TCM Hopper	0.99	45	1	0.001	0.0001	0.000	0.000	
317	1T Mixer	0.95	45	1	0.001	0.0001	0.000	0.000	
317	44K Screw	0.95	50	1	0.001	0.0001	0.000	0.000	
317	43K Screw 30'	0.95	50	1	0.001	0.0001	0.000	0.000	
317	C-D Screw 40'	0.95	50	1	0.001	0.0001	0.000	0.000	
317	Fines Loading	0.95	50	5456	0.000	0.0000	0.013	0.001	
317	Fines air slide	0.95	50	5456	0.000	0.0000	0.013	0.001	
317	Fines Tank	0.99	100	5456	0.000	0.0000	0.027	0.003	
317	3B Elevator G-11	0.99	45	5456	0.001	0.0001	0.134	0.013	
302	12B ELEVATOR	OUT	0.99	100	1	0.001	0.0001	0.000	0.000
302	18K Elevator	OUT	0.99	100	1	0.001	0.0001	0.000	0.000
401B	3T Conveyor G-11	0.95	80	2011	0.001	0.0001	0.084	0.008	
401B	Hopper G-11	0.99	80	2011	0.001	0.0001	0.088	0.009	
401B	Feeder G-11	0.95	80	2011	0.001	0.0001	0.084	0.008	
401B	Oiler G-11*	0.95	80	2011	0.001	0.0001	0.107	0.011	

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 303, 305A								
CONTROL COLLECTOR: DONALDSON #3 BAGHOUSE G01								
303	2D Hopper	0.99	80	5456	0.001	0.0001	0.238	0.024
305A	1 Feeder	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	2 Feeder	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	3 Feeder	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	1 Paint Mixer	0.95	57	5456	0.001	0.0001	0.074	0.007
305A	2 Paint Mixer	0.95	57	5456	0.001	0.0001	0.074	0.007
305A	3 Paint Mixer	0.95	57	5456	0.001	0.0001	0.074	0.007
305A	1 Aerator	0.98	57	5456	1.460	0.830	222.5	126.5
305A	2 Aerator	0.98	57	5456	1.460	0.830	222.5	126.5
305A	3 Aerator	0.98	57	5456	1.460	0.830	222.5	126.5
305A	4D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	1D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	2D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	3D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	Fuel Burning System					0.0000		
	Aux Burner							
305A	1 Paint	0.95	0	5456	0.001	0.0001	0.001	0.000
SOURCE 305A,309,311A								
CONTROL COLLECTOR: DONALDSON #2 BAGHOUSE G03								
305A	52 Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
311A	1D Feeder	0.95	100	5456	0.001	0.0001	0.285	0.029
311A	Pan Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
311A	42D Conveyor	0.95	65	5456	0.001	0.0001	0.185	0.019
311A	12 Elevator	0.99	65	5456	0.001	0.0001	0.193	0.019
311A	19 Elevator	0.99	65	5456	0.001	0.0001	0.193	0.019
311A	20 Elevator	0.99	65	5456	0.001	0.0001	0.193	0.019
311A	1D Oiler Screen	0.98	100	5456	0.009	0.0009	2.326	0.233
311A	24K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
311A	1D Oiler*	0.95	100	5456	0.001	0.0001	0.363	0.036
311A	1D Oiler Bin	0.99	100	5456	0.001	0.0001	0.297	0.030
311A	3D Transfer Bin	0.99	80	5456	0.001	0.0001	0.238	0.024
311A	5 Kiln	0.995	43	5456	1.460	0.830	170.4	96.9
311A	1D Transfer Bin	0.99	80	5456	0.001	0.0001	0.238	0.024
305A	6D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	9D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	5D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	7D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
305A	8D Conveyor	0.95	80	5456	0.001	0.0001	0.228	0.023
309	3 Kiln	0.995	43	5456	1.460	0.830	170.4	96.9

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 308A								
CONTROL COLLECTOR: DONALDSON #1 BAGHOUSE					G05			
308A	10D Conveyor	0.95	100	5456	0.001	0.0001	0.300	0.030
308A	8 Elevator	0.99	100	5456	0.001	0.0001	0.300	0.030
308A	17 Elevator	0.99	100	5456	0.001	0.0001	0.300	0.030
308A	Waste Elevator	0.99	0	5456			0.000	0.000
308A	9K Conveyor	0.95	100	5456	0.001	0.0001	0.300	0.030
308A	2D Oiler*	0.95	100	5456	0.001	0.0001	0.363	0.036
308A	2D Transfer Bin	0.99	80	5456	0.001	0.0001	0.238	0.024
308A	2D Oiler Bin	0.99	100	5456	0.001	0.0001	0.297	0.030
308A	2D Oil Screen	0.98	100	5456	0.009	0.0009	2.326	0.233
308A	2D Feeder	0.95	100	5456	0.001	0.0001	0.285	0.029
308A	2 Kiln	0.995	43	5456	1.460	0.830	170.4	96.9
308A	4 Kiln	0.995	43	5456	1.460	0.830	170.4	96.9
308A	Kiln Gas Burning	0.995						
S319								
SOURCE 308A, 309,311A, 302								
CONTROL COLLECTOR: FISHER KLOSTERMAN #4 SCRUBBER					G02			
309	6 Cooler	0.98	80	5456	0.001	0.0001	0.107	0.011
311A	5 Cooler	0.98	80	5456	0.001	0.0001	0.107	0.011
308A	1 Cooler	0.98	80	5456	0.001	0.0001	0.107	0.011
302	40 Screen	0.98	80	5456	0.009	0.0009	1.861	0.186

						Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr	
* OILED GRANULES HANDLED BY THE FOLLOWING EQUIPMENT:									
GRANULE SHIPPING									
317	waste bin conv.*	0.95	30	5456	0.001	0.0001	0.086	0.009	
317	Drag Conv.*	0.95	38	5456	0.001	0.0001	0.108	0.011	
317	Drag conv. Inclined*	0.95	38	5456	0.001	0.0001	0.108	0.011	
213B	3D Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	47K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	15K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	20K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	4K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	16K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	25K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	32K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	33K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	Recycle Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	Recycle conveyor*	0.95	20	5456	0.001	0.0001	0.057	0.006	
213B	9K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	6K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	7K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	14K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	26K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	12K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	36K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	Finished Silos*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	17K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	18K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	Granule Bins for Bag*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	Recycle Bins	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	14K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	Granules Bagger*	0.95	20	5456	0.000	0.0000	0.005	0.001	
213B	13K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	53K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	7K Screen*	0.98	100	5456	0.009	0.0009	2.326	0.233	
213B	45K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	7K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030	
213B	6K Screen*	0.98	100	5456	0.009	0.0009	2.326	0.233	
213B	11K Conveyor*	0.98	100	5456	0.001	0.0001	0.294	0.029	
213B	19K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	5K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	Railroad Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	49K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	59K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	22K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	16K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	
213B	27K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029	

Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	Emission Factors		Captured Emissions	
					E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
213B	28K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	30K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	31K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	15K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	22K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030
213B	38K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	37K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	52K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	86K Elevator*	0.99	100	5456	0.001	0.0001	0.297	0.030
213B	92K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	91K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	90K Conveyor*	0.95	100	5456	0.001	0.0001	0.285	0.029
213B	36K Screen*	0.95	100	5456	0.009	0.0009	2.255	0.225
213B	Granules Loading*	0.95	100	5456	0.000	0.0000	0.026	0.003
Total Coloring Plant								

HEADLAP PLANT
Crushing/screening

SOURCE 515
CONTROL COLLECTOR: DC 101

515	C102 conveyor	0.95	250	3215	0.001	0.0001	0.442	0.044
515	dryer	0.995	200	3215	1.460	0.830	469.390	266.845
515	BE101 elevator	0.99	350	3215	0.001	0.0001	0.619	0.062
515	C103 Conveyor	0.95	250	3215	0.001	0.0001	0.442	0.044

SOURCE 520
CONTROL COLLECTOR: DC 102

520	SCR101 TD screen	0.98	340	3215	0.009	0.0009	4.755	0.475
520	CR101 crusher	0.98	250	3215	0.002	0.0002	0.965	0.096
520	B101 bin	0.99	90	3215	0.001	0.0001	0.159	0.016
520	BF101 feeder conv.	0.95	90	3215	0.001	0.0001	0.151	0.015
520	BE102 elevator	0.99	330	3215	0.001	0.000	0.578	0.058
520	B102 bin	0.99	250	3215	0.001	0.0001	0.438	0.044
520	BF102	0.95	125	3215	0.001	0.0001	0.210	0.021
520	BF103	0.95	125	3215	0.001	0.0001	0.210	0.021
520	CR102 crusher	0.98	250	3215	0.002	0.0002	0.945	0.095
520	CR103 crusher	0.98	250	3215	0.002	0.0002	0.945	0.095
520	C104 conveyor	0.98	240	3215	0.001	0.0001	0.416	0.042

					Emission Factors		Captured Emissions	
Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
SOURCE 525								
CONTROL COLLECTOR: DC 103								
525	C105 conveyor	0.95	230	3215	0.001	0.0001	0.386	0.039
525	SCR102 screen	0.98	96	3215	0.009	0.0009	1.316	0.132
525	SCR103 screen	0.98	96	3215	0.009	0.0009	1.316	0.132
525	SCR104 screen	0.98	96	3215	0.009	0.0009	1.316	0.132
525	SCR105 screen	0.98	96	3215	0.009	0.0009	1.316	0.132
525	C106 conveyor	0.95	250	3215	0.001	0.0001	0.420	0.042
525	SCR 106 screen	0.98	98	3215	0.009	0.0009	1.343	0.134
525	SCR 107 screen	0.98	98	3215	0.009	0.0009	1.343	0.134
525	B103 bin	0.99	100	3215	0.001	0.0001	0.175	0.018
525	B104 bin	0.99	100	3215	0.001	0.0001	0.175	0.018
525	C108 conveyor	0.95	250	3215	0.001	0.0001	0.420	0.042
525	BE103 elevator	0.99	350	3215	0.001	0.0001	0.613	0.061
525	B105 bin	0.99	100	3215	0.001	0.0001	0.175	0.018
525	B106 bin	0.99	100	3215	0.001	0.0001	0.175	0.018
525	C109 conveyor	0.95	250	3215	0.001	0.0001	0.420	0.042
525	BE105	0.99	20	3215	0.001	0.0001	0.035	0.004
525	BE106	0.99	20	3215	0.001	0.0001	0.035	0.004
525	BE104 elevator	0.99	350	3215	0.001	0.0001	0.613	0.061
OILING SYSTEM								
525	surge bin	0.99	100	3215	0.001	0.0001	0.175	0.018
525	feeder	0.95	100	3215	0.001	0.0001	0.168	0.017
525	rotary oiler*	0.95	100	3215	0.001	0.0001	0.214	0.021
525	screen*	0.98	100	3215	0.001	0.0001	0.117	0.012
525	reject bin*	0.99	100	3215	0.000	0.0000	0.007	0.001
* OILED PRODUCT								
WATER SPRAYS								
SOURCE 530								
CONTROL COLLECTOR: DC 104								
SHIPPING TANKS								
530	C110 conveyor*	0.95	250	3215	0.00005	0.000005	0.018	0.002
530	B110 bin*	0.99	100	3215	0.00005	0.000005	0.007	0.001
530	B111 bin*	0.99	100	3215	0.00005	0.000005	0.007	0.001
Total Headlap Plant								
UNDERSIZE MATERIAL PROCESSING PLANT								
Screening								
SOURCE 420								
CONTROL COLLECTOR: TORIT BAGHOUSE DC 530								
420	143 bin	0.99	75	3215	0.001	0.0001	0.131	0.013
420	400 screen	0.98	30	3215	0.009	0.0009	0.411	0.041
420	405 screen	0.98	30	3215	0.009	0.0009	0.411	0.041
420	916 conveyor	0.95	100	3215	0.001	0.0001	0.168	0.017
420	917 conveyor	0.95	100	3215	0.001	0.0001	0.168	0.017
420	918 conveyor	0.95	100	3215	0.001	0.0001	0.168	0.017
420	919 conveyor	0.95	100	3215	0.001	0.0001	0.168	0.017
420	920 conveyor	0.95	100	3215	0.001	0.0001	0.168	0.017

Source ID	Source Name	Capture Efficiency	Max Thru Tons/Hour	Op Hrs	Emission Factors		Captured Emissions	
					E.F. (PM-10) lbs/ton	E.F. (PM2.5) lbs/ton	PTE (PM10) ton/yr	PTE (PM2.5) ton/yr
420	925 conveyor	0.95	100	3215	0.001	0.0001	0.168	0.017
420	410 elevator	0.99	150	3215	0.001	0.0001	0.263	0.026
420	420 elevator	0.99	80	3215	0.001	0.0001	0.140	0.014
420	430 elevator	0.99	80	3215	0.001	0.0001	0.140	0.014
420	440 elevator	0.99	80	3215	0.001	0.0001	0.140	0.014
420B	510 air classifier	0.98	75	3215	0.010	0.0010	1.229	0.123
OILING SYSTEM								
420	144 bin	0.99	80	3215	0.001	0.0001	0.140	0.014
420	145 bin	0.99	80	3215	0.001	0.0001	0.140	0.014
420	425 feeder	0.95	80	3215	0.001	0.0001	0.134	0.013
420	426 feeder	0.95	80	3215	0.001	0.0001	0.134	0.013
420	187 screw conveyor*	0.95	80	3215	0.000	0.0000	0.006	0.001
420	410 screen*	0.98	80	3215	0.001	0.0001	0.093	0.009
	* OILED PRODUCT							
SHIPPING TANKS								
420	146 silo*	0.99	100	174	0.00005	0.000005	0.000	0.000
420	147 silo*	0.99	100	174	0.00005	0.000005	0.000	0.000
420	148 silo*	0.99	100	174	0.00005	0.000005	0.000	0.000
420	921 conveyor*	0.95	100	3215	0.00005	0.000005	0.007	0.000
420	922 conveyor	0.95	100	3215	0.00005	0.000005	0.007	0.000
420	923 conveyor*	0.95	100	3215	0.00005	0.000005	0.007	0.000
420	924 conveyor*	0.95	100	3215	0.00005	0.000005	0.007	0.000
420	450 elevator*	0.99	80	3215	0.00005	0.000005	0.006	0.000
420	460 elevator*	0.99	100	3215	0.00005	0.000005	0.007	0.001
Total Undersize Material Processing Plant								
Total Facility Point Source PM							0.000	0.000

NOTE: an asterisk, "*" following a source name denotes that the product has been oiled prior to being handled by the specified equipment.



SPECIALTY GRANULE, LLC

PO Box O // Blue Ridge Summit, PA 17214 // Tel: 717-794-2184 // Fax: 717-794-5248

CHARMIAN PLANT

www.specialtygranules.com

Certified Mail #7015 0640 0005 0927 2697

July 7th, 2017

County of Adams Commissioners
117 Baltimore Street, Room 201
Gettysburg, PA 17325



Re: Notification: Renewal of Air Quality Permit - #01-5016

To Whom it Concerns,

Please be aware, Specialty Granules, LLC – Charmian Plant is currently renewing our Air Quality Permit #01-5016. All sources and modifications are currently permitted and operational. As previously stated this is a renewal of our existing permit.

There is a 30-day comment period which begins upon receipt of the notice by the municipality and county.

Should you require additional information please feel free to contact me.

Respectfully,

Matthew R. Watson
Direct: 717-794-3303
Cell: 717-729-5028
Environmental Coordinator
SGI - Charmian Plant



Certified Mail # 7015 0640 0005 0927 2680

July 7th, 2017

Hamiltonban Township
23 Carrolls Tract Road
PO Box 526
Fairfield, PA 17320



Re: Notification: Renewal of Air Quality Permit - #01-5016

To Whom it Concerns,

Please be aware, Specialty Granules, LLC – Charmian Plant is currently renewing our Air Quality Permit #01-5016. All sources and modifications are currently permitted and operational. As previously stated this is a renewal of our existing permit.

There is a 30-day comment period which begins upon receipt of the notice by the municipality and county.

Should you require additional information please feel free to contact me.

Respectfully,

Matthew R. Watson
Direct: 717-794-3303
Cell: 717-729-5028
Environmental Coordinator
SGI - Charmian Plant

7015 0640 0005 0927 2680

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Certified Mail Fee	\$ 3.45
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$ 8.35
Sent To Hamiltonban Township 23 Carrolls Tract Road, PO Box 526 Fairfield, PA 17320	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hamiltonban Township
23 Carrolls Tract Road
PO Box 526
Fairfield, PA 17320



9590 9403 0284 5155 0773 62

2. Article Number (Transfer from service label)

7015 0640 0005 0927 2680

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature *[Signature]* ☒ Agent ☐ Addressee
- B. Received by (Printed Name) *Nick Carrolson* C. Date of Delivery *7/10/17*
- D. Is delivery address different from item 1? ☐ Yes ☒ No
If YES, enter delivery address below:

3. Service Type
- ☐ Adult Signature
 - ☐ Adult Signature Restricted Delivery
 - ☒ Certified Mail®
 - ☐ Certified Mail Restricted Delivery
 - ☐ Collect on Delivery
 - ☐ Collect on Delivery Restricted Delivery
 - ☐ Insured Mail
 - ☐ Insured Mail Restricted Delivery (over \$500)
- ☐ Priority Mail Express®
 - ☐ Registered Mail™
 - ☐ Registered Mail Restricted Delivery
 - ☒ Return Receipt for Merchandise
 - ☐ Signature Confirmation™
 - ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

County of Adams Commissioners
117 Baltimore Street, Room 201
Gettysburg, PA 17325



9590 9403 0284 5155 0773 55

2. Article Number (Transfer from service label)

7015 0640 0005 0927 2697

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature *[Signature]* ☒ Agent ☐ Addressee
- B. Received by (Printed Name) *USA Woodward* C. Date of Delivery *7/10/17*
- D. Is delivery address different from item 1? ☐ Yes ☒ No
If YES, enter delivery address below:

3. Service Type
- ☐ Adult Signature
 - ☐ Adult Signature Restricted Delivery
 - ☒ Certified Mail®
 - ☐ Certified Mail Restricted Delivery
 - ☐ Collect on Delivery
 - ☐ Collect on Delivery Restricted Delivery
 - ☐ Insured Mail
 - ☐ Insured Mail Restricted Delivery (over \$500)
- ☐ Priority Mail Express®
 - ☐ Registered Mail™
 - ☐ Registered Mail Restricted Delivery
 - ☒ Return Receipt for Merchandise
 - ☐ Signature Confirmation™
 - ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

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OFFICIAL USE

Certified Mail Fee	\$ 3.45
Extra Services & Fees (check box, add fee as appropriate)	\$ 4.90
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 4.90
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$ 8.35
Sent To County of Adams Commissioners 117 Baltimore Street, Room 201 Gettysburg, PA 17325	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



Engine Emissions Data

For Emissions / Certification feedback and questions, please submit a ticket via our ERC [Request Portal](#)

This emission data is Caterpillar's best estimate for this rating. If actual emissions are required then an emission test needs to be run on your engine.

Serial Number (Machine)	
Serial Number (Engine)	PW300182
Sales Model	C13
Regulatory Build Date	12/22/2016
Interlock Code Progression	No Interlock Code Progression

As Shipped Data

Engine Arrangement Number	5066872
Certification Arrangement	
Test Spec Number	0K9333
Regulatory Status	EPA Emergency Stationary @ Constant Speed
Labeled Model Year	2016
EPA Family Code	GCPXL12.5NYS
Flash File	4951595
Flash File Progression	4951595
CORR FL Power at RPM	620 HP (462.0 KW)1800 RPM
Advertised Power	601 HP 1,800RPM
Total Displacement	12.5

This is not an official emission certificate. This is for emission data information only.

[Need emission replacement label? Click here!](#)

Caterpillar Confidential: **Green**

Content Owner: Commercial Processes Division

Web Master(s): [PSG Web Based Systems Support](#)

Current Date: 7/7/2017 8:22:15 AM

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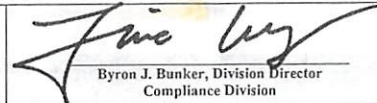


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2016 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Caterpillar Inc.
(U.S. Manufacturer or Importer)
Certificate Number: GCPXL12.5NYS-008

Effective Date:
07/10/2015
Expiration Date:
12/31/2016


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/10/2015
Revision Date:
N/A

Model Year: 2016
Manufacturer Type: Original Engine Manufacturer
Engine Family: GCPXL12.5NYS

Mobile/Stationary Indicator: Stationary
Emissions Power Category: 225<=kW<450
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Electronic Control, Smoke Puff Limiter, Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



Project Sizing Report

U.S.

Modified Date	18-May-2016	Electricity Supply	60 Hz 480/277 V
Customer Name		Connection	STAR
Project Name/Ref #	Specialty Granules	Max. Ambient Temperature	77.0 F 30% Humidity
Prepared By	Leon Davis	Altitude	500.0 Ft. A.S.L

Load Analysis Summary

Max Transient Load Step	397.5 SkVA	135.2 SkW	
Peak Transient Load	563.0 SkVA	315.5 SkW	
Final Running Load	270.3 kVA	240.5 kW	0.89 PF
Max Running Non Linear Load			
Maximum Running Load	270.3 kVA	240.5 kW	

Generator Set

Genset Model	(1) of C13	Nameplate Rating	350.0 kW / 437.5 kVA
Voltage Regulator and Slope	IVR, 2:1 slope		0.8 PF
Feature Code	C13DE50	Site Output	350.0 kW / 437.5 kVA
Fuel	Diesel	Rating Type	Standby
Dry Weight	0.0 lbs		
Length / Width / Height	286.0in / 80.9in / 126.2in		
		UL Listed	No

Alternator Motor Starting Capability *		Block Load (only) Transient Response *			
Instantaneous Voltage Dip ***	skVA Capability	Load Change %	FDip %	VDip %	Recovery Time (sec)
10%	228	0 - 25	1.8	4.1	< 3
20%	513	0 - 50	3.7	7.9	< 3
30%	880	0 - 75	7.0	13.3	< 3
35%	1,106	0 - 100	12.0	23.1	< 3

Engine Technical Data at 100% Rated Load

Make/Model	C13	Emissions/Certifications	EPA ESE
Aspiration	TA	Governor	ELEC
Cylinder Configuration	INLINE - 6	Aftercooler Type	ATAAC
Displacement	763 Cubic Inch / 13 Liter	Rejection To Jacket Water	8,132 BTU/min
Speed	1800 RPM	Rejection To Aftercooler	3,108 BTU/min
Fuel Rate	24.9 gph	Rejection To Oil Cooler	2,848 BTU/min
Exhaust Sound Level	0 dBA at 23 ft/7 m	Rejection To Atmosphere	2,694 BTU/min
Mechanical Sound Level	0 dBA at 23 ft/7 m	Rejection To Exhaust	20,484 BTU/min
Max Combustion Inlet Air Temp	120.2 F	Exhaust Recoverable	12,296 BTU/min
Combustion Airflow	874.5 cfm	Exhaust Stack Temperature	1,060 F
Cooling System Ambient Capability	32.0 F	Exhaust Flow Rate	2,591.6 cfm
Cooling System Airflow **	0 cfm		
Engine Performance Number	EM1692		

Alternator Technical Data

Alternator Arrangement Number				4183871	Insulation		H
Alternator Type / Frame Size				LC / LC6114B	Temperature Rise		130 C
Alternator Winding Pitch				0.6667	Rejection To Atmosphere		1,381.9 BTU/min
Number Of Poles				4	Peak Amps / Rated Amps		**** / 526.2
Excitation / Winding Type				SE / RANDOM	Short Circuit Ratio		0.3800
<u>Reactances</u>		<u>per unit</u>	<u>ohms</u>	<u>Generator Time Constants</u>		<u>sec</u>	
Subtransient - Direct Axis		X"d	0.1348	0.0710	Open Circuit Transient - Direct Axis		T'd0 1.7380
Subtransient - Quadrature Axis		X"q	0.1829	0.0963	Short Circuit Transient - Quadrature Axis		T'd 0.1000
Transient - Saturated		X'd	0.1927	0.1015	Open Circuit Subtransient - Direct Axis		T"d0 0.0130
Synchronous - Direct Axis		Xd	3.3496	1.7640	Short Circuit Subtransient - Direct Axis		T"d 0.0100
Synchronous - Quadrature Axis		Xq	2.0098	1.0584	Open Circuit Subtransient - Quadrature Axis		T"q0 0.1100
Negative Sequence		X2	0.1584	0.0834	Short Circuit Subtransient - Quadrature Axis		T"q 0.0100
Zero Sequence		X0	0.0095	0.0050	Armature Short Circuit		TA 0.0150

Notes:

* Block Load (only) Transient Response values are at factory conditions. Genset block load capabilities at site conditions may vary from factory transient response test results due to a variance in site altitude or ambient conditions.

** Based on 1/2 inch water (0.12 kPa) external restriction and 1000 ft (300m) altitude.

*** Based on instantaneous voltage dip as defined per NEMA MG-1.

**** See your Caterpillar dealer and/or Spec Sheet for technical information.

***** Package Power Tolerance: +/- 5%

Maximum voltage distortion due to non-linear load calculated to be within specified limits.

Overall dimensions and weight not to be used for installation. Contact your Caterpillar dealer for specific dimension drawings.

Caterpillar makes no express warranties and disclaims all implied warranties including merchantability and fitness for a particular purpose regarding program. Caterpillar shall have no liability in law or equity for damages consequential or otherwise arising from use of program and related material or any part thereof. The analysis provided from SpecSizer is only for the expected results at the generator terminals. Analysis of transient conditions of any device downstream is the responsibility of the system designer.

PERFORMANCE DATA[EM1694]

Performance Number: EM1694

Change Level: 01

SALES MODEL: C13
 BRAND: CAT
 ENGINE POWER (BHP): 601
 GEN POWER WITH FAN (EKW): 400.0
 COMPRESSION RATIO: 16.3
 RATING LEVEL: STANDBY
 PUMP QUANTITY: 1
 FUEL TYPE: DIESEL
 MANIFOLD TYPE: DRY
 GOVERNOR TYPE: ELEC
 ELECTRONICS TYPE: ADEM4
 CAMSHAFT TYPE: STANDARD
 IGNITION TYPE: CI
 INJECTOR TYPE: EUI
 REF EXH STACK DIAMETER (IN): 5
 MAX OPERATING ALTITUDE (FT): 1,640

COMBUSTION: DI
 ENGINE SPEED (RPM): 1,800
 HERTZ: 60
 FAN POWER (HP): 20.1
 ADDITIONAL PARASITICS (HP): 10.4
 ASPIRATION: TA
 AFTERCOOLER TYPE: ATAAC
 AFTERCOOLER CIRCUIT TYPE: JW+OC, ATAAC
 INLET MANIFOLD AIR TEMP (F): 120
 JACKET WATER TEMP (F): 192.2
 TURBO CONFIGURATION: SINGLE
 TURBO QUANTITY: 1
 TURBOCHARGER MODEL: GTA5002BS 1.60A/R
 CERTIFICATION YEAR: 2015
 PISTON SPD @ RATED ENG SPD (FT/MIN): 1,854.3

INDUSTRY	SUBINDUSTRY	APPLICATION
ELECTRIC POWER	STANDARD	PACKAGED GENSET

General Performance Data

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	BRAKE MEAN EFF PRES (BMEP)	BRAKE SPEC FUEL CONSUMPTN (BSFC)	VOL FUEL CONSUMPTN (VFC)	INLET MFLD PRES	INLET MFLD TEMP	EXH MFLD TEMP	EXH MFLD PRES	ENGINE OUTLET TEMP
EKW	%	BHP	PSI	LB/BHP-HR	GAL/HR	IN-HG	DEG F	DEG F	IN-HG	DEG F
400.0	100	601	346	0.326	27.9	55.6	116.2	1,279.4	37.2	1,053.4
360.0	90	542	313	0.327	25.3	50.2	112.8	1,238.8	32.9	1,025.2
320.0	80	485	280	0.355	24.6	53.8	115.4	1,243.2	36.3	1,014.1
300.0	75	457	263	0.367	24.0	54.1	115.3	1,242.2	36.6	1,006.9
280.0	70	428	247	0.373	22.8	51.9	113.2	1,230.5	34.7	994.8
240.0	60	372	215	0.381	20.3	45.8	108.5	1,193.9	30.2	965.0
200.0	50	316	182	0.387	17.5	37.8	103.0	1,140.2	25.0	927.6
160.0	40	261	151	0.389	14.5	27.4	96.5	1,080.7	18.9	889.3
120.0	30	206	119	0.390	11.5	17.1	90.3	998.9	12.9	840.0
100.0	25	178	102	0.392	9.9	12.4	87.5	948.6	10.3	810.6
80.0	20	149	86	0.396	8.4	8.5	85.3	886.6	8.2	770.9
40.0	10	90.8	52	0.427	5.5	3.6	82.6	689.5	5.6	609.6

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	COMPRESSOR OUTLET PRES	COMPRESSOR OUTLET TEMP	WET INLET AIR VOL FLOW RATE	ENGINE OUTLET WET EXH GAS VOL FLOW RATE	WET INLET AIR MASS FLOW RATE	WET EXH GAS MASS FLOW RATE	WET EXH VOL FLOW RATE (32 DEG F AND 29.98 IN HG)	DRY EXH VOL FLOW RATE (32 DEG F AND 29.98 IN HG)
EKW	%	BHP	IN-HG	DEG F	CFM	CFM	LB/HR	LB/HR	FT3/MIN	FT3/MIN
400.0	100	601	60	353.2	966.6	2,894.9	4,238.6	4,433.5	940.7	845.9
360.0	90	542	54	330.4	917.7	2,659.2	4,006.8	4,184.1	880.5	794.2
320.0	80	485	58	345.0	971.4	2,790.9	4,253.0	4,425.1	931.1	847.4
300.0	75	457	59	347.3	982.7	2,801.1	4,301.0	4,468.6	939.1	857.4
280.0	70	428	56	339.1	963.3	2,706.4	4,204.3	4,363.9	914.9	836.3
240.0	60	372	50	314.8	902.4	2,465.5	3,918.4	4,060.3	850.9	779.7
200.0	50	316	41	280.3	812.5	2,156.6	3,510.3	3,632.6	764.3	702.0
160.0	40	261	30	234.0	687.0	1,781.4	2,955.8	3,057.3	649.3	597.7
120.0	30	206	19	186.1	559.5	1,398.1	2,396.3	2,476.6	528.9	488.0
100.0	25	178	14	163.5	501.9	1,216.0	2,144.3	2,213.9	470.7	434.8
80.0	20	149	10	143.6	454.1	1,050.9	1,934.8	1,994.0	419.9	388.7
40.0	10	90.8	5	114.6	397.9	789.9	1,686.8	1,725.7	363.2	341.4

Heat Rejection Data

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	REJECTION TO JACKET WATER	REJECTION TO ATMOSPHERE	REJECTION TO EXH	EXHAUST RECOVERY TO 350F	FROM OIL COOLER	FROM AFTERCOOLER	WORK ENERGY	LOW HEAT VALUE ENERGY	HIGH HEAT VALUE ENERGY
EKW	%	BHP	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN

PERFORMANCE DATA[EM1694]

July 7, 2017

400.0	100	601	8,857	2,945	22,607	13,490	3,195	4,023	25,466	59,983	63,897
360.0	90	542	8,159	2,651	20,619	12,176	2,996	3,490	22,996	54,368	57,916
320.0	80	485	7,903	2,618	21,224	12,608	2,811	3,912	20,567	52,780	56,224
300.0	75	457	7,710	2,546	21,145	12,570	2,738	3,995	19,365	51,406	54,761
280.0	70	428	7,382	2,443	20,314	12,028	2,605	3,802	18,163	48,913	52,105
240.0	60	372	6,711	2,418	18,200	10,634	2,317	3,238	15,782	43,510	46,349
200.0	50	316	6,033	2,483	15,558	8,900	1,999	2,492	13,418	37,535	39,984
160.0	40	261	5,465	2,508	12,515	6,985	1,660	1,628	11,079	31,161	33,194
120.0	30	206	4,843	2,208	9,534	5,102	1,312	920	8,725	24,624	26,230
100.0	25	178	4,472	1,897	8,187	4,276	1,137	653	7,535	21,350	22,743
80.0	20	149	4,040	1,542	6,945	3,504	965	452	6,327	18,124	19,307
40.0	10	90.8	2,963	1,112	4,536	1,834	634	216	3,852	11,904	12,681

Emissions Data

RATED SPEED POTENTIAL SITE VARIATION: 1800 RPM

GENSET POWER WITH FAN	EKW	400.0	300.0	200.0	100.0	40.0
PERCENT LOAD	%	100	75	50	25	10
ENGINE POWER	BHP	601	457	316	178	90.8
TOTAL NOX (AS NO2)	G/HR	2,951	1,068	588	577	371
TOTAL CO	G/HR	1,366	852	1,107	1,159	773
TOTAL HC	G/HR	10	34	57	58	82
PART MATTER	G/HR	60.9	65.7	37.7	32.1	44.3
TOTAL NOX (AS NO2)	(CORR 5% O2) MG/NM3	2,499.0	1,040.3	779.4	1,396.4	1,483.0
TOTAL CO	(CORR 5% O2) MG/NM3	1,152.8	842.7	1,484.4	2,885.1	3,110.1
TOTAL HC	(CORR 5% O2) MG/NM3	7.6	28.5	66.0	127.6	338.9
PART MATTER	(CORR 5% O2) MG/NM3	41.5	52.9	42.2	66.9	189.6
TOTAL NOX (AS NO2)	(CORR 5% O2) PPM	1,217	507	380	680	722
TOTAL CO	(CORR 5% O2) PPM	922	674	1,188	2,308	2,488
TOTAL HC	(CORR 5% O2) PPM	14	53	123	238	633
TOTAL NOX (AS NO2)	G/HP-HR	5.00	2.36	1.87	3.26	4.10
TOTAL CO	G/HP-HR	2.32	1.88	3.52	6.55	8.55
TOTAL HC	G/HP-HR	0.02	0.08	0.18	0.33	0.90
PART MATTER	G/HP-HR	0.10	0.15	0.12	0.18	0.49
TOTAL NOX (AS NO2)	LB/HR	6.51	2.36	1.30	1.27	0.82
TOTAL CO	LB/HR	3.01	1.88	2.44	2.55	1.71
TOTAL HC	LB/HR	0.02	0.07	0.13	0.13	0.18
PART MATTER	LB/HR	0.13	0.14	0.08	0.07	0.10

RATED SPEED NOMINAL DATA: 1800 RPM

GENSET POWER WITH FAN	EKW	400.0	300.0	200.0	100.0	40.0
PERCENT LOAD	%	100	75	50	25	10
ENGINE POWER	BHP	601	457	316	178	90.8
TOTAL NOX (AS NO2)	G/HR	2,732	989	544	534	343
TOTAL CO	G/HR	730	456	592	620	414
TOTAL HC	G/HR	6	18	30	30	43
TOTAL CO2	KG/HR	271	236	172	98	55
PART MATTER	G/HR	31.2	33.7	19.4	16.5	22.7
TOTAL NOX (AS NO2)	(CORR 5% O2) MG/NM3	2,313.9	963.2	721.7	1,293.0	1,373.1
TOTAL CO	(CORR 5% O2) MG/NM3	616.5	450.6	793.8	1,542.8	1,663.2
TOTAL HC	(CORR 5% O2) MG/NM3	4.0	15.1	34.9	67.5	179.3
PART MATTER	(CORR 5% O2) MG/NM3	21.3	27.1	21.7	34.3	97.2
TOTAL NOX (AS NO2)	(CORR 5% O2) PPM	1,127	469	352	630	669
TOTAL CO	(CORR 5% O2) PPM	493	361	635	1,234	1,331
TOTAL HC	(CORR 5% O2) PPM	8	28	65	126	335
TOTAL NOX (AS NO2)	G/HP-HR	4.63	2.19	1.73	3.02	3.80
TOTAL CO	G/HP-HR	1.24	1.01	1.88	3.50	4.57
TOTAL HC	G/HP-HR	0.01	0.04	0.10	0.17	0.48
PART MATTER	G/HP-HR	0.05	0.07	0.06	0.09	0.25
TOTAL NOX (AS NO2)	LB/HR	6.02	2.18	1.20	1.18	0.76
TOTAL CO	LB/HR	1.61	1.00	1.31	1.37	0.91
TOTAL HC	LB/HR	0.01	0.04	0.07	0.07	0.10
TOTAL CO2	LB/HR	598	520	378	215	121
PART MATTER	LB/HR	0.07	0.07	0.04	0.04	0.05
OXYGEN IN EXH	%	7.5	9.6	10.8	11.8	14.4
DRY SMOKE OPACITY	%	1.7	1.1	1.0	2.9	2.0
BOSCH SMOKE NUMBER		1.12	0.75	0.70	1.72	1.27

Regulatory Information

EPA EMERGENCY STATIONARY				2011 - ---
Locality	Agency	Regulation	Tier/Stage	Max Limits - G/BKW - HR
U.S. (INCL CALIF)	EPA	STATIONARY	EMERGENCY STATIONARY	CO: 3.5 NOx + HC: 4.0 PM: 0.20

Altitude Derate Data

ALTITUDE CORRECTED POWER CAPABILITY (BHP)

AMBIENT OPERATING TEMP (F)	30	40	50	60	70	80	90	100	110	120	130	140	NORMAL
ALTITUDE (FT)													
0	601	601	601	601	601	601	601	601	601	601	601	601	601
1,000	601	601	601	601	601	601	601	601	601	601	601	598	601
2,000	601	601	601	601	601	601	601	601	601	597	578	574	601
3,000	601	601	601	601	601	601	601	601	595	581	564	560	601
4,000	601	601	601	601	601	601	600	590	578	565	551	547	601
5,000	601	601	601	601	601	601	592	578	562	548	537	533	601
6,000	601	601	601	601	601	598	583	566	545	532	521	517	601
7,000	590	590	590	590	590	585	568	548	526	511	499	495	600
8,000	582	582	582	582	582	576	556	533	509	492	480	476	596
9,000	578	578	578	578	578	571	548	522	492	476	464	460	593
10,000	574	574	574	574	574	566	541	510	477	459	449	445	589
11,000	566	566	566	566	566	558	530	496	459	441	430	427	586
12,000	561	561	561	561	561	552	521	484	442	423	414	410	582
13,000	555	555	555	555	555	545	511	471	425	406	397	393	578
14,000	549	549	549	549	549	538	502	458	409	389	380	376	576
15,000	544	544	544	544	544	533	494	448	395	375	366	362	574

Cross Reference

Test Spec	Setting	Engine Arrangement	Engineering Model	Engineering Model Version	Start Effective Serial Number	End Effective Serial Number
0K9333	PP7710	4343726	PG045	LS	PW300001	

Performance Parameter Reference

Parameters Reference:DM9600-08

PERFORMANCE DEFINITIONS

PERFORMANCE DEFINITIONS DM9600

APPLICATION:

Engine performance tolerance values below are representative of a typical production engine tested in a calibrated dynamometer test cell at SAE J1995 standard reference conditions. Caterpillar maintains ISO9001:2000 certified quality management systems for engine test facilities to assure accurate calibration of test equipment. Engine test data is corrected in accordance with SAE J1995. Additional reference material SAE J1228, J1349, ISO 8665, 3046-1:2002E, 3046-3:1989, 1585, 2534, 2288, and 9249 may apply in part or are similar to SAE J1995. Special engine rating request (SERR) test data shall be noted.

PERFORMANCE PARAMETER TOLERANCE FACTORS:

Power +/- 3%
Torque +/- 3%
Exhaust stack temperature +/- 8%
Inlet airflow +/- 5%
Intake manifold pressure-gage +/- 10%
Exhaust flow +/- 6%
Specific fuel consumption +/- 3%
Fuel rate +/- 5%
Specific DEF consumption +/- 3%

PERFORMANCE DATA[EM1694]

DEF rate +/- 5%

Heat rejection +/- 5%

Heat rejection exhaust only +/- 10%

Heat rejection CEM only +/- 10%

Heat Rejection values based on using treated water.

Torque is included for truck and industrial applications, do not use for Gen Set or steady state applications.

On C7 - C18 engines, at speeds of 1100 RPM and under these values are provided for reference only, and may not meet the tolerance listed.

These values do not apply to C280/3600. For these models, see the tolerances listed below.

C280/3600 HEAT REJECTION TOLERANCE FACTORS:

Heat rejection +/- 10%

Heat rejection to Atmosphere +/- 50%

Heat rejection to Lube Oil +/- 20%

Heat rejection to Aftercooler +/- 5%

TEST CELL TRANSDUCER TOLERANCE FACTORS:

Torque +/- 0.5%

Speed +/- 0.2%

Fuel flow +/- 1.0%

Temperature +/- 2.0 C degrees

Intake manifold pressure +/- 0.1 kPa

OBSERVED ENGINE PERFORMANCE IS CORRECTED TO SAE J1995 REFERENCE AIR AND FUEL CONDITIONS.

REFERENCE ATMOSPHERIC INLET AIR

FOR 3500 ENGINES AND SMALLER

SAE J1228 AUG2002 for marine engines, and J1995 JAN2014 for other engines, reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity at the stated aftercooler water temp, or inlet manifold temp.

FOR 3600 ENGINES

Engine rating obtained and presented in accordance with ISO 3046/1 and SAE J1995 JAN2014 reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity and 150M altitude at the stated aftercooler water temperature.

MEASUREMENT LOCATION FOR INLET AIR TEMPERATURE

Location for air temperature measurement air cleaner inlet at stabilized operating conditions.

REFERENCE EXHAUST STACK DIAMETER

The Reference Exhaust Stack Diameter published with this dataset is only used for the calculation of Smoke Opacity values displayed in this dataset. This value does not necessarily represent the actual stack diameter of the engine due to the variety of exhaust stack adapter options available. Consult the price list, engine order or general dimension drawings for the actual stack diameter size ordered or options available.

REFERENCE FUEL

DIESEL

Reference fuel is #2 distillate diesel with a 35API gravity;

A lower heating value is 42,760 KJ/KG (18,390 BTU/LB) when used at 29 (84.2), where the density is 838.9 G/Liter (7.001 Lbs/Gal).

GAS

Reference natural gas fuel has a lower heating value of 33.74 KJ/L (905 BTU/CU Ft). Low BTU ratings are based on 18.64 KJ/L (500 BTU/CU FT) lower heating value gas. Propane ratings are based on 87.56 KJ/L (2350 BTU/CU Ft) lower heating value gas.

ENGINE POWER (NET) IS THE CORRECTED FLYWHEEL POWER (GROSS) LESS EXTERNAL AUXILIARY LOAD

Engine corrected gross output includes the power required to drive standard equipment; lube oil, scavenge lube oil, fuel transfer, common rail fuel, separate circuit aftercooler and jacket water pumps. Engine net power available for the external (flywheel) load is calculated by subtracting the sum of auxiliary load from the corrected gross flywheel out put power. Typical auxiliary loads are radiator cooling fans, hydraulic pumps, air compressors and battery charging alternators. For Tier 4 ratings additional Parasitic losses would also include Intake, and Exhaust Restrictions.

ALTITUDE CAPABILITY

Altitude capability is the maximum altitude above sea level at standard temperature and standard pressure at which the engine could develop full rated output power on the current performance data set.

Standard temperature values versus altitude could be seen on TM2001.

When viewing the altitude capability chart the ambient temperature is the inlet air temp at the compressor inlet.

Engines with ADEM MEUI and HEUI fuel systems operating at conditions above the defined altitude capability derate for atmospheric pressure and temperature conditions outside the values defined, see TM2001.

Mechanical governor controlled unit injector engines require a setting change for operation at conditions above the altitude defined on the engine performance sheet. See your Caterpillar technical representative for non standard ratings.

PERFORMANCE DATA[EM1694]

REGULATIONS AND PRODUCT COMPLIANCE

TMI Emissions information is presented at 'nominal' and 'Potential Site Variation' values for standard ratings. No tolerances are applied to the emissions data. These values are subject to change at any time. The controlling federal and local emission requirements need to be verified by your Caterpillar technical representative.

Customer's may have special emission site requirements that need to be verified by the Caterpillar Product Group engineer.

EMISSIONS DEFINITIONS:

Emissions : DM1176

HEAT REJECTION DEFINITIONS:

Diesel Circuit Type and HHV Balance : DM9500

HIGH DISPLACEMENT (HD) DEFINITIONS:

3500: EM1500

RATING DEFINITIONS:

Agriculture : TM6008

Fire Pump : TM6009

Generator Set : TM6035

Generator (Gas) : TM6041

Industrial Diesel : TM6010

Industrial (Gas) : TM6040

Irrigation : TM5749

Locomotive : TM6037

Marine Auxiliary : TM6036

Marine Prop (Except 3600) : TM5747

Marine Prop (3600 only) : TM5748

MSHA : TM6042

Oil Field (Petroleum) : TM6011

Off-Highway Truck : TM6039

On-Highway Truck : TM6038

SOUND DEFINITIONS:

Sound Power : DM8702

Sound Pressure : TM7080

Date Released : 7/7/15

AUTHORIZATION TRACKING FORM

Date App. Received: 8-2-17

Co. Name: Specialty Granules

Amount of Fee Recv'd: 375-

Table 1 Database Input /

Mailing Address Database Input NA

Plan Approval	
Plan Approval NSPS	
Plan Approval MACT	
Plan Approval NNSR/PSD	
Plan Approval Extension	
GP	
NM	
SM	
SM/NM Renewal	6ee OK
SM/NM Amendment	
T5	
T5 Mod/Amend	
T5 Renewal	
ERC	
Other	

Fee Notes:

App Pre-Processing Info:

Permit No.	01-05016	✓
Client No.	162047	✓
Site No.	251350	✓
PF No.	259373	✓
Auth. Type	MSO	✓
Appl. Type	Ren	✓
Permit Chief	Viren	✓
Date Given to		
Permit Chief	-	

Permit Chief:

Assigned Reviewer	Roy
-------------------	-----

Clerical Staff:

Account # 555497

Master Auth. No. <small>(only for ren, amend, mod, ext)</small>	604659
APS No.	560120
Auth. No.	1192717
Date Input to eFACTS	8-3-17
Fee Amt. Input to eFACTS	375-
Clerical Staff Initials	DW

Project Tracking Notes:

Expires: 3-31-18 ✓ SNR ORIGINAL 5/30/18 REV 4-15-14

✓ admin complete as received - WKA ✓
 LINK SOURCE + CONTROL 5/30/18 ✓
 016 NNSR 02/13, CI RICH COI HP. CPT ; COPY PERMIT
 516 AUTH 1015530
 REVISION 1/21/14 4.15.14

Permit Chief:

Date Forwarded to Reviewer	
Date Due Draft	2/20/18
Date Due Final Disposition	4/20/18

THE BACK OF THIS DOCUMENT HAS A WATERMARK PRINTED IN WHITE INK IN MULTIPLE POSITIONS • HOLD AT AN ANGLE TO VIEW • VOID IF NOT PRESENT



SPECIALTY GRANULES LLC
13424 Pennsylvania Avenue, Suite 303
Hagerstown, MD 21742

4411051

BANK OF AMERICA
Atlanta, Dekalb County, GA
Atlanta, GA
64-1278 / 611 GA

00054547

Date Jul/11/2017

Pay

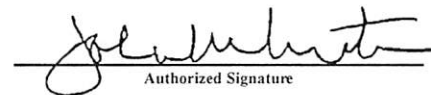
THREE HUNDRED SEVENTY-FIVE AND XX / 100 DOLLAR

Pay Amount
\$ 375.00***

To The
Order Of

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY

909 ELMERTON AVE
HARRISBURG, PA 17110


Authorized Signature

AQ

INSP ID: 2477021
PF ID: 259373
INSP TYPE: FCE

1
SGI

4/27/2016
DISTRICT: YORK
FILE NAME: SGI16B.doc

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHCENTRAL REGION
AIR QUALITY PROGRAM
INSPECTION REPORT**

COMPANY NAME: Specialty Granules, Inc.

DATE INSPECTED: April 21, 2016

PLANT: Charmian Plant

INSPECTED BY: Michael A. Anonia, AQS

LOCATION: Hamiltonban Township
Adams County

REVIEWED BY: David Bubbenmoyer, AQDS

OFFICIAL(S)

CONTACTED: Doug Crumbacker
Mike Cahill
✓Matt Watson
✓Asher Sweet
Tom Middlekauff
David Dinkins

TITLE: Plant Engineer
Plant Manager
Environmental Coordinator
Health & Safety Mgr.
Production Mgr.
Corporate Environmental

PHONE: 717-794-2184

AIMS ID 22-3807370-1

SM Operating Permit No. 01-05016

Permit Issue Date: 20 MAR 2013

Amended Permit Date: 15 APR 2014

Permit exp. Date: 31 MAR 2018

NONCOMPLYING SOURCES

None

STANDARDS VIOLATED

None

Enforcement since last FCE: CACP dated October 2, 2015 for 420 Undersize Material Section E Grp. 2, Condition #002 Table 3 FE violation.

AIMS Emissions for 2014 (Tons): CO: 20.05 NOx: 23.87 PM₁₀: 53.92 SO_x: 0.04 VOC: 1.31 CO₂: 27.9M

AIMS Emissions for 2015 (Tons): CO: 20.33 NOx: 24.20 PM₁₀: 58.41 SO_x: 0.04 VOC: 1.33 CO₂: 28.2M

INSPECTION NOTE: This is the second part of the inspection conducted on October 1, 2015. Only sources in operation for this inspection are listed on this report. See October 21, 2015, inspection report for all other sources.

INSPECTION RESULTS:

Intermediate Plant- OPERATING

Intermediate Crushing, Drying and Screening Plant

Main Stockpile 977 conveyor- Operating (210 to 215 TPH rated/nominal)

Transfer Point- Dust enclosure vented to Torit Donaldson Baghouse, Operating.

978 Shorten Conveyor to Elevator- Dust enclosure vented to Torit Donaldson Baghouse- Operating- Yes

Triple Deck Screen- operating- Yes Dust enclosure vented to Torit Donaldson Baghouse, 2 pickups. Screened material meeting spec goes straight to the finish conveyor. The remainder is sent to the cone crusher.

Cone Crusher- Dust enclosure vented to Torit Donaldson Baghouse, Not Operating.

979 Finish Conveyor- Operating. Dust enclosure vented to Torit Donaldson Baghouse.

Torit Donaldson (21,000 cfm) Operating
Pressure drop = 4.0 in. wg.
Pulse Pressure = 9 psi
Pulse Interval = 3 seconds
VE= %, fugitive dust = 0%

CD7 Conveyor Enclosure, Operating, Control- Donaldson BH

Donaldson Baghouse pressure drop (in. wg.) 4.8
Not Operating 455C conveyor Pulse Interval = 5 seconds
Operating- elevator Pulse Pressure = 9 psi
Filling 2 silos VE = 0%

987 conveyor transfer pt., Operating.

400 Rotary Dryer plant 350 ton/hr rated Natural Gas only. Operating.
Line psi = 30 Burner psi = 2.5 Discharged pickup cover, no FE, Vents to Astec Baghouse.

Astec Baghouse. Operating. Pressure drop = 1.9 in. wg.
Visible Emission = 0%

#136 Screen enclosure controlled by Carter-Day #390 Operating."on demand".

Carter-Day "F" #390 (sky blue) pressure drop (in. wg.) 2.0 Operating
Pulse Pressure = 9 psi
Pulse Interval = 5 seconds
VE = 0%

No. 3 Mill - VSI Crusher Operating, vent to the 4 BGHs below.

DONALDSON TORIT 484RFWAW12X, 30000CFM baghouse (H01A)
pressure drop (in. wg.) 3.0 VE = 0%, fugitive dust = 0%
pulse Interval = 3 seconds @ 9 psi

Donaldson Torit baghouse (C106) Operating-
pressure drop (in. wg.) 4.0 VE = 0%, fugitive dust = 0%
pulse Interval =(on demand) seconds

ID: 2477021
ID: 259373
NSP TYPE: FCE

3
SGI

4/27/2016
DISTRICT: YORK
FILE NAME: SGI16B.doc

Operating.

Double Pulse King M100(D02) pressure drop (in. wg.) 3.4
Pulse on demand controller w/ magnahelic gauge.

Hi. Set pt. 4.0
Low Set pt. 2.0

Pulse Interval = 6 seconds
Pulse Pressure = 9 psi
FE = 0%
VE = 0% opacity,

Operating.

Single compartment Pulse King M200(D04) #365 pressure drop (in. wg.) 4.0
Pulse Interval = 4 seconds
Pulse Pressure = 9 psi
VE at stack = 0%

Rolling Mills

(A) Mill Operating.

Thruput? -- TPH (30), Elevators & Screens for 3 roll crushers. 3 of 3 rollers
Johnson-March "A" Baghouse (D10)
(pressure drop (in. wg.) 1.0)
Pulse Interval = 15 seconds @ 9 psi Bag pulse indicators are located at
VE, 0%, Fugitive, 0% Controller station.

(B) Mill Not Operating.

Thruput? -- TPH (30), Elevators & Screens for 3 roll crushers. 3 of 3 rollers
Johnson-March "B" Baghouse
(pressure drop (in. wg.) 3.0) Pulse Interval = 10 seconds @ 10 psi
VE, 0%, Fugitive 0%

Operating.

A & B Mills combined Six Roll Crushers: 6 of 6 Donaldson Baghouse (D12) (roll
crushers) pressure drop (in. wg.) 1.0 / 6.0 psi
VE 0%, fugitive 0%

Operating

A & B Mills Waste Fines Conveying, Handling and Silo System

Donaldson Baghouse(1958 Transfer Pt.) pressure drop (in. wg.) 2.0 / VE = 0%,
19 Conveyor Tail/start point. Pickup at the start pt. vents to the B-side of the
Johnson & March baghouse.

Waste fines from the A & B mills and JM Baghouse are deposited on conveyors 976 &
19. Waste fines from the Donaldson Baghouse are deposited at conveyor 19's 1/3
point. Two pickups located at each discharge. The new Donaldson BH, that
replaced the 1958 Carter-Day, controls both discharge transfer points, waste
fines to silos or waste fines to the Undersize Material Processing Plant via lift
elevator.

Undersize Material Processing Plant Operating

Feed Elevator, Operating
Classifier, Operating

C420A CONTROL, 65,000SCFM DONALDSON 905 BAGHOUSE 905RFP12,
pressure drop (in. wg.) 2.1 / 9 psi
VE 0%,

C420B CONTROL, 15,000 SCFM METSO BAGHOUSE 276RF12
pressure drop (in. wg.) 6.5 / 9 psi
VE 0%, fugitive 0%

Relevant Permit Conditions:

Section B- General Conditions:

Condition # 003. The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit. *Permit expired on March 31, 2018. Renewal application is due no later than September 30, 2017.*

Condition # 006. Inspection and Entry. *(Compliant)*

Condition # 007. (a) The permittee shall comply with the conditions of this operating permit.

Condition # 009. (a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility. *(Compliant)*

Condition # 015. (a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a). *There are no sources in need of reactivation at this time.*

Condition # 020. (b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit. *(Compliant)*

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of

production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. (Compliant)

Section C- Site Level Conditions:

Condition # 001. The permittee shall not allow the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (a) Construction or demolition of buildings or structures. n/a
- (b) Grading, paving and maintenance of roads and streets. (Compliant)
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets. (Compliant)
- (d) Clearing of land. n/a
- (e) Stockpiling of materials. (Compliant)
- (f) Open burning operations. No open burning.
- (g) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting. (Compliant)
- (h) Sources and classes of sources other than those identified in paragraphs (a)-(g), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements: (Compliant)

Condition # 002. The permittee shall not allow fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #001 if such emissions are visible at the point the emissions pass outside the person's property. I did not detect any fugitive emissions leaving the property (Compliant).

Condition # 003. The permittee shall not allow the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner that the malodors are detectable outside the property of the person on whose land the source is being operated. I did not detect any malodors (Compliant).

Condition # 004. The permittee shall not allow the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (a) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (b) Equal to or greater than 60% at any time. I did not detect any visible emissions (Compliant).

FM-BAQ0023 2/2015 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION		INSPECTION REPORT		Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program	
Date(s) of Inspection: 4-21-16		Permit #(s): 01-05016		Expiration Date: 31 MAR 2018	
Company Name: Specialty Granules Inc		Municipality: Hamiltonban Twp.		Case #: 259373	
Plant Name: Charmian		Physical Location: 1455 Old Waynesboro Rd		County: Adams	
Responsible Official: Mike Cahill		Mailing Address: Specialty Granules Inc		Federal ID - Plant Code #: 22-3807370-1	
Title: Plant Mgr.		PO Box 0			
Phone #(s): 717-794-2184		Blue Ridge Summit, PA 17214-0914			
Mark (X) All Inspection Types That Apply To This Inspection:					
<input checked="" type="checkbox"/> Full Compliance Evaluation (FCE)	<input type="checkbox"/> Plan Approval Inspection	<input type="checkbox"/> File Review (FR)			
<input type="checkbox"/> Operating Permit Inspection (PI)	<input type="checkbox"/> Initial Permit Inspection (IPI)	<input type="checkbox"/> Complaint Inspection (CI)			
<input checked="" type="checkbox"/> Routine/Partial (RTPT)	<input checked="" type="checkbox"/> Follow-Up Inspection (Ref. Date: 10-20-15)	<input type="checkbox"/> Sample Collection (SC)			
<input type="checkbox"/> Minor Source(s) Inspection (RFD)	<input type="checkbox"/> Stack Test Observation	<input type="checkbox"/> Multi-Media Inspection (MM)			
<input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Announced				
Annual Compliance Certification Received: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			Date Received:		
AIMS Report Received: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			Date Received:		
Mark (X) All Activities That Apply:					
<input checked="" type="checkbox"/> File Review	<input checked="" type="checkbox"/> Pre-Inspection Briefing	<input checked="" type="checkbox"/> Exit Interview/Briefing			
<input checked="" type="checkbox"/> Pre-Inspection Observations	<input checked="" type="checkbox"/> Check For New/Unreported Sources	<input type="checkbox"/> Sample(s) Collected			
<input checked="" type="checkbox"/> Visible Emissions Observations	<input type="checkbox"/> Verify Operation of CEMS	<input type="checkbox"/> Other			
Comments/Recommendations: This inspection is Part II to the inspection conducted on 10-20-15 for FY2016. I was escorted by Matt Watson, Enviro. Coord. and Asher Sweet, Safety Coord. Most sources at the Intermediate Plant were in operation. The only FE to note was at the 340 crusher controlled by the (219A) Carter-Day F.B.H. - Continuous dust from crusher top and pickup. Pickup appears to be blocked, maintenance team working on the repair. The dust was contained to the building enclosure. I did not detect any VE or other FE emissions from the Intermediate Plant. I also inspected the Undersize Plant while operating - NO VE or FE to note. All records are up to date & well maintained. There were no Air Pollution violations to report. This concludes the FCE for FY2016.					
Enforcement since last FCE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach summary) CACP Oct. 2, 2015 for FE violation on Oct. 30, 2014.					
Compliance Status: <input checked="" type="checkbox"/> In <input type="checkbox"/> Out <input type="checkbox"/> Pending <input type="checkbox"/> Awaiting Co. Report			Needs a Follow-Up Inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Company Representative: Matt Watson		Title: Enviro. Coordinator		Signature: <i>[Signature]</i>	
Date: 4/21-2016					
DEP Representative: Michael Annonia		Title: AQS		Signature: <i>[Signature]</i>	
Date/Time: 4-21-16					
This document is official notification that a representative of the Department of Environmental Protection, Air Quality Program, inspected the identified site. The findings of this inspection are shown above and on any attached pages, and may include violations uncovered during the inspection. Violations may also be discovered upon review of sample results or from any additional review of Department records. Notification will be forthcoming, if such violations are noted.					

Page 1 of 1 eFacts Inspection ID#: 2477021 Date: 4-21-16 Reviewed By: *[Signature]*

☐ White - Regional Office ☒ Yellow - Site ☐ Pink - District Office

for v
m d
17-27
1 day

Roy, Ranjan

From: Crumbacker, Douglas R. <DCrumbacker@specialtygranules.com>
Sent: Thursday, August 27, 2015 3:28 PM
To: Roy, Ranjan
Cc: Watson, Matthew
Subject: FW: RFD 1228, 5B Conveyor Removed from Collector Torit Day "G"; Dedusting Reduced; Then Controlled by Donaldson Torit Powercore CP Series. Model CPV-4
Attachments: TBI Fan Brochure.pdf
Importance: High

Hi Ranjan,

Would you have a copy of the line diagram for this unit, I cannot locate what was sent to you previously.

In response to your questions,

1. Is Donaldson Torit Powercore CP series model CPV-4 a new control? YES
2. What is the rated air/gas flow? Brochure attached for the fan, SGI proposes a 5hp unit @ 2500 CFM
3. Due to the above change /modification, what is the air/gas flow change? The existing 8" duct is calculated at 1256 CFM.

Let me if you require additional info.

Good to hear from you.

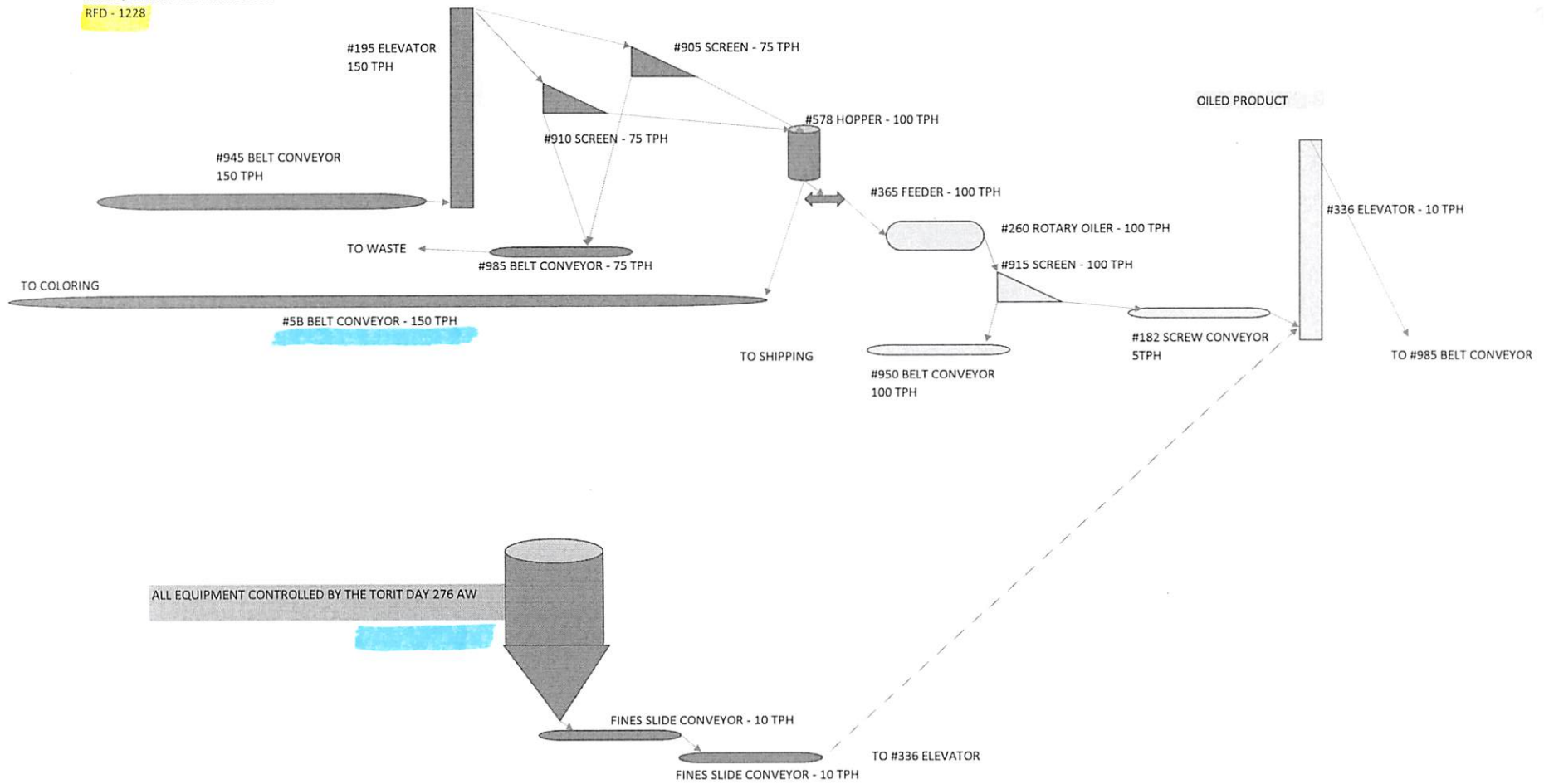
Doug

Douglas R. Crumbacker
Plant Engineer
SPECIALTY GRANULES INC.
DD:717-794-3310
Cell: 717-729-1821

From: Watson, Matthew
Sent: Thursday, August 27, 2015 11:46 AM
To: Crumbacker, Douglas R. <DCrumbacker@specialtygranules.com>
Subject: FW: RFD 1228, 5B Conveyor Removed from Collector Torit Day "G"; Dedusting Reduced; Then Controlled by Donaldson Torit Powercore CP Series. Model CPV-4
Importance: High

Doug,

SGI
DEDUSTING UNIT
SOURCE 216, CONTROL UNIT D16
ALL EQUIPMENT INSTALLED 1992
RFD - 1228





pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

MEMO

TO: Ranjan Roy
Air Quality Program
Southcentral Regional Office

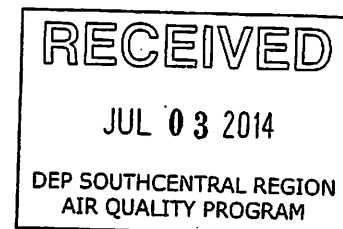
FROM: Rajdeep Singh Bhangu *RSB*
Source Testing Section

THROUGH: Charles J. Zadakis *CJZ*
Environmental Program Manager
Division of Source Testing and Monitoring

Richard J. Begley *RB*
Environmental Group Manager
Source Testing Section

DATE: May 20, 2014

RE: Source Test Review (eFACTS inspection identification No. 2266624)
Specialty Granules, Inc. (PFID No. 259373)
Product Classifier (Source ID 420), (PA-01-05016P)
Hamiltonban Township, Adams County



The Specialty Granules Inc., facility produces roofing granules. Rock blasted from the quarry is trucked to a primary crusher. The rock is conveyed to the plant processing equipment, which is located adjacent to the quarry. The plant processing equipment consists of crushers, roller mills, and vibrating screens that size the rock to the desired finished product size. The properly sized rock is further treated, painted, and prepared for shipment. Exhaust gases are controlled by a Donaldson 905 Dust Collector & Metso Dust Collector before being discharged to the atmosphere.

On November 21 & 22, 2013, Air Control Techniques, P.C. conducted testing in the exhausts of the aforementioned baghouses to determine the filterable particulate matter (FPM) & visible emissions in accordance with EPA Method 5 and EPA Method 9. Testing was performed to demonstrate compliance with the applicable conditions of Plan Approval No. PA-01-05016P. The facility was operating under normal operating conditions during testing. The test runs were performed in accordance with acceptable sampling methods and an approved test protocol. The calculations are correct and the results appear to be valid and are acceptable to the Department. Detailed Process Data is contained in Appendix 2.4 of the test report, available in PSIMS. The following data was extracted from the test report:

Emission Summary - Donaldson 905 Dust Collector

Test Run Number	1	2	3	Average
Test Date	11/21/13	11/21/13	11/21/13	-
Volumetric Flow Rate (DSCFM)	47,125	48,180	48,515	47,940
Material Throughput (Ton/hr)	75	75	75	75
FPM Emission Concentration (gr./DSCF)	0.0023	0.0019	0.0015	0.0019
Allowable FPM Emission Concentration (gr./DSCF)	0.014			
FPM Emission Rate (LB/Hr)	0.92	0.78	0.61	0.77
Visible Emission (%)	0-5	-	-	0-5

- Only one Visible Emission Test run was done

Emission Summary - Metso Dust Collector

Test Run Number	1	2	3	Average
Test Date	11/21/13	11/21/13	11/22/13	-
Volumetric Flow Rate (DSCFM)	19,912	17,737	16,881	18,177
Material Throughput (Ton/hr)	75	75	75	75
FPM Emission Concentration (gr./DSCF)	0.0024	0.0024	0.0053	0.0034
Allowable FPM Emission Concentration (gr./DSCF)	0.014			
FPM Emission Rate (LB/Hr)	0.40	0.37	0.77	0.51
Visible Emission (%)	0	-	-	0

- Only one Visible Emission Test run was done

cc: EPA/AKB
 AIMS/AKB
 Reading File, Source Testing Section
 Virendra Trivedi, Division of Permits

COLLECTORS				
SGI Name	PADEP ID #	Install Date	* = After 8/31/1983 through 8/22/2008	Location of Differential
			** = After 8/22/2008	
Intermediate & Mill				
Cart Day H	J01	2/1/2004	*	5 & 1/2 Building
Astec	C015C	5/1/2006	*	Top of Dryer Building
Carter Day D	H02	6/1/1982	N/A	Waste Unit Back Door 1st Floor
Carter Day C		2/2/2015	**	19 & 58 Transfer on Frame
Roll Collector	D12	4/28/1997	*	Down From 58 Conveyor on Leg
Carter Day G	D16	5/25/1992	*	Dedusting Building by Conveyor to Coloring Control Room
Johnson March A	D10	12/1/1974	N/A	Behind Mill toward Store Room up steps on wall in Room
Johnson March B	D11	12/1/1974	N/A	Behind Mill Toward C-3 up steps inside Room in closet
Old Dryer	D08	8/25/1997	*	Sampling Room by control room on wal
BH 500	C106	12/1/2009	**	Control Screen Control Room
BH 510	H01A	4/19/2012	**	Control Screen Control Room
Carter Day F	D09	12/1/1985	*	Intermediate Shack by 340 VSI
Single Pulse King	D02	9/1/1980	N/A	Intermediate Shack by 340 VSI
Double Pulse King	D04	9/1/1980	N/A	Old MCC Shack on Wall Downstairs of VSI
Carter Day A	F04	1980	N/A	G-11 Loadout Floor on Frame Post
Undersize Material Processing Plant				
BH 530	C420A	7/1/2013	**	Back of Undersize Plant on Framework
Classifier	C420B	7/1/2013	**	Undersize Plant Left Rear Level 2
Head-Lap Plant				
DC 102	C051B	1/1/2006	*	Back of Headlap Eye level on Frame Post
DC 101	C051A	1/1/2006	*	Uphill side of Dryer
DC 103	C051C	1/1/2006	*	Lower Side of Dryer
DC 104	C051D	1/1/2006	*	Top of Headlap Loadout on Loadout floor
Coloring Plant				
DC 440	C104	8/1/2007	*	Pigment Storage on Wall behind Yellow fence
DC 445	C105	8/1/2007	*	Pigment Storage on Wall behind Yellow fence
Carter Day E	H04	12/1/1983	*	Down Tracks on left then right on steel post
Number 1	G05	9/28/1998	*	Front of Coloring toward Headlap; Post on Baghouse
Number 2	G03	9/28/1998	*	Front of Coloring toward Office; Post on Baghouse
Scrubber Collector	G02	1982	N/A	PLC Screen in Office
CPV-4 PowerCore	D11A	12/31/2016	**	On collector platform
Number 3	G01	1/1/1990	*	left side of haul in on concrete wall