AI #2450
DQ #7603

This Capped Permit Option 2 Permit Application copy is for Public Access.

General Mills
Making Food People Love

General Mills Operations, Inc.
25 44th Ave. NE
Fridley, MN 55421

APPENDIX A

General Mills Operations, LLC
25 44th Ave. NE
Fridley, Minnesota 55421

APPLICATION FORMS

MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North
St. Paul, MN 55155-4194

SCP-01: Submittal cover page

Permit application/notification/ determination request fee submittal

Air Quality Permit Program

Doc Type: Permit Application

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Instructions on page 6.

1a) AQ Facility ID number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

3) Submittal is (choose from the following options and then complete the remainder of item 3 as directed):

- ☐ The final certified (or recertified) version of a previously-submitted permit application. **Complete Section 3A.**
- ☐ Additional or supplemental information requested by permit staff during the permit-writing process. **Complete Section 3A.**
- ☐ A request that the Minnesota Pollution Control Agency (MPCA) make an applicability determination. **Complete Section 3A.**
- ☐ An application for a new Individual Part 70 or State Permit – **Complete Section 3B**:
- ☐ An application for reissuance of an Individual Part 70 or State Permit – **Complete Section 3B.**

Note: Applications for reissuance must be submitted using the MPCA's e-Services website at https://www.pca.state.mn.us/data/e-services. Applications outside of the e-services website will only be accepted if there is a request for confidentiality.

- ☐ An application for an amendment to an existing Individual Part 70 or State Permit – **Complete Section 3B.**
- ☒ An application for a Registration Permit, Capped Permit, or General Permit – **Complete Section 3C.**
- ☐ An application for an administrative change to an existing Registration, Capped, or General Permit – **Complete Section 3C.**
- ☐ A notification required under Minn. R. 7007.1150(C); Minn. R. 7007.1250, subp. 4; Minn. R. 7007.1350; Minn. R. 7007.0800, subp. 10, item B. **Complete Section 3D.**
- ☐ A notification from a hot mix asphalt plant holding a Registration Permit of the intent to incorporate ground tear-off shingles and/or manufacturer scrap shingles in the hot mix asphalt. **Complete Section 3D.**

Section 3A – Request for applicability determination, recertification of a previously-submitted permit application, or supplement to a previously-submitted permit application

Use this section only if your submittal is one of the following:

- The final version of a previously submitted permit application, incorporating changes negotiated through the permitting process, or
- Submittal of additional or supplemental information requested by permit staff during the permit-writing process, or
- A request for the MPCA to make an applicability determination.

For final versions and supplemental information, enter the "tracking number" which can be obtained from the MPCA permit staff working on the permit.

Check one of the boxes below. Do not complete Sections 3B, 3C, or 3D. Continue with item 4 of the form.

Choose one of the following:	**Quantity**	**Points**	**Total points**
☐ Recertification of a previously-submitted permit application – tracking number: ____	NA	NA	NA
☐ Supplement to a previously-submitted permit application – tracking number: ____	NA	NA	NA
☐ An Applicability Determination Request		x 10 =	

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Section 3B – Application for an Individual Part 70 or State Permit, reissuance of an Individual Part 70 or State Permit, or amendment of an Individual Part 70 or State Permit

Choose one of the following:

- ☐ This is the original application or replacement for a denied or withdrawn application. Complete the table below.
- ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application. Enter the tracking number of the incomplete application being replaced: _____. A new fee is not required, so completion of the table below is not necessary.
- ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application. Enter the tracking number of the incomplete application being replaced: _____. Complete the table below.

If your submittal includes notifications that do not require a permit application, also complete Section 3D.

Choose one of the following:	**Quantity**	**Points**	**Total points**
☐ Application for an Individual Part 70 Permit		x 75 =	
☐ Application for an Individual State Permit		x 50 =	50
☐ Application for reissuance of an expiring Individual Part 70 or State Permit (does not include modifications to a permit that require an amendment) **Note:** Applications outside of the e-services website will only be accepted if there is a request for confidentiality.			
Expiration date: _____ *(mm/dd/yyyy)* Application due date (180 days prior to expiration): _____ *(mm/dd/yyyy)*	NA	NA	NA
☐ Application for a major amendment to an Individual State or Part 70 Permit ☐ Includes reconstruction or modification of a New Source Performance Standards (NSPS) Affected Facility not subject to New Source Review		x 25 =	
☐ Application for a moderate amendment to an Individual State or Part 70 Permit		x 15 =	
☐ Application for a minor amendment to an Individual State or Part 70 Permit		x 4 =	
☐ Application for an administrative amendment to an Individual State or Part 70 Permit. For administrative amendments to individual permits, use the MPCA's e-Services website at https://www.pca.state.mn.us/data/e-services. Administrative amendment applications outside of the e-services website will only be accepted if there is a request for confidentiality.		x 1 =	

Additional information (check all that apply):

- ☐ Submittal was preceded by pre-application work with the MPCA (for example: dispersion modeling or modeling protocol review, Air Emission Risk Analysis (AERA) review, environmental review). The tracking number associated with the preapplication work is: _____

  Date preapplication work was submitted: _____
- ☐ Permit will replace an existing permit of a different type (e.g., replacing a Capped Permit with an Individual State Permit, or replacing a Part 70 General Permit with an Individual Part 70 Permit).
- ☐ Permit is for construction of a new facility.
- ☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an Air Emission Permit.
- ☐ Project is subject to Prevention of Significant Deterioration (PSD) (40 CFR § 52.21). Send a complete copy of the application to U.S. Environmental Protection Agency (EPA) Region V (see instructions).
- ☐ Permit is required because of installation or modification of a Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP) and/or a Part 60 NSPS Affected Facility at a Stationary Source with Potential-to-Emit below all permit thresholds (Minn. R. 7007.0500, subp. 2.C.(1)).

Section 3C – Application for a Registration, Capped, or General Permit

Choose one of the following:

- ☒ This is the original application or replacement for a denied or withdrawn application. Complete the table below.
- ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application. Enter the tracking number of the incomplete application being replaced: _____. A new fee is not required, so completion of the table below is not necessary.
- ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application. Enter the tracking number of the incomplete application being replaced: _____. Complete the table below.

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If your submittal includes notifications that do not require a permit application, also complete Section 3D.

Choose one of the following:	Quantity	Points	Total points
☐ Application for a Registration Permit ☐ Option A ☐ Option B ☐ Option C ☐ Option D		x 2 =	
☒ Application for a Capped Permit ☐ Option 1 ☒ Option 2	1	x 4 =	4
☐ Application for a Part 70 General Permit ☐ Manufacturing General Permit ☐ Low Emitting Facility General Permit		x 4 =	
☐ Application for a State General Permit ☐ Nonmetallic Mineral Processing General Permit		x 3 =	
☐ Application for an administrative change to an existing Registration, Capped, or General Permit (e.g., change of facility ownership)		x 1 =	

Additional information (check all that apply):

☐ Permit will replace an existing permit of a different type (e.g., replacing a Registration Permit with a Capped Permit; replacing an Option B Registration Permit with an Option D Registration Permit; etc.)

☐ Permit is required for construction of a new facility

☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an Air Emission Permit.

☒ Permit is required because of a modification or change making the facility ineligible for its existing Air Emission Permit.

Section 3D – Notifications

If your submittal also includes a permit application, then also complete Section 3A, 3B, or 3C as applicable. Check all applicable boxes below, then continue with item 4 of the form.

☐ A notification of accumulated insignificant activities (Minn. R .7007.1250, subp. 4)

☐ A notification of installation of pollution control equipment (Minn. R. 7007.1150, item C)

☐ A notification of replacement of a unit (Minn. R. 7007.1150, item C)

☐ A notification of replacement of controls with listed controls (Minn. R. 7007.1150, item C)

☐ A notification of changes that contravene a permit term (Minn. R .7007.1350)

☐ A notification from a hot mix asphalt plant including a request to incorporate ground tear-off shingles and/or manufacturer scrap shingles in the hot mix asphalt (applies to Registration Permits) Minn. R. 7011.0913, subp. 3)

4) Total points ("total points" from Section 3A, 3B, or 3C)

4

5) Total application fee

4 (total points from item 4) x $285 = $ 1,140 (fee amount)

The application fee amount is $285 per point, payable to the MPCA. Send your payment ("fee amount") with your submittal. The fee is not refundable, per Minn. R. 7002.0016, subp. 1. There may be additional fees assessed during processing of your request, as required by Minn. R. ch. 7002.

Note: If an application is resubmitted for a different type of amendment or permit, the original fee is not refundable nor transferable. The resubmitted application fee must be paid in full.

6a) Confidentiality statement

☐ This application does not contain material claimed to be confidential under Minn. Stat. §§ 13.37, subd. 1(b) and 116.075. Skip item 6b, go to item 7.

☒ This application contains material which is claimed to be confidential under Minn. Stat. §§ 13.37, subd. 1(b) and 116.075. Complete Item 6b. Your submittal must include both Confidential and Public versions of your application.

Registration Permit applicants may not claim any portion of their application as confidential. If applying for a Registration Permit or an administrative change to a Registration Permit, you must check the first box above ("This application does not contain.....").

☒ Confidential copy of application attached ☒ Public copy of application attached

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6b) Confidentiality certification

To certify data for the confidential use of the MPCA, a responsible official must read the following, certify to its truth by filling in the signature block on the following page, and provide the stated attachments.

☒ I certify that the enclosed permit application(s) and all attachments have been reviewed by me and do contain confidential material. I understand that only specific data can be considered confidential and not the entire application or permit. I certify that I have enclosed the following to comply with the proper procedure for confidential material:

- ☒ I have enclosed a statement identifying which data contained in my application I consider confidential, and I have explained why I believe the information qualifies for confidential (or non-public) treatment under Minnesota Statutes.
- ☒ I have explained why the data for which I am seeking confidential treatment should not be considered "emissions data" which the MPCA is required to make available to the public under federal law.
- ☒ I have enclosed an application containing all pertinent information to allow for completion and issuance of my permit. This document has been clearly marked "confidential".
- ☒ I have enclosed a second copy of my application with the confidential data blacked out (not omitted or deleted entirely). It is evident from this copy that information was there, but that it is not for public review. This document has been clearly marked "public copy".

Permittee responsible official:	**Co-Permittee responsible official (if applicable)**
Print name: Julie Wavinak	Print name:
Title: Plant Manager	Title:
Signature: Julie Wavinak	Signature:
Date (mm/dd/yyyy): 05-22-24	Date (mm/dd/yyyy):

7) Submittal certification

I certify under penalty of law that the enclosed documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I also certify, in accordance with Minn. R. 7007.0500, subp. 2 (K)(2) and subp. 2 (K)(3), that I have reviewed the procedures implemented by my facility to maintain compliance and that those procedures are, to the best of my knowledge and belief, reasonable to maintain compliance with all applicable requirements, including those that will become applicable during the term of the permit.

I also certify, in accordance with Minn. R. 7007.1450, subp. 4(D), that if this application requests the use of the minor or moderate permit amendment procedures, the proposed change is not part of a larger project which, taken as a whole, would not qualify for treatment as a minor or moderate permit amendment.

Choose one of the following:

☒ I certify that no construction is associated with the permit action sought by this permit application.

☐ I certify that my project includes construction, but construction has not yet been started except as allowed under Minn. R. 7007.1110, subp. 10 or Minn. R. 7007.1250, subp. 4, and will not begin until the permit is issued except as allowed under Minn. R. 7007.1110, subp. 12; Minn. R. 7007.1142, subp. 2; Minn. R. 7007.1150, item C; or Minn. R. 7007.1450, subp. 7.

☐ My project includes construction, and construction other than what is allowed under Minnesota Rules has been started

Permittee responsible official:	**Co-Permittee responsible official (if applicable)**
Print name: Julie Wavinak	Print name:
Title: Plant Manager	Title:
Signature: Julie Wavinak	Signature:
Date (mm/dd/yyyy): 05-22-24	Date (mm/dd/yyyy):

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-GI-09

Capped Permit Requirements Form

Air Quality Permit Program

Doc Type: Permit Application

Note: You must submit this form as part of your capped permit application package.

AQ Facility ID No.: 03000018 AQ File No.: 2650

Facility Name: General Mills Operations, LLC

Federal and State Requirements

This packet of forms, **CAP-GI-09 Requirements**, will help you to determine the federal and state requirements with which your facility must comply. Be advised that you must include any applicable requirement that may not be addressed in this part of the application.

The first section of this form asks questions to find out if your facility is subject to specific federal and state regulations. To assist you in filling out this form, there are five attachments, forms **CAP-GI-09 A, D, F, G and I**. This form will direct you to each of the attachments as necessary, which will help you determine if your facility is subject to these regulations. When you are directed to an attachment, complete it as required, but *always* return to this **CAP-GI-09 Requirements** form.

In this form and the others in the CAP-GI-09 series, attach additional pages if the space provided is not sufficient.

1) National Emission Standards for Hazardous Air Pollutants for Source Categories
(NESHAP for Source Categories, 40 CFR pt. 63)

1a) To determine if any requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Source Categories (40 CFR pt. 63) apply to your facility, you must complete attached form **CAP-GI-09A Requirements: NESHAP for Source Categories** (40 CFR pt. 63).

1b) After completing form CAP-GI-09A, check one of the following boxes:

☒ **Yes**, my facility **is currently** subject to an area source NESHAP for Source Categories requirements. Go to question 1c.

☐ **No**, my facility **is not currently** subject to NESHAP for Source Categories requirements. Go to question 2.

1c) Check the box that best describes your source's compliance status with regards to applicable area source NESHAP requirements on the date of application and then go to question 2:

☒ Compliance

☐ Non-compliance. Describe: _____

2) Standards of Performance for New Stationary Sources
(NSPS, New Source Performance Standards, 40 CFR pt. 60)

2a) Have you constructed, modified (as defined in 40 CFR § 60.14), or reconstructed (as defined in 40 CFR § 60.15) your emission facility, or any portion thereof, after August 17, 1971?

☐ **No**. Go to question 3.

☒ **Yes**, you may be subject to this regulation. Complete the attached form ***CAP-GI-09D Requirements: NSPS.***

2b) After completing the above question (and the attachment if necessary) check one of the following boxes:

☒ **Yes**, my facility (or a portion of it) **is** subject to NSPS requirements. My facility is only subject to one or more of the 14 NSPS requirement listed in Minn. R. 7007.1140, subp. 2 (E). Go to question 2c.

☐ **No**, my facility **is not** subject to NSPS requirements. Go to question 3.

2c) Check the box that best describes your source's compliance status with regards to applicable NSPS requirements on the date of application and then go to question 3:

☒ Compliance

☐ Non-compliance. Describe: _____

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3) Stratospheric Ozone Protection
(1990 Clean Air Act, as amended, Sections 601-618)

3a) To determine if this federal regulation applies to your facility, you must complete the attached form **CAP-GI-09F Requirements: Stratospheric Ozone**.

3b) After completing form **CAP-GI-09F Requirements: Stratospheric Ozone**, check one of the following boxes:

☐ **Yes**, my facility **is** subject to this requirement. Go to question 3c.

☒ **No**, my facility **is not** subject to this requirement. Go to question 4.

3c) Check the box that best describes your source's compliance status with regards to applicable stratospheric ozone requirements on the date of application and then go to question 4:

☐ Compliance

☐ Non-compliance. Describe: _____

4) Risk Management Programs for Chemical Accidental Release Prevention
(40 CFR pt. 68, Section 112(r) of the Clean Air Act Amendments)

4a) Section 112(r) of the Clean Air Act requires facilities that produce, process, store or use any of the substances listed in form **GI-09G: Risk Management Programs for Chemical Accidental Release Prevention** (40 CFR pt. 68), in amounts greater than the listed thresholds, to develop and implement a risk management plan for accidental releases.

4b) Determine if you produce, process, store or use any of the substances listed in form **CAP-GI-09G: Risk Management Programs for Chemical Accidental Release Prevention**, and check one of the following boxes:

☐ **Yes**, my facility **does** produce, process, store or use one or more of the substances listed in form **CAP-GI-09G**, in amounts exceeding the listed thresholds. Go to question 4c.

☒ **No**, my facility **does not** produce, process, store or use any of the substances listed in form **CAP-GI-09G**, in amounts exceeding the listed thresholds. Go to question 5.

4c) Check the box that best describes your source's compliance status with regards to applicable 112(r) requirements on the date of application and then go to question 5:

☐ Compliance

☐ Non-compliance. Describe: _____

5) Federal Ozone Measures for the Control of Emissions from Certain Sources
(1990 Clean Air Act, as amended, Section 183(e))

5a) Rules have been promulgated under the above section of the Clean Air Act regulating Volatile Organic Compounds (VOCs) from consumer or commercial products that emit VOCs. Does your facility manufacture: (check all that apply)

☐ Household consumer products containing VOCs.

☐ Architectural coatings containing VOCs.

☐ Autobody refinishing coatings containing VOCs.

☒ My facility does not manufacture any of the above. Go to question 6.

5b) If you checked any boxes in question 5a) review the regulations at http://www.epa.gov/ttn/atw/183e/gen/183epg.html to determine whether your facility may be subject to any rules that are adopted under § 183(e) requiring emission reductions. After reviewing the regulations, check one of the following boxes.

☐ Yes, my facility is subject to consumer and commercial products regulation under section183(e). Go to question 5c.

☐ No, my facility is not subject to consumer and commercial products regulation under section183(e). Go to question 6.

5c) Check the box that best describes your source's compliance status with regards to applicable 183(e) requirements on the date of application and then go to question 6:

☐ Compliance

☐ Non-compliance. Describe: _____

6) Minnesota State Air Quality Rules

6a) To determine which Minnesota State rules you may be subject to, go to form **CAP-GI-09I Requirements: State Rules.**

6b) Whether permitted or not, **every business** and activity in Minnesota **is subject to the rules listed in the following table.** Check the box that best describes your source's compliance status with regards to the rules in the following table and other applicable state rules identified in form CAP-GI-09I on the date of application and then go to question 7:

☐ Compliance

☒ Non-compliance. Describe: General Mills has identified additional HAP VOC emissions, emitted as part of the manufacturing process, that would alter our existing permit status. These emissions were not ideitied by industry standards including AP-42. General Mills was not aware of these emissions, but after some exploratoy testing, identified their presense. After learning of these emissions, General Mills has prepared this permti application.

Title of the Rule	Minnesota Rules (Chapter or Part)	What the Content of the Rule is:
Air Quality Emission Fees	Part 7002.0025 - 7002.0095	Requires facilities to pay emission fees every year within 60 days of MPCA billing.
Air Emission Permits	Parts 7007.0050 - 7007.1850	Outlines when an air emission permit is required and procedures for obtaining one.
Trichloroethylene Ban	Part 7007.0100, subp. 7(X)	Bans facilities from using trichloroethylene after June 1, 2022, including in any manufacturing, processing, or cleaning processes, except as described in Minn. Stat. 116.385 subd. 2(B) and 4. Replacement chemicals must be demonstrated to be less toxic to human health and reviewed in a form approved by the commissioner of the MPCA.
Minnesota and National Ambient Air Quality Standards	Part 7009.0010 - 7009.0080	No one is allowed to emit any of the limited pollutants in such a manner that ambient levels of the pollutant are higher than the maximum level.
Applicability of Standards of Performance	Parts 7011.0010, and 7011.0050	Indicates that facilities must comply with all applicable state air pollution rules.
Circumvention	Part 7011.0020	States that no one may conceal or dilute emissions which would otherwise violate a federal or state air pollution control rule.
Emission Standards for Visible Air Contaminants	Part 7011.0100 - 7011.0120	Outlines restrictions against emitting opaque smoke from facilities.
Preventing Particulate Matter from Becoming Airborne	Part 7011.0150	States that no person shall cause particulate matter to become airborne if it can be avoided with listed preventative measures.
Continuous Monitors	Part 7017.1000	Outlines requirements for continuous monitoring systems.
Performance Tests	Part 7017.2001 - 7017.2060	Outlines procedures and methods for emissions and performance testing if required.
Notifications	Part 7019.1000	Requires facilities to notify the MPCA of shutdowns and breakdowns.
Reports	Part 7019.2000	Requires specific records and reports from facilities with continuous monitoring systems.
Emission Inventory	Part 7019.3000 - 7019.3100	Requires facilities to submit an Emission Inventory Report by April 1 every year.
Motor Vehicles	Part 7023.0100 - 7023.0120	Outlines restrictions against emitting opaque smoke from motor vehicles, trains, boats, construction equipment and stationary internal combustion engines.
Noise Pollution Control	Part 7030.0010 - 7030.0080	Sets noise standards which cannot be exceeded.

7) You have completed this form.

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-00

Capped Permit Qualifications Review List

Air Quality Permit Program

Doc Type: Permit Application

Note: You must submit this form as part of your capped permit application package.

AQ Facility ID No.: 03000018 AQ File No.: 2650

Facility Name: General Mills Operations, LLC

The following list of questions will help you to determine if you qualify for the capped emission permit. The capped permit contains limitations to keep the potential-to-emit for criteria and hazardous air pollutants below federal permitting thresholds. You can choose between an option 1 and an option 2 capped permit. Option 1 has higher allowable facility-wide emission limits than option 2, but requires tracking of emissions from insignificant activities. Requirements associated with the capped permit can be found in Minn. R. 7007.1140 to 7007.1148. (See https://www.revisor.mn.gov/rules/?id=7007.) Other information relating to the capped permit can be found at http://www.pca.state.mn.us/hqzq483.

Capped Permit Emission Thresholds for Options 1 and 2

POLLUTANT	Option 1 Threshold (ton/year)	Option 2 Threshold (ton/year)
Hazardous Air Pollutants (HAP)	9.0 tons per year for a single HAP 20 tons per year total for all HAPs	8.0 tons per year for a single HAP 20 tons per year total for all HAPs
Particulate Matter (PM)	90 tons per year	75 tons per year
PM smaller than 10 microns (PM_{10})	90 tons per year	75 tons per year
Volatile Organic Compounds (VOC)	90 tons per year	85 tons per year
Sulfur Dioxide (SO_2)	90 tons per year	90 tons per year
Nitrogen Oxides (NO_x)	90 tons per year	85 tons per year
Carbon Monoxide (CO)	90 tons per year	85 tons per year
Lead (Pb)	0.50 tons/year	0.50 tons/year
Carbon Dioxide Equivalent (CO_2e)	90,000 tons/year	85,000 tons/year

Questionnaire

Complete the following questions to determine if your stationary source qualifies for the capped permit. If you do not qualify for the capped permit, you must submit a permit application for a registration, Part 70, General, or State permit before you make a modification to your facility or an installation and operation permit for the modification under Minn. R. 7007.0750, subp. 5. You may not begin actual construction on the modification until the appropriate permit is obtained.

1. Which capped permit option are you applying for?
   - ☐ Capped permit Option 1; Go to question 2.
   - ☒ Capped permit Option 2; Go to question 3.
2. Will you accept a permit condition to limit actual emissions to less than the Option 1 thresholds listed in the table above based on a 12-month monthly rolling sum?
   - ☐ Yes; go to question 4.
   - ☐ No; your stationary source does not qualify for the capped permit.
3. Will you accept a permit condition to limit actual emissions to less than the Option 2 thresholds listed in the table above based on a 12-month monthly rolling sum?
   - ☒ Yes; go to question 5.
   - ☐ No; your stationary source does not qualify for the capped permit.
4. Will you accept a permit condition to calculate emissions from those insignificant activities that are quantifiable on a monthly basis? See CAP-IA Insignificant Activities List for more information.
   - ☐ Yes; Go to question 5.
   - ☐ No; evaluate if you will qualify for Option 2; otherwise your stationary source does not qualify for the capped permit.

5. You must perform an ambient air quality assessment as described in Minn. R. 7007.1148 to be eligible for a capped permit. Were the 1-hour, 3-hour, and 24-hour SO_2; the 24-hour PM_{10}; and annual Nitrogen Dioxide (NO_2) concentrations predicted in the assessment at and beyond the property line of your facility lower than the corresponding standard in Minn. R. 7009.0080? See http://www.pca.state.mn.us/hqzq483 for more information about the assessment.

   ☒ Yes, go to question 6.

   ☐ No; your stationary source does not quality for the capped permit.

6. In performing the ambient air quality assessment, did you assume any limits or conditions not contained in Minn. R. 7007.1140 to 7007.1148? Note that facilities with significant PM_{10} emissions, such as those with material handling operations, may have difficulty successfully completing the assessment without taking production or hourly limits not contained in a capped permit.

   ☐ Yes, your stationary source does not quality for the capped permit.

   ☒ No; go to question 7.

7. Are any of the emission units at your stationary source subject to any New Source Performance Standards other than 40 CFR pt. 60 Subparts Dc, I, K, Ka Kb, DD, EE, GG, SS, XX, JJJ, TTT, IIII, or JJJJ? If you have modified (as defined in 40 CFR § 60.14), reconstructed (as defined in 40 CFR § 60.15) or constructed the described emission source on or after the effective date listed in 40 CFR pt. 60, your stationary source may be subject to the requirements, see CAP-GI-09D Requirements Form.

   ☐ Yes, your stationary source does not qualify for the capped permit.

   ☒ No; go to question 8.

8. Are any of the emission units at your stationary source subject to a National Emission Standards for Hazardous Air Pollutant Sources (NESHAPS) standard other than one of the area source NESHAPS standards listed on Form CAP-GI-09A, question 1 (e.g., halogenated solvent cleaners, chromium plating, etc.)? See CAP-GI-09A Requirements Form for more information.

   ☐ Yes, your stationary source does not qualify for the capped permit.

   ☒ No; go to question 9.

9. Was (is) an environmental review required for your stationary source? (i.e., new stationary sources that have a potential to emit of 100 tons or more of any single air pollutant, and for stationary source modifications that will result in a single pollutant's potential increase in emissions of 100 tons per year or more).

   ☐ Yes; go to question 10.

   ☒ No; go to question 11.

10. Did you assume any specific conditions or limits not contained in Minn. R. 7007.1140 to 7007.1148 in obtaining a negative declaration in an environmental assessment worksheet or as a mitigation measure in an environmental impact statement?

    ☐ Yes; your stationary source does not qualify for the capped permit.

    ☒ No; go to question 11.

11. Is your facility required to obtain a permit under Minn. R. 7007.0200, subp. 3, acid rain affected sources; Minn. R. 7007.0200, subp. 4, solid waste incinerators and waste combustors; Minn. R. 7007.0200, subp. 5, other part 70 sources; Minn. R. 7007.0250, subp. 3, state implementation plan required state permit; or Minn. R. 7007.0250, subp. 6, waste combustors?

    ☐ Yes; your stationary source does not qualify for the capped permit.

    ☒ No; go to question 12.

12. Does your facility produce fuel grade ethanol or is a sector-based state general permit available for the source category your facility is in? (The only sector-based state general permit currently available is for sand and gravel operations.)

    ☐ Yes; your stationary source does not qualify for the capped permit.

    ☒ No; go to question 13.

13. Is your stationary source subject to any State Implementation Plan (SIP) limits or Best Available Control Technology (BACT) limits?

    ☐ Yes; your stationary source does not qualify for the capped permit.

    ☒ No; go to question 14.

14. In qualifying for the capped permit, will you assume the use any control equipment or control efficiencies not contained in the state Control Equipment rule (Minn. R. 7011.0060 to 7011.0080)?

    ☐ Yes; your stationary source does not qualify for the capped permit.

    ☒ No; go to question 15.

15. Have any production limits been imposed on your facility as a result of performance testing?

    ☒ No; your facility qualifies for the capped permit. Complete the remainder of the application forms.

    ☐ Yes; your stationary source does not qualify for the capped permit.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-IA

Insignificant activities

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC.

3) Check and describe insignificant activities

	Rule citation	Description of activities at the facility
☐	7007.1300, subp. 3(A)	
☐	7007.1300, subp. 3(B)(1)	
☐	7007.1300, subp. 3(B)(2)	
☐	7007.1300, subp. 3(C)(1)	
☐	7007.1300, subp. 3(C)(2)	
☐	7007.1300, subp. 3(D)	2 Quality Control Laboratories for product testing
☐	7007.1300, subp. 3(E)	Some maintenance equipment.
☐	7007.1300, subp. 3(F)	2nd floor Bran System 1 Filter Receiver. PTE for PM <1 tpy 3rd floor Bran System 2 Filter Receiver. PTE for PM<1 tpy 3rd floor Bran System 3 Filter Receiver. PTE for PM<1 tpy 1st floor Flour Surge Bin - Bin Top. PTE for PM<1 tpy Bin 301 - Bin Top. PTE for PM <1 tpy Bin 302 - Bin Top. PTE for PM <1 tpy Bin 303 - Bin Top. PTE for PM <1 tpy Bin 304 - Bin Top. PTE for PM <1 tpy Bin 305 - Bin Top. PTE for PM <1 tpy Bin 306 - Bin Top. PTE for PM <1 tpy Bin 307 - Bin Top. PTE for PM <1 tpy Bin 308 - Bin Top. PTE for PM <1 tpy Bin 309 - Bin Top. PTE for PM <1 tpy Bin 310 - Bin Top. PTE for PM <1 tpy Bin 311 - Bin Top. PTE for PM <1 tpy Bin 312 - Bin Top. PTE for PM <1 tpy Bin 313 - Bin Top. PTE for PM <1 tpy Bin 314 - Bin Top. PTE for PM <1 tpy Bin 315 - Bin Top. PTE for PM <1 tpy Bin 316 - Bin Top. PTE for PM <1 tpy

	Rule citation	Description of activities at the facility
		Bin 317 - Bin Top. PTE for PM <1 tpy Bin 318 - Bin Top. PTE for PM <1 tpy Super Sucker Filter. PTE for PM<1 tpy. Biomass Boiler Hulls Bin Filter (formerly EU40), PTE for PM<1 tpy Elevator vacuum (Exempt) House vacuum (Exempt)
☐	7007.1300, subp. 3(G)	
☐	7007.1300, subp. 4	
☐	7008.4100	
☐	7008.4110	

4) If you are applying for an option 1 capped permit for your facility, have you included all quantifiable insignificant activities on the appropriate forms (e.g. CAP-GI-04, CAP-GI-05B, CAP-GI-05C, CAP-GI-07, etc)?

☐ Yes ☒ No I am applying for an option 2 capped permit.

Form CAP-IA instructions

Three tables of insignificant activities are provided below.

- **Table IA-01.1, Insignificant activities not required to be listed**, specifies those activities that **do not** need to be included in your permit application.
- **Table IA-01.2, Insignificant activities required to be listed,** specifies those activities that must be included in your application, on the CAP-IA form.
- **Table IA-01.3, Conditionally insignificant activities**, specify those activities that must be included in your application, on the CAP-IA form.

1) **AQ Facility ID number --** Fill in your Air Quality (AQ) Facility identification (ID) number (No.) as listed on form CAP-GI-01, item 1a.

2) **Facility name --** Enter your facility name as listed on form CAP-GI-01, item 2.

3) **Description of activities -** Check the boxes for the insignificant activities listed in Tables IA-01.2 and IA-01.3 that take place at your stationary source. For each checked activity, provide a brief description of the activity taking place at your stationary source. Fill out a separate row for each listed activity. Provide enough detail in your description so it is clear how the emission unit(s) at your source meet the definition of the insignificant activity. For example, insignificant activity subpart 3(E)(1) corresponds to gasoline storage tanks with a combined total tankage capacity of not more than 10,000 gallons. If you have gasoline storage tanks that meet this definition, indicate the total capacity of your tanks to show that it is under 10,000 gallons. If you run out of room on the table, make additional copies of the form.

4) Minn. R. 7007.1145, subp. 2(D)(2) requires that a facility applying for an **option 1** permit provide emissions information for all insignificant activities listed in Minn. R. 7007.1300, subp. 3 and conditionally insignificant activities for which emission factors or other calculation methods exist. These are considered "quantifiable" insignificant activities and **you must treat quantifiable insignificant activities as you would a customary emissions unit using the appropriate forms (e.g., CAP-GI-04, CAP-GI-05B, CAP-GI-05C, CAP-GI-07, etc.).** The part 7007.1300, subpart 3 activities the Minnesota Pollution Control Agency (MCPA) believes are generally **unquantifiable** (i.e. emission factors or calculation methods do not exist) are: item B, subitem (1); item C; item D(1); item F; and item H, subitems (1), (2), (4), (5), and (6). If your facility has activities not on this list that you believe are also unquantifiable, please provide your justification as part of this form. In addition, if you have information that would allow you to quantify activities that the MPCA believes are generally unquantifiable, you must treat these activities as you would a customary emissions unit. If you are applying for an option 2 permit, you need only list the insignificant activities on this form and not on the other forms.

Table IA-01.1 Insignificant activities not required to be listed

The activities described below are **not required to be listed** in your permit application under Minn. R. 7007.0500, subp. 2(C)(2).

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

CAP-GI-01

Facility Information for Capped Permits
Air Quality Permit Program
Doc Type: Permit Application

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Instructions on Page 3

1a) AQ Facility ID No.: 03000018 **1b)** AQ File No.: 2650

2) Facility Name: General Mills Operations, LLC

3) Facility Location

Street Address: 25 44th Ave NE

City: Fridley County: Anoka Zip code: 55421

Note: If the facility is or will be located within the city limits of Minneapolis, attach a map showing the exact location.

Mailing Address:

City: State: Zip code:

4) Corporate/Company Owner

Name: General Mills, Inc.

Mailing Address: 1 General Mills Blvd

City: Golden Valley State: MN Zip code: 55426

Owner Classification: ☒ Private ☐ Local Govt. ☐ State Govt. ☐ Federal Govt. ☐ Utility

5) Corporate/Company Operator (if different than owner)

Name:

Mailing Address:

City: State: Zip code:

6) Co-permittee (if applicable)

Name:

Mailing Address:

City: State: Zip code:

7) Legally responsible official for this permit/facility

Mr/Ms: Julie Wavinak Phone:

Title: Plant Manager Fax:

At (check one): ☐ Owner Address ☐ Operator Address ☒ Emission Facility Address

☐ Other (specify):

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8) **Contact person for this permit**

Mr/Ms: Steve Elm Phone: 952-279-7546

Title: Environmental Specialist Fax:

At (check one): ☐ Owner Address ☐ Operator Address ☒ Emission Facility Address

☐ Other (specify):

E-mail address:

9) All billings for annual fees should be addressed to:

Mr/Ms: Steve Elm Phone: 952-279-7546

Title: Environmental Specialist Fax:

At (check one): ☐ Owner Address ☐ Operator Address ☐ Emission Facility Address

☐ Other (specify)

10) Standard Industrial Classification (SIC) Code and description, **and North American Industry Classification System (NAICS) code and description** for the facility:

Primary: 2041 / 311211

Secondary (if applicable): /

Tertiary (if applicable): /

Primary NAICS code: /

11) Primary product produced (or activity performed) at the facility is:

Oat flour

12) Facility is: ☒ Stationary ☐ Portable

13) Check the one that applies best to your facility:

☐ New facility planned or under construction (first permit application)

☒ Existing facility, currently operating under Air Emission Permit No. 03000018

☐ Existing facility, but have never had an Air Emission Permit issued by the MPCA

14) (Reserved for future use)

15) Is environmental review required (either an Environmental Assessment Worksheet (EAW) or an Environmental Impact Statement (EIS)) for this facility?.

☐ Yes ☒ No

Note: If you answered "Yes" to this question, you may also be required to perform an Air Emissions Risk Assessment (AERA). Please call 800-657-3864 or 651-296-6300.

16) Are you required to submit a Toxics Release Inventory (Form R) under SARA Title 313 for this facility? Call the Minnesota Emergency Planning and Community Right-to-Know Act (EPCRA) Program for more information (651-201-7400).

☐ Yes ☒ No

17) Is this facility within 50 miles of another state or the Canadian border:

☒ Yes (specify which ones) WI ☐ No

18) Brief description of the facility or proposed facility to be permitted (attach additional sheet if necessary):

Oat milling

19) (Reserved for future use)

20) Person preparing this permit application:

Mr./Ms. Ted Slavik

Title: Senior Enviornmental Engineer E-mail address: tslavik@rka-inc.com PUBLIC

Phone: 630-306-6723 Fax: Date:

Instructions for Form CAP-GI-01

1a) **AQ Facility ID No. --** Fill in your Air Quality (AQ) Facility Identification (ID) Number (No.). This is the first eight digits of the permit number for all new permits issued under the current operating permit program. If your facility has never been issued a permit under this program, leave this line blank.

1b) **AQ File No. --** Fill in your AQ File Number. This is the first group of characters in your current Air Emission Facility Permit. For example, for permit number 1899AB-93-OT-1, the AQ Facility ID number would be 1899AB. If you have never had an air quality permit, leave this line blank.

2) **Facility Name --** Enter your facility name.

3) **Facility Location --** Fill in the facility's street address and the city and county where the facility is located. Also indicate the facility's mailing address. You may use a P.O. Box number for the mailing address, but not for the street address. If the facility is or will be located within the limits of the city of Minneapolis, include a map showing the exact location of the facility.

4) **Corporate/Company Owner --** Fill in the owner name and mailing address. The owner receives the air emission permit from the MPCA. The owner is the "Permittee". Check the one "owner classification box" that most closely describes your facility.

5) **Corporate/Company Operator (if different from owner) --** The operator runs the facility on a day-to-day basis. If a separate management company operates the facility, its name goes here. The operator is also a "Permittee". Fill in if applicable; if not, fill in "N/A".

6) **Co-permittee (if applicable) --** If the emission facility has more than one owner, for example a partnership, then the second owner's name and address go here. Another example is two facilities, owned separately, where one facility exists to support the other; both facilities are subject to one permit and the two owners are considered co-permittees.

7) **Legally responsible official for this permit/facility --** Fill in the name, title, phone number and fax number (if applicable) of the Legally Responsible Official. For the purpose of Form GI-01, the Legally Responsible Official must be a person meeting the criteria for signing the application (defined in Minn. R. 7007.0100, subp. 21), which is the person who performs policy or decision making functions for the company. (A delegate may be allowed in some cases. Please refer to the rule section listed above.)

   Indicate which address applies to this person by checking the appropriate box.

8) **Contact-person for this permit --** Fill in the name, title, phone number and fax number (if applicable) of the individual to whom the permit and other permitting correspondence should be sent. Indicate which address applies to this person by checking the appropriate box. Include the e-mail address at which the contact person can be reached.

9) **All billings and annual fees should be addressed to --** Fill in the name, title, phone number and fax number (if applicable) of the individual to whom the annual emissions inventory and emissions fee billing should be sent. Indicate which address applies to this person by checking the appropriate box.

10) **Standard Industrial Classification (SIC) Code and description for the facility and North American Industry Classification System (NAICS) Code and description --** Fill in the primary (and secondary and tertiary if applicable) 4-digit SIC code(s) for the facility. A single stationary source may have more than one SIC code. For example a facility makes and prints on cardboard boxes. The facility would have a primary SIC code of 2653. If the facility does some of its own printing on-site, it would have a secondary SIC code of 2751.

    Additional SIC information may also be obtained from libraries, accounting firms or from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (order number PB 87-1000012).

    Fill in the primary six digit NAICS Code and description for the facility. Additional information may be obtained at http://www.naics.com/ or http://www.census.gov/epcd/www/naics.html.

11) **Primary product produced (or activity performed) at the facility is --** Indicate the primary product or activity of your business.

12) **Facility is stationary or portable --** Indicate whether the facility is a stationary or a portable source. A portable facility is one that operates and moves from site to site. An example of a portable facility would be an asphalt plant.

13) **Facility Status --** Place a check-mark in the box that most closely describes your facility's permitting status.

14) **(reserved for future use)**

15) **Is an environmental review required (either an Environmental Assessment Worksheet (EAW) or an Environmental Impact Statement (EIS))? --** Environmental review is sometimes required prior to construction or modification of a facility. Check the MPCA's Environmental Review web page at http://www.pca.state.mn.us/programs/envr_p.html, or call the

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520 Lafayette Road North
St. Paul, MN 55155-4194

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GI-02

Process Flow Diagram

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2.

1a) AQ Facility ID number: 03000018

1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

3) Flow diagram: (insert flow diagram below or attach a separate sheet)

See Attached Process Flow Diagrams for:

EU ID No.	Equipment Description
EU3	Elevator Primary System
EU4	Elevator Secondary System
EU5	Elevator RJ System
EU11	Rolled Oat Filter
EU13	Conditioners/Dryers
EU15	Dryer/Cooler (OTW Filter)
EU19	New Truck Receiving
EU22	Flour Filter #4
EU31	Track #2 Loadout
EU32	Track #3 Loadout
EU33	New Truck Dump Loadout
EU34	Hulls Loadout Building
EU35	Purity Loadout Building Filter
EU36	CH Filter #1
EU37	CH Filter #2
EU38	CH Filter #3
EU39	CH Filter #4

EU ID No.	Equipment Description
EU47	Conditioning Filter
EU48	Flour filter #2 filter
EU49	C.G bins filter
EU50	Dehull filter #1
EU51	Dehull filter #2
EU52	Dehull filter #3 (and Conditioners Input Cyclones)
EU53	Dehull filter #4
EU54	Dehull filter #5
EU55	Dehull filter #6
EU56	Clean Oat Conveying filter
EU57	Hulls & Feed filter
EU58	Flour filter #3 filter
EU59	Conditioner #1
EU60	Conditioner #2
EU61	Conditioner #3
EU62	Conditioner #4
EU63	Conditioner #5
EU64	Conditioner #6

All Process Flow Diagrams are **CONFIDENTIAL BUSINESS INFORMATION**

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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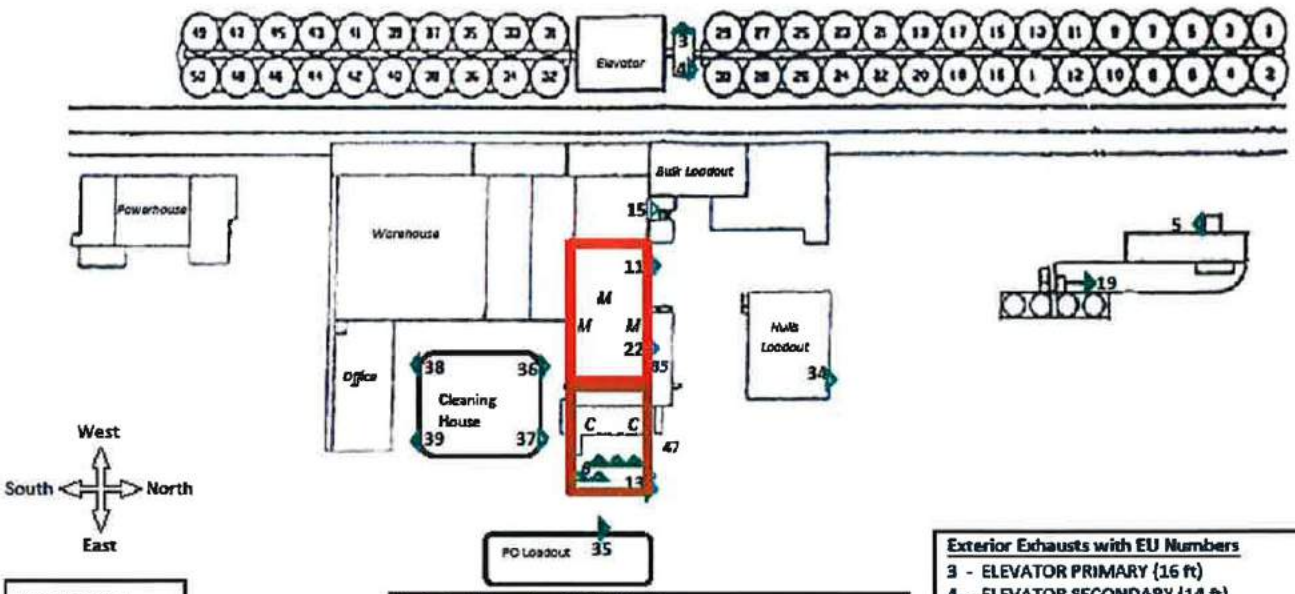
1a) AQ Facility ID number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

3) Facility and Stack/Vent Diagram:

GENERAL MILLS - FRIDLEY EXHAUST LOCATIONS



Interior Exhausts with EU Numbers
M - Mill Exhaust 43 ft to north and south, 65 ft to west
C - Conditioning Bldg Exhausts to north and south
47 - Conditioning Filter (Window 65 FT) – Conditioning Bldg
48 - Flour Filter #2 (Window 65 FT) – Conditioning Bldg
49 - CG Bins Filter (Window 43 FT) – Mill
50 - Dehull Filter #1 (Window 65 FT) – Conditioning Bldg
51 - Dehull Filter #2 (Window 65 FT) – Conditioning Bldg
52 - Dehull Filter #3 (Window 65 FT) – Conditioning Bldg
53 - Dehull Filter #4 (Window 65 FT) – Conditioning Bldg
54 - Dehull Filter #5 (Fan 65 FT) – Mill
55 - Dehull Filter #6 (Fan 65 FT) – Mill
56 - Clean Oats Conveying (Fan 65 FT) – Mill
57 - Hulls & Feed (Fan 65 FT) – Mill
58 - Flour Filter #3 (Window 43 FT) – Mill

Exterior Exhausts with EU Numbers
3 - ELEVATOR PRIMARY (16 ft)
4 - ELEVATOR SECONDARY (14 ft)
5 - OLD TRUCK DUMP (34 ft)
11 - ROLLED OATS FILTER (43 ft)
13 - CONDITIONING COOLING FILTER (26 ft, 26 ft)
15 - ROLLED OATS DRYER/COOLER FILTER (43 ft)
19 - NEW TRUCK DUMP (4 ft)
22 - FLOUR OAT MILL FILTER NO. 4 (41 ft)
36 – CH QUAD A FILTER (45 ft)
37 – CH QUAD B FILTER (45 ft)
38 – CH QUAD C FILTER (45 ft)
39 – CH QUAD D FILTER (45 ft)
35 – PURITY LOADOUT FILTER (4 ft)
6 (59 - 64) CONDITIONERS (85 ft)
47 - BIOMASS BOILER
B5 - (41 - 45) 5 SEPARATE SMALL BOILERS

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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GI-04B
Emission unit information
Air Quality Permit Program
Doc Type: Permit Application

1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 *Emission Source Association* must also be completed an submitted whenever this form is required.

	1	2	3	4
3a) SV ID number	SV3	SV4	SV5	SV11
3b) Stack/Vent operator's description	Elevator Primary System	Elevator Secondary System	Elevator RJ System	Rolled Oat Filter
3c) Height of opening from ground (ft)	95	75	30	45
3d) Inside diameter (feet)				
length (feet)	4.00	2.50	1.50	1.75
width (feet)	6.00	3.50	2.00	1.50
3e) Design flow rate (cubic feet/minute)	51,000	36,000	10,000	12,000
3f) Exit gas temp. (°F)	80	80	80	80
3g) Flow rate/temp. Information source	M = Manufacturer	T = Testing	M = Manufacturer	M = Manufacturer
3h) Discharge direction	H = horizontal	H = horizontal	H = horizontal	H = horizontal
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	5	6	7	8
3a) SV ID number	SV13-North, SV13-South	SV15	SV19	SV22
3b) Stack/Vent operator's description	Conditioners/Dryers	Dryer/Cooler (OTW Filter)	New Truck Receiving	Flour filter #4
3c) Height of opening from ground (ft)	26, 30	45	7	45
3d) Inside diameter (feet)				
length (feet)	1.46, 1.54	1.75	1.58	1.67
width (feet)	1.63, 1.67	1.17	1.92	2.50
3e) Design flow rate (cubic feet/minute)	28,730 combined	7,800	10,000	12,000
3f) Exit gas temp. (°F)	140	80	80	80
3g) Flow rate/temp. Information source	T = Testing	M = Manufacturer	M = Manufacturer	M = Manufacturer
3h) Discharge direction	C = Up w/no Cap	H = horizontal	H = horizontal	H = horizontal
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications	Note - 2 similar size stacks from the same source (EU13) within 3 feet of one another.			

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	9	10	11	12
3a) SV ID number	SV35	SV36	SV37	SV38
3b) Stack/Vent operator's description	Purity Loadout Building Filter	CH Filter #1	CH Filter #2	CH Filter #3
3c) Height of opening from ground (ft)	4	45	45	45
3d) Inside diameter (feet)				
length (feet)	3.00	4.92	3.83	4.92
width (feet)	3.00	4.92	3.83	4.92
3e) Design flow rate (cubic feet/minute)	15,000	35,000	22,000	31,000
3f) Exit gas temp. (°F)	80	80	80	80
3g) Flow rate/temp. Information source	M = Manufacturer	M = Manufacturer	M = Manufacturer	M = Manufacturer
3h) Discharge direction	H = horizontal	H = horizontal	H = horizontal	H = horizontal
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	13	14	15	16
3a) SV ID number	SV39	SV47	SV48	SV49
3b) Stack/Vent operator's description	CH Filter #4	Conditioning Filter (Conditioned oats discharge)	Flour filter #2 filter	C.G. bins filter
3c) Height of opening from ground (ft)	45	65	65	65
3d) Inside diameter (feet)				
length (feet)	3.83	1.92	2.75	1.58
width (feet)	3.83	1.63	1.83	1.33
3e) Design flow rate (cubic feet/minute)	22,000	18,600	26,700	13,000
3f) Exit gas temp. (°F)	80	80	80	80
3g) Flow rate/temp. Information source	M = Manufacturer	M = Manufacturer	M = Manufacturer	M = Manufacturer
3h) Discharge direction	H = horizontal	H = horizontal	H = horizontal	H = horizontal
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC

1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	17	18	19	20
3a) SV ID number	SV50	SV51	SV52	SV53
3b) Stack/Vent operator's description	S.W.Dehull filter #1	Dehull filter #2	Dehull filter #3 (and Conditioners Input Cyclones)	Dehull filter #4
3c) Height of opening from ground (ft)	65	65	65	65
3d) Inside diameter (feet)				
length (feet)	2.38	2.00	2.33	1.75
width (feet)	2.08	1.75	2.08	1.58
3e) Design flow rate (cubic feet/minute)	17,595	10,000	19,730	10,600
3f) Exit gas temp. (°F)	80	80	80	80
3g) Flow rate/temp. Information source	M = Manufacturer	M = Manufacturer	M = Manufacturer	M = Manufacturer
3h) Discharge direction	H = horizontal	H = horizontal	H = horizontal	H = horizontal
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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GI-04B
Emission unit information
Air Quality Permit Program
Doc Type: Permit Application

0

1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	21	22	23	24
3a) SV ID number	SV54	SV55	SV56	SV57
3b) Stack/Vent operator's description	Dehull filter #5	Dehull filter #6	Clean Oats Conveying filter	Hulls & Feed filter
3c) Height of opening from ground (ft)	65	65	65	65
3d) Inside diameter (feet)				
length (feet)	2.75	2.75	2.75	2.75
width (feet)	1.83	1.83	1.83	1.83
3e) Design flow rate (cubic feet/minute)	19,730	19,730	19,730	19,730
3f) Exit gas temp. (°F)	80	80	80	80
3g) Flow rate/temp. Information source	M = Manufacturer	M = Manufacturer	M = Manufacturer	M = Manufacturer
3h) Discharge direction	H = horizontal	H = horizontal	H = horizontal	H = horizontal
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC

GI-04B
Emission unit information
Air Quality Permit Program
Doc Type: Permit Application

0

1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	25	26	27	28
3a) SV ID number	SV58	SV59	SV60	SV61
3b) Stack/Vent operator's description	Flour filter #3 filter	Conditioner #1	Conditioner #2	Conditioner #3
3c) Height of opening from ground (ft)	65	85	85	85
3d) Inside diameter (feet)		0.67	0.67	0.67
length (feet)	2.75			
width (feet)	1.83			
3e) Design flow rate (cubic feet/minute)	19,730	600	600	600
3f) Exit gas temp. (°F)	80	180	180	180
3g) Flow rate/temp. Information source	M = Manufacturer	T = Testing	T = Testing	T = Testing
3h) Discharge direction	H = horizontal	C = Up w/no Cap	C = Up w/no Cap	C = Up w/no Cap
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	29	30	31	32
3a) SV ID number	SV62	SV63	SV64	SV41
3b) Stack/Vent operator's description	Conditioner #4	Conditioner #5	Conditioner #6	Boiler #1
3c) Height of opening from ground (ft)	85	85	85	40.00
3d) Inside diameter (feet)	0.67	0.67	0.67	0.28
length (feet)				
width (feet)				
3e) Design flow rate (cubic feet/minute)	600	600	600	3,200
3f) Exit gas temp. (°F)	180	180	180	400
3g) Flow rate/temp. Information source	T = Testing	T = Testing	T = Testing	M = Manufacturer
3h) Discharge direction	C = Up w/no Cap	C = Up w/no Cap	C = Up w/no Cap	C = Up w/no Cap
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC

1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	33	34	35	36
3a) SV ID number	SV42	SV43	SV44	SV45
3b) Stack/Vent operator's description	Boiler #2	Boiler #3	Boiler #4	Boiler #5
3c) Height of opening from ground (ft)	40.00	40.00	40.00	40.00
3d) Inside diameter (feet)	0.28	0.28	0.28	0.28
length (feet)				
width (feet)				
3e) Design flow rate (cubic feet/minute)	3,200	3,200	3,200	3,200
3f) Exit gas temp. (°F)	400	400	400	400
3g) Flow rate/temp. Information source	M = Manufacturer	M = Manufacturer	M = Manufacturer	M = Manufacturer
3h) Discharge direction	C = Up w/no Cap	C = Up w/no Cap	C = Up w/no Cap	C = Up w/no Cap
3i) Status	Active	Active	Active	Active
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC

1a) AQ Facility ID Number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC

Form GI-05 Emission Source Association must also be completed an submitted whenever this form is required.

	37	38	39	40
3a) SV ID number	SV46			
3b) Stack/Vent operator's description	Oat Hull Biomass Boiler			
3c) Height of opening from ground (ft)	85.00			
3d) Inside diameter (feet)	2.58			
length (feet)				
width (feet)				
3e) Design flow rate (cubic feet/minute)	9,250			
3f) Exit gas temp. (°F)	310			
3g) Flow rate/temp. information source	T = Testing		-	-
3h) Discharge direction	C = Up w/no Cap		-	-
3i) Status	Active			
3j) Removal date (mm/dd/yyyy)				
3k) Reasons for changes/modifications				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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GI-05A

Pollution control equipment information

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 3.

1a) AQ Facility ID Number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills Operations, LLC.

Form GI-05F Emission source association must also be completed and submitted whenever this form is required.

3a) Control Equip ID no.	3b) CE type code	3c) Description	3d) Manufacturer	3e) Model Number	3f) Installation date (mm/dd/yyyy)	3g) Removal date (mm/dd/yyyy)	3h) Pollutants Controlled	3i) Capture efficiency	3j) Destruct/ collect efficiency	3k) Afterburner/ Oxidizer combustion parameters
CE3	018	Fabric filter (T<180 °F), low temp.	MAC EQUIPMENT	144MCF361	1948/1989	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE4	018	Fabric filter (T<180 °F), low temp.	MAC EQUIPMENT	144MCF255	1969/1989	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE5	018	Fabric filter (T<180 °F), low temp.	CARTER DAY	72RJ96	1960/1989	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE11	018	Fabric filter (T<180 °F), low temp.	FLEX KLEEN	84WRBC-120	1989	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE13	018	Fabric filter (T<180 °F), low temp.	GENERAL MILLS	NONE	1989	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE15	018	Fabric filter (T<180 °F), low temp.	FLEX KLEEN	100WSBC-10	1989	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE19	018	Fabric filter (T<180 °F), low temp.	TORIT/DONALDSON	TD6120	1989	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE22	018	Fabric filter (T<180 °F), low temp.	FLEX KLEEN	84WRBC128	1990	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE35	018	Fabric filter (T<180 °F), low temp.	Schenck Process	114MCF153	2015	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE36	018	Fabric filter (T<180 °F), low temp.	Schenck Process	144MCF416	2015	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE37	018	Fabric filter (T<180 °F), low temp.	Schenck Process	144MCF255	2015	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE38	018	Fabric filter (T<180 °F), low temp.	Schenck Process	144MCF416	2015	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE39	018	Fabric filter (T<180 °F), low temp.	Schenck Process	144MCF255	2015	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE47	018	Fabric filter (T<180 °F), low temp.	General Mills	None	1998	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE48	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2009	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE49	018	Fabric filter (T<180 °F), low temp.	General Mills	None	1995	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC

GI-05A
Pollution control equipment information
Air Quality Permit Program
Doc Type: Permit Application

Instructions on Page 3.

1a) AQ Facility ID Number: 03000018 **1b)** Agency Interest ID number: 2650
2) Facility name: General Mills Operations, LLC

Form GI-05F Emission source association must also be completed and submitted whenever this form is required.

CE50	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2005	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE51	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2005	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE52	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2005	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE53	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2005	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE54	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2010	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE55	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2010	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE56	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2010	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE57	018	Fabric filter (T<180 °F), low temp.	General Mills	None	1999	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA
CE58	018	Fabric filter (T<180 °F), low temp.	General Mills	None	2008	-	Filterable PM Filterable PM10	100% 100%	99.9% 99.0%	NA

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-GI-05B
Emission Unit Information
Air Quality Permit Program

Doc Type: Permit Application

Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU3	EU4	EU5	EU11
3b) Emission unit type	ELEVATOR	ELEVATOR	ELEVATOR	Material Handling Equip.
3c) Emission unit operator's description	Elevator Primary System	Elevator Secondary System	Elevator RJ System	Rolled Oat Filter
3d) Manufacturer	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3e) Model number	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	1/1/1948 ☐ to be determined	1/1/1969 ☐ to be determined	1/1/1960 ☐ to be determined	1/1/1989 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)	1/1/1989	1/1/1989	1/1/1989	1/1/1989
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-GI-05B
Emission Unit Information
Air Quality Permit Program
Doc Type: Permit Application
Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU13	EU15	EU19	EU22
3b) Emission unit type	Thermal Process Equip.	Dryer/Oven, indirect fired	Material Handling Equip.	Material Handling Equip.
3c) Emission unit operator's description	Conditioners/Dryers	Dryer/Cooler (OTW Filter)	New Truck Receiving	Oat Mill Filter #4
3d) Manufacturer	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3e) Model number	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	10/1/1989 ☐ to be determined	10/1/1989 ☐ to be determined	10/1/1989 ☐ to be determined	1/1/1990 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CAP-GI-05B
Emission Unit Information
Air Quality Permit Program
Doc Type: Permit Application
Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) **Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.**

3a) Emission unit ID number	EU31	EU32	EU33	EU34
3b) Emission unit type	Material Handling Equip.	Material Handling Equip.	Material Handling Equip.	Material Handling Equip.
3c) Emission unit operator's description	Track #2 Loadout	Track #3 Loadout	New Truck Dump Loadout	Hulls Loadout Building
3d) Manufacturer	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3e) Model number	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	1/1/1960 ☐ to be determined	1/1/1960 ☐ to be determined	1/1/1990 ☐ to be determined	1/1/2010 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-GI-05B
Emission Unit Information
Air Quality Permit Program
Doc Type: Permit Application
Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU35	EU36	EU37	EU38
3b) Emission unit type	Material Handling Equip.	Separation equipment	Separation equipment	Separation equipment
3c) Emission unit operator's description	Purity Loadout Building Filter	CH Filter #1	CH Filter #2	CH Filter #3
3d) Manufacturer	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3e) Model number	NA - Mulitple	NA - Mulitple	NA - Mulitple	NA - Mulitple
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	7/1/2015 ☐ to be determined	7/1/2015 ☐ to be determined	7/1/2015 ☐ to be determined	7/1/2015 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CAP-GI-05B

Emission Unit Information

Air Quality Permit Program

Doc Type: Permit Application

Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU39	EU41	EU42	EU43
3b) Emission unit type	Separation equipment	Boiler	Boiler	Boiler
3c) Emission unit operator's description	CH Filter #4	Boiler #1	Boiler #2	Boiler #3
3d) Manufacturer	NA - Mulitple	Kewanee	Kewanee	Kewanee
3e) Model number	NA - Mulitple	M-425FGO	L3S-250-GO	L3S-250-X
3f) Max design capacity, material and units		10200 units: cf/ Hr material: Natural Gas	10200 units: cf/ Hr material: Natural Gas	5200 units: cf/ Hr material: Natural Gas
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	7/1/2015 ☐ to be determined	1/1/1989 ☐ to be determined	1/1/1990 ☐ to be determined	1/1/1989 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method		Not coal burning	Not coal burning	Not coal burning
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?		No	No	No
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC ACCESS COPY

CAP-GI-05B
Emission Unit Information
Air Quality Permit Program

Doc Type: Permit Application

Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU44	EU45	EU46	EU47
3b) Emission unit type	Boiler	Boiler	Boiler	Material handling equipment
3c) Emission unit operator's description	Boiler #4	Boiler #5	Biomass Boiler	Conditioning Filter
3d) Manufacturer	Kewanee	Kewanee	Hurst	NA - Multiple
3e) Model number	3L-250-50-G-GP	3L-250-50-G-GP	S100 Fire Box Design Revolving Chain Grater Stoker	NA - Multiple
3f) Max design capacity, material and units	10460 units: Lb/ Hr material: Grain	10460 units: cf/ Hr material: Natural Gas	21.46 units: MMBTU/ Hr material: Natural Gas	
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	12/15/2009 ☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	1/1/2005 ☐ to be determined	1/1/2005 ☐ to be determined	1/10/2011 ☐ to be determined	1/1/1998 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method	Not coal burning	Not coal burning	Not coal burning	
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?	No	No	No	
3n) Electric generating capacity (megawatts)				
3o) SIC code				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CAP-GI-05B
Emission Unit Information
Air Quality Permit Program
Doc Type: Permit Application
Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU48	EU49	EU50	EU51
3b) Emission unit type	Milling equipment	Material handling equipment	Material handling equipment	Material handling equipment
3c) Emission unit operator's description	Flour filter #2 filter	C.G bins filter	Dehull filter #1	Dehull filter #2
3d) Manufacturer	NA - Multiple	NA - Multiple	NA - Multiple	NA - Multiple
3e) Model number	NA - Multiple	NA - Multiple	NA - Multiple	NA - Multiple
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	1/1/2009 ☐ to be determined	1/1/1995 ☐ to be determined	1/1/2005 ☐ to be determined	1/1/2005 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-GI-05B
Emission Unit Information
Air Quality Permit Program

Doc Type: Permit Application

Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 1b) Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) **Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.**

3a) Emission unit ID number	EU52	EU53	EU54	EU55
3b) Emission unit type	Material handling equipment	Material handling equipment	Material handling equipment	Material handling equipment
3c) Emission unit operator's description	Dehull filter #3 (and Conditioners Input Cyclones)	Dehull filter #4	Dehull filter #5	Dehull filter #6
3d) Manufacturer	NA - Multiple	NA - Multiple	NA - Multiple	NA - Multiple
3e) Model number	NA - Multiple	NA - Multiple	NA - Multiple	NA - Multiple
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	1/1/2005 ☐ to be determined	1/1/2005 ☐ to be determined	1/1/2009 ☐ to be determined	1/1/2009 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CAP-GI-05B
Emission Unit Information
Air Quality Permit Program
Doc Type: Permit Application
Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU56	EU57	EU58	EU59
3b) Emission unit type	Material handling equipment	Material handling equipment	Material handling equipment	Thermal process equipment
3c) Emission unit operator's description	Clean Oats Conveying filter	Hulls & Feed filter	Flour filter #3 filter	Conditioner #1
3d) Manufacturer	NA - Multiple	NA - Multiple	NA - Multiple	General Mills
3e) Model number	NA - Multiple	NA - Multiple	NA - Multiple	NA
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	1/1/2009 ☐ to be determined	1/1/1999 ☐ to be determined	1/1/2008 ☐ to be determined	10/1/1989 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CAP-GI-05B
Emission Unit Information
Air Quality Permit Program
Doc Type: Permit Application
Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU60	EU61	EU62	EU63
3b) Emission unit type	Thermal process equipment	Thermal process equipment	Thermal process equipment	Thermal process equipment
3c) Emission unit operator's description	Conditioner #2	Conditioner #3	Conditioner #4	Conditioner #5
3d) Manufacturer	General Mills	General Mills	General Mills	General Mills
3e) Model number	NA	NA	NA	NA
3f) Max design capacity, material and units				
3g) Commence construction date (mm/dd/yyyy)	☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	10/1/1989 ☐ to be determined	10/1/1989 ☐ to be determined	1/1/2005 ☐ to be determined	1/1/2005 ☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active	Active	Active	Active
3q) Removal date (mm/dd/yyyy)				

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CAP-GI-05B
Emission Unit Information
Air Quality Permit Program

Doc Type: Permit Application

Instructions on last 5 pages.

1a) AQ Facility ID number: 03000018 **1b)** Agency Interest ID number: 2650

2) Facility name: General Mills, Operations, LLC

3) Fill in a column in the table below for each emission unit (EU/EQUI). Form GI-05F *Emission Source Association* must also be submitted whenever this form is required.

3a) Emission unit ID number	EU64			
3b) Emission unit type	Thermal process equipment			
3c) Emission unit operator's description	Conditioner #6			
3d) Manufacturer	General Mills			
3e) Model number	NA			
3f) Max design capacity, material and units		units: / material:	units: / material:	units: / material:
3g) Commence construction date (mm/dd/yyyy)	6/1/2019 ☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3h) Initial startup date (mm/dd/yyyy)	2/15/2020 ☐ to be determined	☐ to be determined	☐ to be determined	☐ to be determined
3i) Modification or reconstructed date (mm/dd/yyyy)				
3j) Firing method				
3k) Engine use				
3l) Engine displacement	Units:	Units:	Units:	Units:
3m) Subject to CSAPR?				
3n) Electric generating capacity (megawatts)				
3o) SIC code				
3p) Status	Active			
3q) Removal date (mm/dd/yyyy)				

MINNESOTA POLLUTION CONTROL AGENCY

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GI-05F

Emission source associations

Air Quality Permit Program

Doc Type: Permit Application

1a) AQ Facility ID Number **03000018** **1b)** Agency Interest ID number: **2650**

2) Facility name: **General Mills Operations, LLC**

Check this box if using GI05F for a Reissuance application. You will need the AQ SI details report labeled **SI-SI relationships.** See instructions for fields that may be maked "null" in the SI-SI relationships reports.

Note - If your most recent permit was issued after November 1, 2015 or you are applying for reissuance, use Tempo ID numbers for all equipment, stacks, controls, etc. Tempo IDs are in the form of EQUIxxx, TREAxxx, STRUxxx, FUGIxxx, etc.

3a) Source ID number	3b) % Flow	3c) Relationship	3d) CE ID number	3e) Start date (mm/dd/yyyy)	3f) End date (mm/dd/yyyy)	3g) % Flow	3h) Relationship	3i) S/V ID number	3j) Start date (mm/dd/yyyy)	3k) End date (mm/dd/yyyy)	3l) Comments
EU3	100	is controlled by	CE3	1948/1989		100	sends to	SV3	1948/1989		CE is a Baghouse
EU4	100	is controlled by	CE4	1969/1989		100	sends to	SV4	1969/1989		CE is a Baghouse
EU5	100	is controlled by	CE5	1960/1989		100	sends to	SV5	1960/1989		CE is a Baghouse
EU11	100	is controlled by	CE11	1989		100	sends to	SV11	1989		CE is a Baghouse
EU13	100	is controlled by	CE13	1989		50	sends to	SV13-North	1989		CE is a Baghouse
EU13	100	is controlled by	CE13	1989		50	sends to	SV13-South	1989		CE is a Baghouse
EU15	100	is controlled by	CE15	1989		100	sends to	SV15	1989		CE is a Baghouse
EU19	100	is controlled by	CE19	1989		100	sends to	SV19	1989		CE is a Baghouse
EU22	100	is controlled by	CE22	1990		100	sends to	SV22	1990		CE is a Baghouse
EU31		is controlled by	NA	1960			sends to		1960		Loadout into a rail car
EU32		is controlled by	NA	1960			sends to		1960		Loadout into a rail car
EU33		is controlled by	NA	1990			sends to		1990		Loadout into a truck
EU34		is controlled by	NA	2010			sends to		2010		Loadout into a truck
EU35	100	is controlled by	CE35	2015		100	sends to	SV35	2015		CE is a Baghouse
EU36	100	is controlled by	CE36	2015		100	sends to	SV36	2015		CE is a Baghouse
EU37	100	is controlled by	CE37	2015		100	sends to	SV37	2015		CE is a Baghouse
EU38	100	is controlled by	CE38	2015		100	sends to	SV38	2015		CE is a Baghouse
EU39	100	is controlled by	CE39	2015		100	sends to	SV39	2015		CE is a Baghouse
EU41	0			1989		100	sends to	SV41	1989		Boiler without a control device
EU42	0			1990		100	sends to	SV42	1990		Boiler without a control device

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GI-05F

Emission source associations

Air Quality Permit Program

Doc Type: Permit Application

1a) AQ Facility ID Number **03000018** **1b)** Agency Interest ID number: **2650**

2) Facility name: **General Mills Operations, LLC**

Check this box if using GI05F for a Reissuance application. You will need the AQ SI details report labeled **SI-SI relationships.** See instructions for fields that may be maked "null" in the SI-SI relationships reports.

Note - If your most recent permit was issued after November 1, 2015 or you are applying for reissuance, use Tempo ID numbers for all equipment, stacks, controls, etc. Tempo IDs are in the form of EQUIxxx, TREAxxx, STRUxxx, FUGIxxx, etc.

3a) Source ID number	3b) % Flow	3c) Relationship	3d) CE ID number	3e) Start date (mm/dd/yyyy)	3f) End date (mm/dd/yyyy)	3g) % Flow	3h) Relationship	3i) S/V ID number	3j) Start date (mm/dd/yyyy)	3k) End date (mm/dd/yyyy)	3l) Comments
EU43	0			1989		100	sends to	SV43	1989		Boiler without a control device
EU44	0			2005		100	sends to	SV44	2005		Boiler without a control device
EU45	0			2005		100	sends to	SV45	2005		Boiler without a control device
EU46	100	is controlled by	CE46	2011		100	sends to	SV46	2011		CE is a cyclone
EU47	100	is controlled by	CE47	1998		100	sends to	SV47	1998		CE is a Baghouse
EU48	100	is controlled by	CE48	2009		100	sends to	SV48	2009		CE is a Baghouse
EU49	100	is controlled by	CE49	1995		100	sends to	SV49	1995		CE is a Baghouse
EU50	100	is controlled by	CE50	2005		100	sends to	SV50	2005		CE is a Baghouse
EU51	100	is controlled by	CE51	2005		100	sends to	SV51	2005		CE is a Baghouse
EU52	100	is controlled by	CE52	2005		100	sends to	SV52	2005		CE is a Baghouse
EU53	100	is controlled by	CE53	2005		100	sends to	SV53	2005		CE is a Baghouse
EU54	100	is controlled by	CE54	2009		100	sends to	SV54	2009		CE is a Baghouse
EU55	100	is controlled by	CE55	2009		100	sends to	SV55	2009		CE is a Baghouse
EU56	100	is controlled by	CE56	2009		100	sends to	SV56	2009		CE is a Baghouse
EU57	100	is controlled by	CE57	1999		100	sends to	SV57	1999		CE is a Baghouse
EU58	100	is controlled by	CE58	2002		100	sends to	SV58	2002		CE is a Baghouse
EU59	11	is controlled by		1989		100	sends to	SV59	1989		HAPs and VOC emissions are mostly from this SV
EU59	89	is controlled by	CE13	1989		100	sends to	SV13	1989		CE is a Baghouse for a different part of EU emission

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GI-05F
Emission source associations
Air Quality Permit Program
Doc Type: Permit Application

1a) AQ Facility ID Number **03000018** **1b)** Agency Interest ID number: **2650**

2) Facility name: **General Mills Operations, LLC**

Check this box if using GI05F for a Reissuance application. You will need the AQ SI details report labeled **SI-SI relationships**. See instructions for fields that may be maked "null" in the SI-SI relationships reports.

Note - If your most recent permit was issued after November 1, 2015 or you are applying for reissuance, use Tempo ID numbers for all equipment, stacks, controls, etc. Tempo IDs are in the form of EQUIxxx, TREAxxx, STRUxxx, FUGIxxx, etc.

3a) Source ID number	3b) % Flow	3c) Relationship	3d) CE ID number	3e) Start date (mm/dd/yyyy)	3f) End date (mm/dd/yyyy)	3g) % Flow	3h) Relationship	3i) S/V ID number	3j) Start date (mm/dd/yyyy)	3k) End date (mm/dd/yyyy)	3l) Comments
EU60	11	is controlled by		1989		100	**sends to**	SV60	1989		HAPs and VOC emissions are mostly from this SV
EU60	89	is controlled by	CE13	1989		100	**sends to**	SV13	1989		CE is a Baghouse for a different part of EU emission
EU61	11	is controlled by		1989		100	**sends to**	SV61	1989		HAPs and VOC emissions are mostly from this SV
EU61	89	is controlled by	CE13	1989		100	**sends to**	SV13	1989		CE is a Baghouse for a different part of EU emission
EU62	11	is controlled by		2005		100	**sends to**	SV62	2005		HAPs and VOC emissions are mostly from this SV
EU62	89	is controlled by	CE13	2005		100	**sends to**	SV13	2005		CE is a Baghouse for a different part of EU emission
EU63	11	is controlled by		2005		100	**sends to**	SV63	2005		HAPs and VOC emissions are mostly from this SV
EU63	89	is controlled by	CE13	2005		100	**sends to**	SV13	2005		CE is a Baghouse for a different part of EU emission
EU64	11	is controlled by		2020		100	**sends to**	SV64	2020		HAPs and VOC emissions are mostly from this SV
EU64	89	is controlled by	CE13	2020		100	**sends to**	SV13	2020		CE is a Baghouse for a different part of EU emission

SAVE FOR CAP-GI-09

Capped Permit Requirements Form

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MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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CAP-GI-09A

Capped Permit Requirements:
NESHAP for Source Categories (40 CFR pt. 63)

Air Quality Permit Program

Doc Type: Permit Application

National Emission Standards for Hazardous Air Pollutants for source categories (NESHAP for Source Categories, 40 CFR pt. 63)

Tables A (Hazardous Air Pollutants) and B (Source Categories) are provided for your reference and to assist with completing CAP-00. They are not used to answer Question 1 on this form.

AQ Facility ID number: 03000018 Agency Interest ID number: 2650

Facility name: General Mills Operations, LLC

1) If your source has any equipment that belongs to the following area source categories, place a check in the box next to that category and read the specified NESHAP for Source Categories to determine all applicable requirements for area sources. The rules for these source categories may apply whether or not your facility is considered a major source for hazardous air pollutants. If you check one or more boxes below, you must answer **"Yes"** to question 1b when you return to Form CAP-GI-09. If any part of your facility is subject to a listed standard that requires a Part 70 operating permit, you may not get a Capped Permit but must instead apply for and obtain a Part 70 permit.

- ☐ Acrylic and Modacrylic Fibers Production, 40 CFR § 63 Subpart LLLLLL
- ☐ Asphalt Processing and Asphalt Roofing Manufacturing, 40 CFR § 63 Subpart AAAAAAA
- ☐ Carbon Black Production, 40 CFR § 63 Subpart MMMMMM *(see note 1)*
- ☐ Chemical Manufacturing Area Sources, 40 CFR § 63 Subpart VVVVVV *(see note 2)*
- ☐ Chemical Manufacturing: Chromium Compounds, 40 CFR § 63 Subpart NNNNNN *(see note 1)*
- ☐ Chemical Preparations Industry, 40 CFR § 63 Subpart BBBBBBB
- ☐ Chromic acid anodizing **(Chromium Electroplating)**, 40 CFR § 63 Subpart N
- ☐ Clay Ceramics Manufacturing, 40 CFR § 63 Subpart RRRRRR
- ☐ Commercial dry cleaning (Perc) transfer machines, 40 CFR § 63 Subpart M
- ☐ Commercial sterilization facilities, 40 CFR § 63 Subpart O
- ☐ Decorative chromium electroplating **(Chromium Electroplating)**, 40 CFR § 63 Subpart N
- ☐ Electric Arc Furnace Steelmaking Facilities, 40 CFR § 63 Subpart YYYYY *(see note 1)*
- ☐ Ferroalloys Production Facilities, 40 CFR § 63 Subpart YYYYYY
- ☐ Flexible Polyurethane Foam Production and Fabrication, 40 CFR § 63 Subpart OOOOOO
- ☐ Gasoline Dispensing Facilities, 40 CFR § 63 Subpart CCCCCC
- ☐ Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities, 40 CFR § 63 Subpart BBBBBB
- ☐ Glass Manufacturing, 40 CFR § 63 Subpart SSSSSS *(see note 1)*
- ☐ Gold Mine Ore Processing and Production, 40 CFR § 63 Subpart EEEEEEE
- ☐ Halogenated solvent cleaners (Degreasing Organic Cleaners), 40 CFR § 63 Subpart T
- ☐ Hard chromium electroplating **(Chromium Electroplating)**, 40 CFR § 63 Subpart N
- ☐ Hospital Sterilizers Using Ethylene Oxide, 40 CFR § 63 Subpart WWWWW
- ☒ Industrial, Commercial, and Institutional Boilers, 40 CFR § 63 Subpart JJJJJJ
- ☐ Iron and Steel Foundries Area Sources, 40 CFR § 63 Subpart ZZZZZ
- ☐ Lead Acid Battery Manufacturing, 40 CFR § 63 Subpart PPPPPP
- ☐ Metal Fabrication and Finishing Sources, 40 CFR § 63 Subpart XXXXXX
- ☐ Nonferrous Foundries: Aluminum, Copper, and Other, 40 CFR § 63 Subpart ZZZZZZ
- ☐ Oil and natural gas production, 40 CFR § 63 Subpart HH
- ☐ Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR § 63 Subpart HHHHHH
- ☐ Paints and Allied Products Manufacturing, 40 CFR § 63 Subpart CCCCCCC
- ☐ Plating and Polishing Operations, 40 CFR § 63 Subpart WWWWWW
- ☐ Polyvinyl Chloride and Copolymers Production, 40 CFR § 63 Subpart DDDDDD
- ☐ Prepared Feeds Manufacturing, 40 CFR § 63 Subpart DDDDDDD
- ☐ Primary Copper Smelting, 40 CFR § 63 Subpart EEEEEE *(see note 1)*
- ☐ Primary Nonferrous Metals: Zinc, Cadmium, and Beryllium, 40 CFR § 63 Subpart GGGGGG *(see note 1)*

☒ Reciprocating Internal Combustion Engines, 40 CFR § 63 Subpart ZZZZ
☐ Secondary aluminum processing, 40 CFR § 63 Subpart RRR
☐ Secondary Copper Smelting, 40 CFR § 63 Subpart FFFFFF *(see note 1)*
☐ Secondary Nonferrous Metals Processing (Brass, Bronze, Magnesium, Zinc), 40 CFR § 63 Subpart TTTTTT
☐ Wood Preserving, 40 CFR § 63 Subpart QQQQQQ

Notes

1. If any part of your facility is subject Subpart(s) MMMMMM, NNNNNN, YYYYY, SSSSSS, EEEEEE, EEEEEEE, GGGGGG, and/or FFFFFF, you must apply for and obtain a Part 70 operating permit; a facility subject to any of these subparts does not qualify for a Capped Permit.
2. If a source subject to this subpart was a major source of HAP and installed control equipment after November 15, 1990, to become an area source of HAP, the source must obtain a Part 70 operating permit, regardless of the facility emissions.

2) Return to Form CAP-GI-09 and answer question 1b.

Table A - Hazardous Air Pollutants

75070	Acetaldehyde
60355	Acetamide
75058	Acetonitrile
98862	Acetophenone
53963	2-Acetylaminofluorene
107028	Acrolein
79061	Acrylamide
79107	Acrylic acid
107131	Acrylonitrile
107051	Allyl chloride
92671	4-Aminobiphenyl
62533	Aniline
90040	o-Anisidine
1332214	Asbestos
71432	Benzene
92875	Benzidine
98077	Benzotrichloride
100447	Benzyl chloride
92524	Biphenyl
117817	Bis (2-ethylhexyl) phthalate (DEHP)
542881	Bis (chloromethyl) ether
75252	Bromoform
106945	1-Bromopropane (n-propyl bromide)
106990	1,3-Butadiene
156627	Calcium cyanamide
133062	Captan
63252	Carbaryl
75150	Carbon disulfide
56235	Carbon tetrachloride
463581	Carbonyl sulfide
120809	Catechol
133904	Chloramben
57749	Chlordane
7782505	Chlorine
79118	Chloroacetic acid
532274	2-Chloroacetophenone
108907	Chlorobenzene
510156	Chlorobenzilate
67663	Chloroform
107302	Chloromethyl methyl ether
126998	Chloroprene
1319773	Cresols/Cresylic acid (isomers and mixture)
95487	0-Cresol
108394	m-Cresol
106445	p-Cresol
98828	Cumene
94757	2,4-D, salts and esters
3547044	DDE
334883	Diazomethane
132649	Dibenzofurans
96128	1,2-Dibromo-3-chloropropane
84742	Dibutylphthalate
106467	1,4-Dichlorobenzene(p)
91941	3,3'-Dichlorobenzidene
111444	Dichloroethyl ether (Bis(2-chloroethyl)either)
542756	1,3-Dichloropropene
62737	Dichlorvos
111422	Diethanolamine
121697	N,N-Diethyl aniline (N,N- Dimethylaniline)
64675	Diethyl sulfate
119904	3,3-Dimethoxybenzidine
60117	Dimethyl aminoazobenzene
119937	3,3-Dimethyl benzidine
79447	Dimethyl carbamoyl chloride
68122	Dimethyl formamide
57147	1,1 Dimethyl hydrazine
131113	Dimethyl phthalate
77781	Dimethyl Sulfate
534521	4,6-Dintro-o-cresol, and salts
51285	2,4-Dinitrophenol
121142	2,4-Dinitrotoluene
123911	1,4-Dioxane (1.4-Diethyleneoxide)
122667	1,2-Diphenylhydrazine
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)
106887	1,2-Epoxybutane
140885	Ethyl acrylate
100414	Ethyl benzene
51796	Ethyl carbamate (Urethane)
75003	Ethyl chloride (Chloroethane)
106934	Ethylene dibromide (Dibromoethane)
107062	Ethylene dichloride (1,2- Dichloroethane)
107211	Ethylene glycol
151564	Ethylene imine (Aziridine)
75218	Ethylene oxide
96457	Ethylene thiourea
75343	Ethylidene dichloride (1,1-Dichloroethane)
50000	Formaldehyde
76448	Heptachlor
118741	Hexachlorobenzene
87683	Hexachlorobutadiene
77474	Hexachlorocyclopentadiene
67721	Hexachloroethane
822060	Hexamethylene-1,6-diisocyanate
680319	Hexamethylphosphoramide
110543	Hexane
302012	Hydrazine
7647010	Hydrochloric acid
7664393	Hydrogen flouride (hydrofluoric acid)
123319	Hydroquinone
78591	Isophorone
58899	Lindane (all isomers)
108316	Maleic anhydride
67561	Methanol
72435	Methoxychlor
74839	Methyl bromide (Bromomethane)
74873	Methyl chloride (Choromethane)
71556	Methyl chloroform (1,1,1-Trichloroethane)
60344	Methyl hydrazine
74884	Methyl iodide (Iodomethane)
108101	Methyl isobutyl ketone (Hexone)
624839	Methyl isocyanate
80626	Methyl methacrylate
1634044	Methyl tert butyl ether
101144	4,4-Methylene bis (2-chloroaniline)
75092	Methylene chloride (Dichloromethane)
101688	Methlene diphenyl diisocyanate (MDI)
101779	4,4'-methylenedianiline

Table A - Hazardous Air Pollutants

91203	Naphthalene
98953	Nitrobenzene
92933	4-Nitrobiphenyl
100027	4-Nitrophenol
79469	2-Nitropropane
684935	N-Nitroso-N-methylurea
62759	N-Nitrosodimethylamine
59892	N-Nitosomorpholine
56382	Parathion
82688	Pentachloronitrobenzene (Quintobenzene)
87865	Pentachlorophenol
108952	Phenol
106503	p-Phenylenediamine
75445	Phosgene
7803512	Phosphine
7723140	Phosphorus
85449	Phthalic anhydride
1336363	Polychlorinated biphenyls (aroclors)
1120714	1,3-Propane sultone
57578	beta-Propiolactone
123386	Propionaldehyde
114261	Propoxur (Baygon)
78875	Propylene dichloride (1,2-Dichloropropane)
75569	Propylene oxide
75558	1,2-Propylenimine (2-Methyl aziridine)
91225	Quinoline
106514	Quinone
100425	Styrene
96093	Styrene Oxide
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin
79345	1,1,2,2-Tetrachloroethane
127184	Tetrachloroethylene (Perchloroethylene)
7550450	Titanium tetrachloride
108883	Toluene
95807	2,4-Toluene diamine
584849	2,4-Toluene diisocyanate
95534	o-Toluidine
8001352	Toxaphene (chlorinated camphene)
120821	1,2,4-Trichlorobenzene
79005	1,1,2-Trichloroethane
79016	Trichloroethylene (TCE) [5]
95954	2,4,5-Trichlorophenol
88062	2,4,6-Trichlorophenol
121448	Triethylamine
1582098	Trifluralin
540841	2,2,4-Trimethylpentane
108054	Vinyl acetate
593602	Vinyl bromide
75014	Vinyl chloride
75354	Vinylidene chloride (1,1-Dichloroethylene)
1330207	Xylenes (isomers and mixtures)
95476	o-Xylenes
108383	m-Xylenes
106423	p-Xylenes
0	Antimony compounds
0	Arsenic compounds (inorganic including arsine)
0	Beryllium compounds
0	Cadmium compounds
0	Chromium compounds
0	Cobalt compounds
0	Coke oven emissions
0	Cyanide compounds
0	Glycol ethers [1]
0	Lead compounds
0	Manganese compounds
0	Mercury compounds
0	Mineral fibers [2]
0	Nickel compounds
0	Polycyclic organic matter [3]
0	Radionuclides [4]
0	Selenium compounds

Note: For all listings above which contain the word "compounds" and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

[1] Glycol ethers include mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-$(OCH_2CH_2)_n$-OR' where

n = 1, 2, or 3

R = alkyl C7 or less; or

R = phenyl or alkyl substituted phenyl;

R' = H or alkyl C7 or less; or

OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.

Glycol ethers do no include ethylene glycol monobutyl ether (EGBE, 2-Butoxyethanol, CAS Number 111-76-2).

[2] Includes mineral fiber emissions from facilities manufacturing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micron or less.

[3] Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100°C.

[4] A type of atom which spontaneously undergoes radioactive decay.

[5] Trichloroethylene (TCE) use on or after June 1, 2022, is banned in Minnesota, under Minnesota Statutes, section 116.385.

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Table B – Source Categories

Categories of Major Sources	Subpart	Rule Promulgation Date	Compliance Date for Existing Sources (if applicable)
Acetyl resins production (Generic MACT)	YY	6/29/99	6/29/02
Acrylic fibers/modacrylic fibers production (Generic MACT)	YY	6/29/99	6/29/02
Acrylonitrile-butadiene-styrene production (Polymers and Resins IV)	JJJ	9/12/96	7/31/97
Aerospace Industry	GG	9/1/95	9/1/98
Alkyd resins production (Misc. Organic Chemical Production and Processes (MON))	FFFF	11/10/03	11/10/06
Amino resins production(Polymers and Resins III)	OOO	1/20/00	1/20/03
Ammonium sulfate production (MON)	FFFF	11/10/03	11/10/06
Asphalt/coal tar application - metal pipes	MMMM	1/2/04	1/2/07
Asphalt Roofing and Processing	LLLLL	4/29/03	5/1/06
Auto and Light Duty Truck Surface Coating	IIII	4/26/04	4/26/07
Benzyltrimethylammonium chloride production (MON)	FFFF	11/10/03	11/10/06
Boat manufacturing	VVVV	8/22/01	8/22/04
Brick and Structural Clay Products Manufacturing	JJJJJ	5/16/03	5/16/06
Butadiene-furfural cotrimer (R-11) production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Butyl rubber production (Polymers and Resins I)	U	9/5/96	3/5/97
Captafol production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Captan production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Carbon Black Production (Generic MACT)	YY	7/12/02	7/12/05
Carboxymethylcellulose production (Cellulose Production Manufacturing)	UUUU	6/11/02	6/11/05
Carbonyl sulfide production (MON)	FFFF	11/10/03	11/10/06
Cellophane production (Cellulose Production Manufacturing)	UUUU	6/11/02	6/11/05
Cellulose ethers production (Cellulose Production Manufacturing)	UUUU	6/11/02	6/11/05
Cellulose food casing manufacturing (Cellulose Production Manufacturing)	UUUU	6/11/02	6/11/05
Clay Ceramics Manufacturing	KKKKK	5/16/03	5/16/06
Chelating agents production (MON)	FFFF	11/10/03	11/10/06
Chlorinated paraffins production (MON)	FFFF	11/10/03	11/10/06
4-chloro-2-methyl acid production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Chloroneb production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Chlorothalonil production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Chromic acid anodizing (Chromium Electroplating)	N	1/25/95	1/25/97
Coke Ovens: Charging, Top Side, and Door Leaks	L	10/27/93	varies
Coke Ovens: Pushing, Quenching and Battery Stacks	CCCCC	4/14/03	4/14/06
Combustion (Gas) Turbines	YYYY	3/5/04	3/5/07
Commercial dry cleaning (Perc) transfer machines	M	9/22/93	9/23/96
Commercial sterilization facilities	O	12/6/94	12/6/98
Cyanide Chemicals Manufacturing (Generic MACT)	YY	7/12/02	7/12/05
Dacthal ™ production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Decorative chromium electroplating (Chromium Electroplating)	N	1/25/95	1/25/96
4,6,-dinitro-o-cresol production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03

Table B (continued)

Categories of Major Sources	Subpart	Rule Promulgation Date	Compliance Date for Existing Sources (if applicable)
Engine Test Cells/Stands	PPPPP	5/27/03	5/27/03
Epichlorohydrin elastomers production(Polymers and Resins I)	U	9/5/96	3/5/97
Epoxy resins production (Polymers and Resins II)	W	3/8/95	3/3/98
Ethylene-propylene rubber production (Polymers and Resins I)	U	9/5/96	3/5/97
Ethylidene norbomene production (MON)	FFFF	11/10/03	11/10/06
Explosives production (MON)	FFFF	11/10/03	11/10/06
Ethylene Processes (Generic MACT)	YY	7/12/02	7/12/05
Fabric Printing, Coating, & Dyeing	OOOO	5/29/03	5/29/06
Ferroalloys Production	XXX	5/20/99	5/20/01
Fiberglass Mat Production (wet formed)	HHHH	4/11/02	4/11/05
Flexible Polyurethane Foam Fabrication Operations	MMMMM	4/14/03	4/14/04
Flexible Polyurethane Foam Production	III	10/7/98	10/8/01
Friction Products Manufacturing	QQQQQ	10/18/02	10/18/05
Fume Silica Production (Hydrochloric Acid Production)	NNNNN	4/17/03	4/17/06
Gasoline distribution (Stage 1)	R	12/14/94	12/15/97
Halogenated solvent cleaners (Degreasing Organic Cleaners)	T	12/2/94	12/2/97
Hard chromium electroplating (Chromium Electroplating)	N	1/25/95	1/25/97
Hazardous Waste Combustion		9/30/99	9/30/03
Hazardous Organic NESHAP (Synthetic Organic Chemical Manufacturing Industry)	F,G	4/22/94	5/14/01
	H	4/22/94	5/12/99
	I	4/22/94	5/12/98
Hydrazine production (MON)	FFFF	11/10/03	11/10/06
Hydrochloric acid production	NNNNN	4/17/03	4/17/06
Hydrogen Fluoride Production (Generic MACT)	YY	6/29/99	6/29/02
Hypalon ™ production (Polymers and Resins I)	U	9/5/96	3/5/97
Industrial, Commercial and Institutional Boilers and Process Heaters	DDDDD	5/20/11	3/21/14
Industrial Dry Cleaning (Dry Cleaning)	M	9/22/93	12/20/93
Industrial Cooling Towers	Q	9/8/94	3/8/95
Integrated Iron and Steel Manufacturing	FFFFF	5/20/03	5/20/06
Iron & Steel Foundries	EEEEE	4/22/04	4/22/07
Large Appliance Surface Coating	NNNN	7/23/02	7/23/05
Leather Finishing Operation	TTTT	2/27/02	2/27/05
Lime Manufacturing	AAAAA	1/5/04	1/5/07
Magnetic Tape Surface Coating	EE	12/15/94	12/15/96
Maleic anhydride copolymers production (MON)	FFFF	11/10/03	11/10/06
Manufacture of paints, coating and adhesives (MON)	FFFF	11/10/03	11/10/06
Marine Vessel Loading Operations	Y	9/19/95	9/19/99
Mercury cell Chlor-Alkali plants	IIIII	12/19/03	12/19/06
Metal Can Surface Coating	KKKK	11/13/03	11/13/05
Metal Coil Surface Coating	SSSS	6/10/02	6/10/05
Metal Furniture Surface Coating	RRRR	5/23/03	5/23/06
Methylcellulose production (Cellulose Production Manufacturing)	UUUU	6/11/02	6/11/05
Methyl methacrylate-acrylonitrile-butadiene-styrene production (Polymers and Resins IV)	JJJ	9/12/96	7/31/97

Table B (continued)

Categories of Major Sources	Subpart	Rule Promulgation Date	Compliance Date for Existing Sources (if applicable)
Methyl methacrylate-butadiene-styrene terpolymers production (Polymers and Resins IV)	JJJ	9/12/96	7/31/97
Mineral Wool Production	DDD	6/1/99	6/1/02
Miscellaneous Coating Manufacturing	HHHHH	12/11/03	12/11/06
Miscellaneous Metal Parts and Products Surface Coating	MMMM	1/2/04	1/2/07
Municipal Solid Waste Landfills	AAAA	1/16/03	1/16/04
Natural gas transmission and storage	HHH	6/17/99	6/17/02
Neoprene production (Polymers and Resins I)	U	9/5/96	3/5/97
Nitrile butadiene rubber prod. (Polymers and Resins I)	U	9/5/96	3/5/97
Non-nylon polyamides production (Polymers and Resins I)	W	3/8/95	3/3/98
Nutritional Yeast Manufacture	CCCC	5/21/01	5/21/04
Off-site Waste Recovery Operations	DD	7/1/96	2/1/00
Oil and natural gas production	HH	6/17/99	6/17/02
Organic liquids distribution (non-gasoline)	EEEE	2/3/04	2/3/07
Oxybisphenoxarsine (OBPA)/1,3-diisocyanate production (MON)	FFFF	11/10/03	11/10/06
Paper and other webs surface coating	JJJJ	12/4/02	12/4/05
Petroleum refineries - catalytic cracking (fluid and other) units, catalytic reforming units, and sulfur plant units	UUU	4/11/02	4/11/05
Petroleum refineries - Other sources not distinctly listed	CC	8/18/95	8/18/98
Pharmaceuticals production	GGG	9/21/98	9/21/01
Phenolic resins production (Polymers and Resins III)	OOO	1/20/00	1/20/03
Phosphate fertilizers production	BB	6/10/99	6/10/02
Phosphoric acid manufacturing	AA	6/10/99	6/10/02
Photographic chemicals production (MON)	FFFF	11/10/03	11/10/06
Phthalate plasticizers production (MON)	FFFF	11/10/03	11/10/06
Plastic parts and products surface coating	PPPP	4/19/04	4/19/07
Plywood & composite wood products	DDDD	7/30/04	9/28/07
Polyether polyols production	PPP	6/1/99	6/1/02
Polybutadiene rubber production (Polymers and Resins I)	U	9/5/96	3/5/97
Polycarbonates production (Generic MACT)	YY	6/29/99	6/29/02
Polyester resins production (MON)	FFFF	11/10/03	11/10/06
Polyethylene terephthalate production (Polymers and Resins IV)	JJJ	9/12/96	7/31/97
Polymerized vinylidene chloride production (MON)	FFFF	11/10/03	11/10/06
Polymethyl methacrylate resins production (MON)	FFFF	11/10/03	11/10/06
Polystyrene production (Polymers and Resins IV)	JJJ	9/12/96	7/31/97
Polysulfide rubber production (Polymers and Resins I)	U	9/5/96	3/5/97
Polyvinyl acetate emulsions production (MON)	FFFF	11/10/03	11/10/06
Polyvinyl alcohol production (MON)	FFFF	11/10/03	11/10/06
Polyvinyl butyral production (MON)	FFFF	11/10/03	11/10/06
Polyvinyl chloride and copolymers production	J	7/10/02	7/10/05
Portland cement manufacturing	LLL	6/14/99	6/10/02
Primary aluminum production	LL	10/7/97	10/7/99
Primary copper smelting	QQQ	6/12/02	6/12/05
Primary lead smelting	TTT	6/4/99	5/4/01
Primary magnesium refining	TTTTT	10/10/03	10/11/04
Printing/publishing	KK	5/30/96	5/30/99
Publicly owned treatment works	VVV	10/26/99	10/26/02
Pulp and paper production (non-combust) MACT I	S	4/15/98	4/15/01
Pulp and paper production (combust) (Kraft, soda, sulfite) MACT II	MM	1/12/01	1/12/04

Table B (continued)

Categories of Major Sources	Subpart	Rule Promulgation Date	Compliance Date for Existing Sources (if applicable)
Pulp and paper production (non-chemical) MACT III	S	3/8/96	4/16/01
Quaternary ammonium compounds production (MON)	FFFF	11/10/03	11/10/06
Rayon production (Cellulose Production Manufacturing)	UUUU	6/11/02	6/11/05
Reciprocating Internal Combustion Engines	ZZZZ	6/15/04	6/15/07
Refractory Products Manufacturing	SSSSS	4/16/03	4/17/06
Reinforced plastic composites production	WWWW	4/21/03	4/21/06
Rubber chemicals manufacturing (MON)	FFFF	11/10/03	11/10/06
2,4- salts and esters production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Secondary aluminum prod.	RRR	3/23/00	3/24/03
Secondary lead smelting	X	6/23/95	6/23/97
Semiconductor manufacturing	BBBBB	5/22/03	5/22/06
Shipbuilding and ship repair (surface coating)	II	12/15/95	12/16/96
Site remediation	GGGGG	10/8/03	10/9/06
Sodium pentachlorophenate production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Spandex production (Generic MACT)	YY	7/12/02	7/12/05
Stationary combustion turbines	YYYY	3/5/04	3/5/07
Steel pickling	CCC	6/22/99	6/22/01
Styrene-acrylonitrile production (Polymers and Resins IV)	JJJ	9/12/96	7/31/97
Styrene-butadiene rubber and latex prod. (Polymers and Resins I)	U	9/5/96	3/5/97
Symmetrical tetrachloropyridine production (MON)	FFFF	11/10/03	11/10/06
Taconite iron ore processing	RRRRR	10/30/03	10/30/06
Tetrahydrobenzaldehyde manufacture	F	5/12/98	5/12/01
Tire manufacturing	XXXX	7/9/02	7/11/05
Tordon ™ acid production (Pesticide Active Ingredient Production)	MMM	6/23/99	12/23/03
Utility NESHAP	UUUUU	2/16/12	4/16/15
Vegetable oil production – solvent extraction	GGGG	4/12/01	4/12/04
Wood building products (surface coating)	QQQQ	5/28/03	5/28/06
Wood furniture	JJ	12/7/95	11/21/97
Wool fiberglass manufacturing	NNN	6/14/99	6/14/02

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC

Standards of Performance for New Stationary Sources (NSPS, New Source Performance Standards, 40 CFR pt. 60)

1a) AQ Facility ID No.: 03000018 **1b)** Agency Interest ID No.: 2650

2) Facility Name: General Mills Operations, LLC

3) NSPS are federal rules that define limits, testing and monitoring for certain specific emission units. These standards are proposed and promulgated in the Federal Register and published in the Code of Federal Regulations, title 40 part 60 (40 CFR pt. 60). Table D lists the standards promulgated through December 2012. Table D may not be complete if a new NSPS has been promulgated since this form was last revised. The table contains:

- a brief emission source description;
- a corresponding 40 CFR pt. 60 subpart reference;
- an effective date for all performance standards promulgated as of December 2012; and
- NSPS allowed by capped emissions permit in boldface type.

[Please note: The best way to keep up-to-date on NSPS regulations is through the U.S. Environmental Protection Agency's (EPA) webpage (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60?toc=1) or the Federal Register since there can be a significant time lag between the date when a standard is proposed or promulgated and when it is finally published in the Code of Federal Regulations.]

4) Please read through the emission sources in Table D. If you have modified (as defined in 40 CFR § 60.14), reconstructed (as defined in 40 CFR § 60.15) or constructed the described emission source on or after the effective date listed in the table, your facility may be subject to the requirements of 40 CFR pt. 60. Generally, reconstruction means that the cost of a repair exceeds 50% of what it would cost to install a new emission unit. If you have had an extensive and expensive repair, it may count as a reconstruction.

If you know or suspect standards may apply to your facility you must refer to the corresponding 40 CFR pt. 60, subpart and read the requirements in detail to make a final determination. Note: the general provisions found in 40 CFR pt. 60, subp. A, apply to **all** facilities subject to any other NSPS requirements.

5) After you review the list of sources subject to NSPS and read any applicable 40 CFR pt. 60 subparts, check one of the following boxes:

☐ No, my facility is not subject to a NSPS. Return to Form CAP-GI-09, and answer "No" to question 2b.

☒ Yes, my facility is subject to a NSPS. (Note that your facility can only be subject to a NSPS listed in boldface to be eligible for the capped permit.)

6) The following page lists information needed to identify your facility's emission sources subject to NSPS. Complete the group of questions for all emission equipment subject to NSPS, attaching additional pages if necessary.

7) For each applicable subpart (including Subpart A), include a copy of the applicable subpart with the applicable parts highlighted. For some standards, the Minnesota Pollution Control Agency (MPCA) has prepared a checklist version of the standard – for those subparts you may complete the checklist/form rather than highlighting a copy of the standard. See Air permit compliance forms | Minnesota Pollution Control Agency (state.mn.us) for the subparts for which a checklist form has been prepared.

8) Return to Form CAP-GI-09D, and answer "Yes" to question 2b.

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Describe Emission Equipment: Emergency SI RICE 67 hp (50 KW)

Emission Unit Number (EQUI xxx): Insignificant

Stack/Vent Number (STRU xxx):

Date of Equipment Manufacture: 5/1/2012 (mm/dd/yyyy)

Date of Equipment Installation: (mm/dd/yyyy)

Date of Reconstruction (if applicable): (mm/dd/yyyy)

Date of Modification (if applicable): (mm/dd/yyyy)

Applicable 40 CFR pt. 60 subpart or Federal Register Reference: JJJJ

This source is also subject to the general provisions of 40 CFR pt. 60, subp. A.

Has this Unit Been Permitted Previously?

☒ No

☐ Yes, list Air Emission Permit Number:

Have you attached a photocopied, highlighted version of the 40 CFR pt. 60 subpart?

☐ Yes

☒ No

Describe Emission Equipment: Emergency SI RICE 200 hp (200 KW)

Emission Unit Number: Insignificant

Stack/Vent Number:

Date of Equipment Manufacture: 9/24/2014 (mm/dd/yyyy)

Date of Equipment Installation: (mm/dd/yyyy)

Date of Reconstruction (if applicable): (mm/dd/yyyy)

Date of Modification (if applicable): (mm/dd/yyyy)

Applicable 40 CFR pt. 60 subpart or Federal Register Reference: JJJJ

This source is also subject to the general provisions of 40 CFR pt. 60, subp. A.

Has this Unit Been Permitted Previously?

☒ No

☐ Yes, list Air Emission Permit Number:

Have you attached a photocopied, highlighted version of the 40 CFR pt. 60 subpart?

☐ Yes

☒ No

Describe Emission Equipment: Biomass Boiler

Emission Unit Number: EU46

Stack/Vent Number: SV46

Date of Equipment Manufacture: (mm/dd/yyyy)

Date of Equipment Installation: (mm/dd/yyyy)

Date of Reconstruction (if applicable): (mm/dd/yyyy)

Date of Modification (if applicable): (mm/dd/yyyy)

Applicable 40 CFR pt. 60 subpart or Federal Register Reference Dc

This source is also subject to the general provisions of 40 CFR pt. 60, subp. A.

Has this Unit Been Permitted Previously?

☐ No

☒ Yes, list Air Emission Permit Number:

Have you attached a photocopied, highlighted version of the 40 CFR pt. 60 subpart?

☐ Yes

☒ No

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Table D: Standards of Performance for New Stationary Sources

If a facility is subject to an NSPS listed in **boldface**, it is still eligible for a capped permit. **
(If a facility is subject to an NSPS other than those listed in boldface, it is not eligible for a capped permit.)

Performance standards promulgated as of September, 2022

Source categories subject to federal performance standards	40 CFR 60 Subpart	Effective date constructed, modified or reconstructed
Fossil-Fuel Fired Steam Generators >250 MMBtu	D	After: 08/17/1971
Electric Utility Steam Generators >250 MMBtu	Da	After: 09/18/1978
Industrial-Commercial-Institutional Steam Generators >100 MMBtu	Db	After: 06/19/1984
Small Industrial-Commercial-Institutional Steam Generators >10 MMBtu but <100 MMBtu*	**Dc**	**After: 06/09/1989**
Coal-Fired Electric Steam Generating Units (Hg Budget units)	HHHH	Varies (applies to any unit serving a generator ≥ 25 MWe on or after 11/15/1990)
Solid Waste Incinerators	E, CCCC, DDDD, EEEE, FFFF	Varies
Sewage Sludge Incinerators	LLLL, MMMM	After: 10/14/2010
Hospital/Medical/Infectious Waste Incinerators	Ec, Ce	Initial Construction
Municipal Waste Combustors	Cb, Ea, Eb, AAAA, BBBB	Varies
Portland Cement Plants	F	After: 08/17/1971
Nitric Acid Plants	G, Ga	After: 08/17/1971
Sulfuric Acid Plants	H, Cd	Initial Construction
Asphalt Concrete Plants	**I**	**After: 06/11/1973**
Petroleum Refineries	J, Ja	After: 06/11/1973
Storage Vessels for Petroleum Liquids	**K,Ka**	**After: 06/11/1973**
Volatile Organic Liquid Storage Vessels (Including Petroleum Liquids)*	**Kb**	**After: 07/23/1984**
Secondary Lead Smelters	L	After: 06/11/1973
Secondary Brass and Bronze Production Plants	M	After: 06/11/1973
Oxygen Process Furnaces	N	After: 06/11/1973
Oxygen Process Steelmaking Facilities	Na	After: 01/20/1983
Sewage Treatment Plants	O	After: 06/11/1973
Primary Copper Smelters	P	After: 10/16/1974
Primary Zinc Smelters	Q	After: 10/16/1974
Primary Lead Smelters	R	After: 10/16/1974
Primary Aluminum Reduction Plants	S	After: 10/23/1974
Phosphate Fertilizer Industry	T,U,V,W,X	After: 10/22/1974
Coal Preparation Plants	Y	After: 10/24/1974
Ferroalloy Production Facilities	Z	After: 10/24/1974
Steel Plants	AA, AAa	After: 10/21/1974
Kraft Pulp Mills	BB	After: 09/24/1976
Glass Manufacturing Plants	CC	After: 06/15/1979
Grain Elevators	**DD**	**After: 08/03/1978**
Surface Coating of Metal Furniture	**EE**	**After: 11/28/1980**
Stationary Gas Turbines	**GG**	**After: 10/03/1977**
Stationary Gas Turbines 10 MMBtu or larger	KKKK	After: 02/18/2005
Lime Manufacturing Plants	HH	After: 05/03/1977
Lead-Acid Battery Manufacturing Plants	KK	After: 01/14/1980
Metallic Mineral Processing Plants	LL	After: 08/24/1982
Automobile and Light-Duty Truck Surface Coating Operations	MM	After: 10/05/1979

Performance standards promulgated as of September, 2022

Source categories subject to federal performance standards	40 CFR 60 Subpart	Effective date constructed, modified or reconstructed
Phosphate Rock Plants	NN	After: 09/21/1979
Ammonium Sulfate Manufacture	PP	After: 02/04/1980
Graphic Arts Industry: Publication Rotogravure Printing	QQ	After: 08/28/1980
Pressure Sensitive Tape and Label Surface Coating Operations	RR	After: 12/30/1980
Industrial Surface Coating: Large Appliances	**SS**	**After: 12/24/1980**
Metal Coil Surface Coating	TT	After: 01/05/1981
Asphalt Processing and Asphalt Roofing Manufacture	UU	After: 11/18/1980
Equipment Leaks of Volatile Organic Compounds (VOCs) in the Synthetic Organic Chemicals Manufacturing Industry	VV, VVa	After: 01/05/1981
Beverage Can Surface Coating Industry	WW	After: 11/26/1980
Bulk Gasoline Terminals	**XX**	**After: 12/17/1980**
New Residential Wood Heaters *	AAA	After: 07/01/1988
Rubber Tire Manufacturing Industry	BBB	After: 01/20/1983
VOC Emissions from the Polymer Manufacturing Industry	DDD	After: 09/30/1987
Flexible Vinyl and Urethane Coating and Printing	FFF	After: 01/18/1983
Equipment Leaks of VOC in Petroleum Refineries	GGG, GGGa	After: 01/04/1983
Synthetic Fiber Production Facilities	HHH	After: 11/23/1982
VOC Emissions from the Synthetic Organic Chemical Manufacturing Industry Air Oxidation Unit Processes	III	After: 10/21/1983
Petroleum Dry Cleaners*	**JJJ**	**After: 12/14/1982**
Onshore Natural Gas Processing: VOC Equipment Leaks and SO_2 Emissions	KKK, LLL	After: 01/20/1984
VOC Emissions from Synthetic Organic Chemical Manufacturing Industry Distillation Operations	NNN	After: 12/30/1983
Nonmetallic Mineral Processing Plants (Including Sand and Gravel Processing)	OOO*	After: 08/31/1983
Wool Fiberglass Insulation Manufacturing Plants	PPP	After: 02/07/1984
VOC Emissions from Petroleum Refinery Wastewater Systems	QQQ	After: 05/04/1987
VOC Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI)Reactor Processes	RRR	After: 06/29/1990
Magnetic Tape Coating Facilities	SSS	After: 01/22/1986
Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines	**TTT**	**After: 01/08/1986**
Calciners and Dryers in Mineral Industries	UUU	After: 04/23/1986
Polymeric Coating of Supporting Substrates Facilities	VVV	After: 04/30/1987
Municipal Solid Waste Landfills	WWW, Cc, Cf	Initial Construction
Stationary Compression Ignition Internal Combustion Engines*	**IIII**	**After: 07/11/2005**
Stationary Spark Ignition Internal Combustion Engines*	**JJJJ**	**After: 06/12/2006**
Crude Oil and Natural Gas Production, Transmission, and Distribution	OOOO	After: 08/23/2011
New Residential Hydronic Heaters and Forced-Air Furnaces	QQQQ	After: 5/15/2015
Greenhouse Gas Emissions from Electric Generating Units	TTTT, UUUUa	After: 6/18/2014

* According to Minn. R. 7007.0300, subp. 1(B), "notwithstanding parts 7007.0200 and 7007.0250, any stationary source that would be covered by a permit solely because it is subject to one or more of the following new source performance standards " are not required to obtain a permit under parts 7007.0100 to 7007.1850.

** Minn. R. 7007.114 0, subp. 2 (E) lists the 13 NSPS that a facility can be subject to and still be eligible for a capped permit.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

PUBLIC

Facility Information–Minnesota State Air Quality (AQ) Rules

AQ Facility ID number: 03000018 Agency Interest ID number: 2650

Facility name: General Mills Operations, Inc. LLC

Some businesses and activities in Minnesota are subject to the following rules. Read each question to determine if the rule applies to you.

1) Minnesota Standards of Performance for Stationary Sources (Minn. R. ch. 7011)

1a) Does your facility have any equipment that meets the following definition?

"A furnace, boiler or other combustion equipment in Minnesota which burns fossil fuel for the purpose of producing steam, hot water, hot air, or other hot liquid, gas, or solid, where the smoke doesn't have direct contact with the heated medium for which another standard of performance has not been promulgated."

☐ No, my facility **is not** subject to Minn. R. 7011.0500-7011.0551. Go to question 1b.

☒ Yes, my facility **is** subject to Minn. R. 7011.0500-7011.0551. Standards of Performance for Indirect Heating Fossil-Fuel Burning Equipment. (Read the rule to determine the specific requirements that apply to your facility.)

1b) Is your facility type or process equipment found in Table H on page 3? This table contains only state-specific requirements; it does not contain state rules that incorporate federal rules by reference.

☒ No, none of the Minnesota Rules listed in Table H apply to my facility. Go to question 2.

☐ Yes, my facility or process equipment may be subject to the rule associated with it in Table H. Read the associated rule to see if it applies.

1c) After reading through Table H and any rule that may apply to your facility or equipment, list the ones that do apply to your air emission source(s) below. Again, Table H contains only state-specific requirements; it does not contain state rules that incorporate federal rules by reference. You do not need to list the state rule that incorporates a federal rule by reference. You do not need to list the Standards of Performance for Indirect Heating Fossil-Fuel Burning Equipment again, if it applies (see 1a, above).

Minnesota Rule Part that Applies	What the Rule Part Applies to (Whole facility or Specific Piece of Equipment)	Emission Unit ID Number

3) Standards of Performance for Industrial Process Equipment (Minn. R. 7011.0700 - 7011.0735)

3a) Do you have any industrial process equipment on-site that is not regulated by another Standard of Performance (NSPS or MN Rules Standard of Performance)?

☒ No, my equipment is not subject to this rule. Go to question **4.**

☐ Yes. Go to 3b.

3b) **Opacity Standard**

(Note: Opacity is a measure of visible emissions or how much of the view is obscured by stack emissions. The emissions causing opacity are often smoke or dust.)

For industrial process equipment which was *in operation before July 9, 1969*, the equipment shall not exhibit greater than 20 percent opacity, except that a maximum of 60 percent opacity shall be permissible for four minutes in any 60 minute period and a maximum of 40 percent opacity shall be permissible for four additional minutes in any 60 minute period.

For industrial process equipment which was *not in operation before July 9, 1969*, the equipment shall not exhibit greater than 20 percent opacity.

3c) Does the industrial process equipment have particulate control equipment with a collection efficiency of at least 99 percent if it was in operation before July 9, 1969, or 99.7 percent if it was not in operation before July 9, 1969?

☐ No. Go to question 3d.

☐ Yes. My equipment is not subject to the remaining requirements of this rule. Go to question 4.

3d) Is the industrial process equipment located outside of the seven county Minneapolis-St. Paul metropolitan region **and** outside of the city of Duluth **and** at least 1/4 mile from any residence or public roadway, **and** does the industrial process equipment have particulate control equipment with a collection efficiency of at least 85 percent **and** is the operation of the entire facility in compliance with all ambient air quality standards?

☐ No, my equipment is subject to the remaining requirements. You can determine applicable limits using **Table I.**

☐ Yes, my equipment is not subject to the remaining requirements of this rule. Go to question 4.

4) Return to Form CAP-GI-09, question 6b.

Table H: Minnesota Standards of Performance for Stationary Sources *

Facility or Equipment Type	Associated Minnesota Rule
Direct Heating Equipment	7011.0600 through 7011.0625
Concrete Manufacturing Plants	7011.0850 through 7011.0860
Stage One Vapor Recovery	7011.0865 through 7011.0870
Hot Mix Asphalt Plants	7011.0900 through 7011 0925
Bulk Agricultural Commodity Facilities (Grain Elevators)	7011.1000 through 7011.1015
Coal Handling Facilities	7011.1100 through 7011.1140
Incinerators (waste combustors)	7011.1201 through 7011.1285
Sewage Sludge Incinerators	7011.1300 through 7011.1325
Petroleum Refineries	7011.1400 through 7011.1430
Liquid Petroleum and Volatile Organic Compounds (VOCs) Storage Vessels	7011.1500 through 7011.1515
Sulfuric Acid Plants	7011.1600 through 7011.1630
Nitric Acid Plants	7011.1700 through 7011.1725
Brass and Bronze Plants	7011.1900 through 7011.1915
Iron and Steel Plants	7011.2000 through 7011.2015
Inorganic Fibrous Materials	7011.2100 through 7011.2105
Stationary Internal Combustion Engine (Generators)	7011.2300
Municipal Solid Waste Landfills	7011.3500 through 7011.3510
Asbestos	7011.9921 through 701109927

* This table does **not** include Minnesota Rules which incorporate federal New Source Performance Standards (NSPS) and/or National Emission standards for Hazardous Air Pollutant Sources (NESHAPS) by reference.

RK & Associates, Inc.

PUBLIC

Capped Permit Option 2
Permit Application

General Mills Operations, Inc.
25 44th Ave. NE
Fridley, Minnesota, 55421

June 10, 2024

R15406

Prepared for:
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TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 PROCESS DESCRIPTION 2
2.1 Emission Sources 2
2.2 Combustion Sources 5

3.0 AMBIENT AIR QUALITY ASSESSMENT 7

4.0 FACILITY WIDE EMISSION LIMITS 10

TABLES

Table 1 Emissions Units and with Potential PM Emissions 3
Table 2 Summary of Capped Process VOC and HAPs 5
Table 3a Capped Boiler Natural Gas Combustion Emissions Estimate 5
Table 3b Capped Oat Hull Biomass Boiler Emissions Estimate 6
Table 4 Summary of Screen 3 Model settings for Ambient Environment 7
Table 5 Summary of Screen 3 Modeled Stack Group Information 8
Table 6 Summary of Screen 3 Model results for PM10 concentration in a 24-hr period 9
Table 7 Facility Wide Emission Limits 10

FIGURES

Figure 1 Site Location Map 13
Figure 2 Facility Plot Diagram 14
Figure 3 Exhaust Locations 15
Figure 4 Biomass Boiler NESHAPS Applicability Letter 16
Figure 5 Biomass Boiler Nameplate 17

APPENDIX A – Application Forms

SCP01 Submittal Cover Page .....
CAP-00 Capped Permit Qualifications Review List .....
CAP-IA Insignificant Activities .....
CAP-GI-01 Facility Information .....
GI-02 Crunchy Bar Processing Line .....
CAP-GI-03 Stack and Vent Diagram .....
CAP-GI-04 Stack and Vent Information .....
CAP-GI-05 Pollution Control Device Information .....
GI-05B Emissions Unit Information .....
GI-05F Emission Source Association .....
CAP-GI-07 Capped Permit Facility Emissions Summary – (CD enclosed and/or emailed) .....
CAP-GI-09 Capped Permit Requirements Form .....
CAP-GI-09A Capped Permit Requirements: NESHAP for Source Categories (40 CFR pt.63) ...
CAP-GI-09D Requirements: NSPS (40 CFR pt.60) .....
CAP-GI-09I Requirements: State Rules .....

1.0 INTRODUCTION

The General Mills Operations, LLC plant, located at 25 44th Ave. NE, in Fridley, Minnesota, mainly produces oat flour for internal customers, and occasionally rolled oats. The facility currently operates under a Registration Part D permit, issued in 1996.

After performing updated emissions testing, the facility determined that a Capped Permit was required due to newly determined VOC emissions, which included HAPs. The facility is applying for a Capped Permit Option 2. The emissions of PM, PM10, VOCs, HAPs and a single HAP (methanol) are less than the Option 2 limits.

Figures showing the facility location, site map, and exhaust locations are attached. The Capped Permit application required forms are enclosed in the appendices.

General Mills has retained the services of RK & Associates, Inc. (RKA) to prepare this permit application.

2.0 PROCESS DESCRIPTION

General Mills operates various emissions units for the handling of oats by:

- Receiving and shipping
- Storage
- Conveying through the facility
- Separation for the removal of non-oats grains
- Dehulling
- Conditioning with steam
- Milling
- Flour conveying
- Flour storage
- Flour unloading for shipping
- Storage and shipping of waste oat hulls
- Rolling of oats

The emissions units associated with the above operations are listed in Section 2.1.

For generation of steam for facility processing and heating use, the facility also has 5 small natural gas-fired boilers and 1 biomass boiler which is fired with a portion of the waste oat hulls generated.

2.1 Emission Sources

The facility emissions units with PM emissions are listed in Table 1. Process emissions units with VOCs and HAPs emissions are listed in Table 2. Combustion emissions are discussed in section 2.2 and listed Tables 3a and 3b.

The emissions rates for the PM emissions units are based on maximum air flow rates from the baghouses and testing of the baghouse, or a similar baghouse as noted in the testing plan documentation for testing performed in 2022/2023. The rates are based on the emissions concentrations and adjusted for the air flow rates. The similar units are as follows:

Production Area	EU number	Description	Dust Collector Manufacturer	Other EUs with Similar DC Mfr, Area, and/or Process
Elevator*	EU4	Elevator Secondary System	MAC	EU3, EU5*, EU19*
Conditioning**	EU13	Conditioning Cooling Filter	General Mills (similar to Flex Kleen)	Inside exhausts: EU47, EU49
Milling**	EU 22	Flour Filter #4	Flex Kleen	EU11, EU15, Inside exhausts: EU48, EU50, EU51, EU52, EU53, EU54, EU55, EU56, EU57, EU58
Cleaning House	EU38	Cleaning House System C	Schenck Process (MAC)	EU36, EU37, EU39, EU35

The emission rates for fugitive sources are based on AP-42 emissions factor for grain unloading.

The emissions rates for the VOC and HAPs emitting process units are based on the testing performed in 2023 on one of the six units and applied to the other 5 similar units, as noted in the test plan documentation, and on the one filter with these emissions. The emission factors are then increased with a safety factor to the maximum limit for a Capped Option 2 permit.

The emissions factors for the natural gas boilers are based on AP-42 emissions factors. The emissions factors for the biomass boiler are based on the maximum amount as allowed by Minnesota administrative rules. The results of testing in 2024 will be used to show compliance with these rules and for emissions inventory calculations.

The forms with the emission units information, emission source association, process flow diagrams, stack/vent information, pollution control information, facility emissions summary, and other required forms are attached in the appendices. Tables for potential emissions from Process PM Sources (Table 1), Process HAPs and VOCs sources (Table 2), Boilers (Tables 3a and 3b), and Facility-Wide (Table 7) are shown below. The GI-07 spreadsheet, which has these tables, will be emailed to MPCA.

Insignificant sources are listed in form CAP-IA which is attached in the appendices.

Table 1 – Emissions Units and with Potential PM Emissions

EU ID No.	Equipment Description	Material Processed	Type of Source	Control No.	Type of Control Device	Stack / Vent No.	Exhaust Location	Potential Emissions						
								Annual Hours of Operation	PM		PM_{10}		$PM_{2.5}$	
									lb / hr	tpy	lb / hr	tpy	lb / hr	tpy
EU3	Elevator Primary System	By-Product	Process	CE3	Baghouse	SV3	Outside	8,760	1.31	5.74	1.31	5.74	1.31	5.74
EU4	Elevator Secondary System	By-Product	Process	CE4	Baghouse	SV4	Outside	8,760	0.93	4.05	0.93	4.05	0.93	4.05
EU5	Elevator RJ System	By-Product	Process	CE5	Baghouse	SV5	Outside	8,760	0.26	1.13	0.26	1.13	0.26	1.13
EU11	Rolled Oat Filter	By-Product	Process	CE11	Baghouse	SV11	Outside	8,760	0.10	0.45	0.10	0.45	0.10	0.45
EU13	Conditioners/Dryers	By-Product	Process	CE13	Baghouse	SV13-North, SV13-South	Outside	8,760	0.74	3.24	0.74	3.24	0.74	3.24
EU15	Dryer/Cooler (OTW Filter)	By-Product	Process	CE15	Baghouse	SV15	Outside	8,760	0.07	0.29	0.07	0.29	0.07	0.29
EU19	New Truck Receiving	Product	Process	CE19	Baghouse	SV19	Outside	8,760	0.26	1.13	0.26	1.13	0.26	1.13
EU22	Flour filter #4	Product	Process	CE22	Baghouse	SV22	Outside	8,760	0.10	0.45	0.10	0.45	0.10	0.45
EU31	Track #2 Loadout	Product	Fugitive	-			Outside	8,760						
EU32	Track #3 Loadout	Product	Fugitive	-			Outside	8,760						
EU33	New Truck Dump Loadout	Product	Fugitive	-			Outside	8,760						

EU34	Hulls Loadout Building	By-Product	Fugitive	-			Outside	8,760						
EU35	Purity Loadout Building Filter	Product	Process	CE35	Baghouse	SV35	Outside	8,760	0.13	0.56	0.13	0.56	0.13	0.56
EU36	CH Filter #1	By-Product	Process	CE36	Baghouse	SV36	Outside	8,760	0.30	1.31	0.30	1.31	0.30	1.31
EU37	CH Filter #2	By-Product	Process	CE37	Baghouse	SV37	Outside	8,760	0.19	0.83	0.19	0.83	0.19	0.83
EU38	CH Filter #3	By-Product	Process	CE38	Baghouse	SV38	Outside	8,760	0.27	1.16	0.27	1.16	0.27	1.16
EU39	CH Filter #4	By-Product	Process	CE39	Baghouse	SV39	Outside	8,760	0.19	0.83	0.19	0.83	0.19	0.83
EU41	Boiler #1	Natural gas	Steam gen.	-	-	SV41	Outside	8,760	See Table 3a and 3b Combustion Sources Data					
EU42	Boiler #2	Natural gas	Steam gen.	-	-	SV42	Outside	8,760						
EU43	Boiler #3	Natural gas	Steam gen.	-	-	SV43	Outside	8,760						
EU44	Boiler #4	Natural gas	Steam gen.	-	-	SV44	Outside	8,760						
EU45	Boiler #5	Natural gas	Steam gen.	-	-	SV45	Outside	8,760						
EU46	Biomass Boiler	Biomass (oat hulls)	Steam gen.	CE46		SV46	Outside	8,760						
EU47	Conditioning Filter (Conditioned oats discharge)	By-Product	Process	CE47	Baghouse	SV47	Inside	8,760	0.24	1.05	0.24	1.05	0.24	1.05
EU48	Flour filter #2 filter	By-Product	Process	CE48	Baghouse	SV48	Inside	8,760	0.11	0.50	0.11	0.50	0.11	0.50
EU49	C.G bins filter	By-Product	Process	CE49	Baghouse	SV49	Inside	8,760	0.17	0.73	0.17	0.73	0.17	0.73
EU50	Dehull filter #1	By-Product	Process	CE50	Baghouse	SV50	Inside	8,760	0.08	0.33	0.08	0.33	0.08	0.33
EU51	Dehull filter #2	By-Product	Process	CE51	Baghouse	SV51	Inside	8,760	0.04	0.19	0.04	0.19	0.04	0.19
EU52	Dehull filter #3 (and Conditioners Input Cyclones)	By-Product	Process	CE52	Baghouse	SV52	Inside	8,760	0.08	0.37	0.08	0.37	0.08	0.37
EU53	Dehull filter #4	By-Product	Process	CE53	Baghouse	SV53	Inside	8,760	0.05	0.20	0.05	0.20	0.05	0.20
EU54	Dehull filter #5	By-Product	Process	CE54	Baghouse	SV54	Inside	8,760	0.08	0.37	0.08	0.37	0.08	0.37
EU55	Dehull filter #6	By-Product	Process	CE55	Baghouse	SV55	Inside	8,760	0.08	0.37	0.08	0.37	0.08	0.37
EU56	Clean Oats Conveying filter	By-Product	Process	CE56	Baghouse	SV56	Inside	8,760	0.08	0.37	0.08	0.37	0.08	0.37
EU57	Hulls & Feed filter	By-Product	Process	CE57	Baghouse	SV57	Inside	8,760	0.08	0.37	0.08	0.37	0.08	0.37
EU58	Flour filter #3 filter	Product	Process	CE58	Baghouse	SV58	Inside	8,760	0.08	0.37	0.08	0.37	0.08	0.37
EU59	Conditioner #1	Product	Process	NA	cyclone	SV59	Outside	8,760	0.10	0.45	0.05	0.23	0.05	0.23
EU60	Conditioner #2	Product	Process	NA	cyclone	SV60	Outside	8,760	0.10	0.45	0.05	0.23	0.05	0.23
EU61	Conditioner #3	Product	Process	NA	cyclone	SV61	Outside	8,760	0.10	0.45	0.05	0.23	0.05	0.23
EU62	Conditioner #4	Product	Process	NA	cyclone	SV62	Outside	8,760	0.10	0.45	0.05	0.23	0.05	0.23
EU63	Conditioner #5	Product	Process	NA	cyclone	SV63	Outside	8,760	0.10	0.45	0.05	0.23	0.05	0.23
EU64	Conditioner #6	Product	Process	NA	cyclone	SV64	Outside	8,760	0.10	0.45	0.05	0.23	0.05	0.23

Table 2. Summary of Capped Process VOC and HAPs

EU No.	Process THC/HAP Source	Stack No.	Pollutants / CAS # / Potential Emissions							
			Methanol 67-56-1		Acetaldehyde 75-07-0		Total HAPs NA		THC (VOCs) as Propane NA	
			lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
EU59	Conditioner 1	SV59	0.2397	1.0500	0.0283	0.1239	0.2680	1.1739	0.1660	0.7269
EU59	Conditioner 2	SV60	0.2397	1.0500	0.0283	0.1239	0.2680	1.1739	0.1660	0.7269
EU61	Conditioner 3	SV61	0.2397	1.0500	0.0283	0.1239	0.2680	1.1739	0.1660	0.7269
EU62	Conditioner 4	SV62	0.2397	1.0500	0.0283	0.1239	0.2680	1.1739	0.1660	0.7269
EU63	Conditioner 5	SV63	0.2397	1.0500	0.0283	0.1239	0.2680	1.1739	0.1660	0.7269
EU64	Conditioner 6	SV64	0.2397	1.0500	0.0283	0.1239	0.2680	1.1739	0.1660	0.7269
EU13	Conditioner Filter (N + S Vents)	SV13-North, SV13-South	0.3881	1.6998	0.7417	3.2488	1.1298	4.9486	0.3101	1.3580
	Total		**1.8265**	**8.0000**	**0.9114**	**3.9919**	**2.7379**	**11.9919**	**1.3059**	**5.7197**

Annual Operating Hours 8,760

THC/HAP Safety Factor 22.9%

Estimated emissions are based on 2023 emission test data from Condition No. 4 and the Conditioner Filter.

A safety factor of 22.9% is incorporated to limit the maximum single HAP annual emissions to 8.0 tpy.

Emissions measured from Conditioner No. 4 were applied to Conditioners 1, 2, 3, 5, and 6.

2.2 Combustion Sources

The facility has 5 small natural gas-fired boilers and 1 biomass boiler fired by waste oat hulls. The biomass boiler is subject to 40 CFR 60 Subpart Dc but not subject to 40 CFR 63 Subpart JJJJJJ as the boiler construction was started in December 2009. The letter and boiler nameplate are enclosed in the Figures.

The facility has 2 emergency SI RICE engines: 50 kw (67 hp) and 150 kw (200 hp). The engines were constructed according to 40 CFR 60 Subpart JJJJ and based on 40 CFR 63 Subpart ZZZZ in 63.6590 (c)(1), no further provisions of Subpart ZZZZ apply.

The NESHAP and NSPS required forms are in the appendices.

Table 3a. Capped Boiler Natural Gas Combustion Emissions Estimate

EU No.	Combustion Device Natural Gas	Stack No.	Maximum Natural Gas Firing Rate		
			MMcf/hr	MMcf/hr	MMcf/yr
EU41	Boiler #1 Kewanee	SV41	10,200	0.010200	89.352

EU42	Boiler #2 Kewanee	SV42	10,200	0.010200	89.352
EU43	Boiler #3 Kewanee	SV43	5,200	0.005200	45.552
EU44	Boiler #4 Burnham	SV44	10,460	0.010460	91.6296
EU45	Boiler #5 Burnham	SV45	10,460	0.010460	91.6296
	Total Maximum Firing Rate		**46,520**	**0.046520**	**407.515200**

Criteria Pollutants	Emission Factor [a] lb/MMscf	NG HHV = 1,029-Btu/scf Max Op Hrs 8,760 hr/yr lb/hr	tpy
Nitrogen Oxide (NOx)	100	4.65	20.38
Carbon Monoxide (CO)	84	3.91	17.12
Total Filterable PM	1.9	0.09	0.39
Total Condensable PM ($PM_{2.5}$)	5.7	0.27	1.16
Total Particulate Matter	7.6	0.35	1.55
Sulfur Dioxide (SO_2)	0.6	0.03	0.12
Volatile Organic Compounds (VOC)	5.5	0.26	1.12

Greenhouse Gas Emissions			
Carbon Dioxide (CO_2)	120,174	5,590.50	24,486.38
Methane (CH_4)	2.2649	0.1054	0.4615
Nitrous Oxide (N_2O)	0.2265	0.0105	0.0461
Carbon Dioxide Equivalents (CO_2e) [b]		**5,596.26**	**24,511.66**

Propane is the backup fuel in case of a shut-off or curtailment of natural gas in an emergency.

Table 3b. Capped Oat Hull Biomass Boiler Emissions Estimate

EU No.	Natural Gas Combustion Device	Stack No.	Maximum Oat Hull Firing Rate [a] Tph	MMBtu/hr	MMBtu/yr
EU46	Hurst Oat Hull Biomass Boiler (#6)	SV46	1.50	21.46	187,989.60

Criteria Pollutant	Emission Factor [b] lb/MMBtu	Oat Hull HHV = 7,147-Btu/lb Max Op Hrs 8,760 hr/yr lb/hr	tpy
Nitrogen Oxide (NOx)	0.403	8.65	37.91
Carbon Monoxide (CO)	0.629	13.49	59.08
Total Filterable PM [c]	0.400	8.58	37.60
Total Condensable PM (PM_{10}) [c]	0.400	8.58	37.60
Total Particulate Matter [c]	0.400	8.58	37.60
Sulfur Dioxide (SO_2)	0.149	3.19	13.98
Volatile Organic Compounds (VOC)	0.002	0.04	0.19

a. No auxiliary fuel is fired during normal operation of the boiler.
b. Maximum emission factor from either the average 2011 test result or the average 2023 test result with a 99.99% confidence interval.
c. Measured PM from the 2023 test exceeded the regulatory limit of 0.400 lb/MMBtu. Boiler was repaired and retested to demonstrate compliance. For the purposes of this permit application, the emission factor used is the regulatory limit. The results will be submitted when the report is complete

3.0 Ambient Air Quality Assessment

The following information is provided by Screen 3 Model. SCREEN3 model is a screening tool developed by the United States Environmental Protection Agency (EPA) used to evaluate air quality impacts of various sources in a straightforward and efficient manner. It is designed for users who need to conduct simple screening-level assessments for air pollutant emissions. SCREEN3 can estimate the concentration of pollutants at various distances from the source under different meteorological conditions.

The model is capable of handling single sources, which can be point, area, or volume sources, and it provides maximum ground-level concentrations as well as concentrations at specific receptor locations. SCREEN3 is part of a broader toolkit that environmental professionals use to ensure compliance with regulatory standards and to protect public health by managing air quality.

Model Input for modeling stacks ambient environment.

The first step is to input the surrounding environment information (temperature, stability class, topography summary) for the stacks in the facility. Table 1 presents the summary of basic surrounding settings in SCREEN3 model as the prerequisites of the stack emission modeling.

Table 4: Summary of Screen 3 model settings for Ambient Environment.
General Mills Operations, LLC - Fridley, Minnesota

Terrain [a]	Surroundings [a]	Stability Class [b]	Ambient Temperature(F) [b]	Anemometer Height (ft) [b]	Mixing Height Category [b]	Building Dimensions [c]		
						Length (ft)	Width (ft)	Height (ft)
Simple Elevation	Urban	All Class	68	32	Regulatory	377	246	66

a. Surrounding topography setting selected based on Satellite map.
b. Screen 3 Model Default settings for most universal conditions
c. Average Facility Building Dimensions

Modeled Stack Information

Second Step is to input the Stack information, modeled stacks are divided into 15 groups based on the stack height and stack flow rate, table 5 presents the required information for the input of SCREEN 3 model.

Table 5: Summary of Screen 3 Modeled Stack Group Information
General Mills Operations, LLC – Fridley, Minnesota

Stack group # [a]	Stack Information	Emission Equipment Description	Emission Equipment ID	Emission Source Type	Stack Height (ft)	Stack flow rate (acfm)	Stack Diameter (ft)	Exhaust Rate (g/s) [b]	Stack Distance to Property Line (ft) [d]
1	SV41,SV42,SV43 SV43,SV45	Kewanee Boiler #1-#5	EU41,EU42,EU43 EU43,EU45	Point	20	3200	1.67	1	374
2	SV46	Hurst Oat Hull	EU46	Point	75	12879	2.5	1	374
3	SV35	Purity Loadout Building Filter	EU35	Point	25	15000	3	1	374
4	SV19	New Truck Receiving	EU19	Point	25	10000	1.73	1	374
5	SV40	Biomass Boiler Hulls Bin Filter	EU40	Point	85	2600	0.33	1	374
6	SV5	Elevator RJ System	EU5	Point	30	10000	1.71	1	374
7	SV11,SV22	Oat Mill Filter	EU11,EU12	Point	45	12000	1.62	1	374
8	SV47 - SV58	Flour & Dehull Filter inside the Building	EU47 - EU58	Volume [c]	32.5	N/A [c]	N/A [c]	1	374
9	SV59 - SV64	Conditioner #1-#6 Cyclone	EU59 - EU64	Point	70	600	0.67	1	374
10	SV4	Elevator Secondary System	EU4	Point	75	36000	2.92	1	374
11	SV15	Dryer/Cooler (OTW Filter)	EU15	Point	45	7800	1.4	1	374
12	SV37, SV39	CH Filter #2, #4	EU37, EU39	Point	45	22000	3.83	1	374
13	SV38	CH Filter #3	EU38	Point	45	31000	4.92	1	374
14	SV36	CH Filter #1	EU36	Point	45	35000	4.92	1	374
15	SV13	Conditioners/Dryers	EU13	Point	20	28730	1.67	1	374

a. Stacks are grouped depends on similar stack height and stack flow rate.
b. All Stacks are expected to have 1 gram per second emission rate.
c. Stack Group #8 are the stacks in the building, the whole building is a volume source.
d. Distance of main building to the closest edge of the facility.

Modeling results

Results of modeling 24-hr PM10 dispersion factors are used to calculate the 24-hr maximum PM10 concentration at facility property line. Table 6 shows the summary of the modeled PM10 24 hours emission factor and concentration at the edge of facility. The calculated 24-hr PM10 concentration is compared to NAAQS standard concentration of PM10 in 24 hours. Fraction shows 0.968 demonstrates the modeled PM10 concentration does not exceed the limit.

Table 6: Summary of Screen 3 Model results for PM10 concentration in a 24-hr period
General Mills Operations, LLC – Fridley, Minnesota

Stack group#	Stack Information	Maximum PM10 Dispersion Factor at Property Line * (ug/g)	Stack PM10 Potential emissions	24-hr period Maximum PM10 concentration
		24-hour period	lb/hr	ug/m3
1	SV41,SV42,SV43 SV43,SV45	473.688	0.09	5.372
2	SV46	38.372	8.58	41.482
3	SV35	525.872	0.13	8.519
4	SV19	591.248	0.26	19.156
5	SV40	50.952	0.02	0.143
6	SV5	483.432	0.26	15.837
7	SV11,SV22	153.412	0.21	3.976
8	SV47 - SV58	174.464	0.60	13.099
9	SV59 - SV64	208.352	0.31	8.101
10	SV4	31.688	0.93	3.696
11	SV15	199.452	0.07	1.680
12	SV37, SV39	222.668	0.38	10.581
13	SV38	197.552	0.27	6.614
14	SV36	181.220	0.30	6.850
15	SV13	0.233	0.74	0.022
Total				**145.127**
NAAQS 24-hr concentration for PM10 (ug/m3)				**150**
Modeled results fraction of NAAQS				**0.968**

*. Maximum Dispersion Factor is calculated through model output Maximum concentration in 24 hours and Stack Emission Rate (1g/s)

4.0 Facility-Wide Emission Limits

The summary of potential process and combustion emissions from significant emission units are listed in Table 7. The summary of potential fugitive emissions, based on work limits, is greater than the limits but actual fugitive emissions on a historical basis do not cause an increase over the Capped Permit Threshold for PM. Actual emissions for the years 2022 and 2023 are shown in Table 8.

Based on the historical and future actual emissions, the facility is eligible for a Capped Option 2 Permit.

Emission calculations for each unit are included with the forms in the appendices.

Table 7. Facility-Wide Potential Emission Limits

(Table 4 from GI-07 Spreadsheet)

Pollutant	Process Emissions Sources tpy	Fuel Combustion: Natural Gas Boiler Emissions tpy	Fuel Combustion: Oat Hull Biomass Boiler tpy	Total Facility Emissions tpy	Capped Permit Thresholds: Option 1	Capped Permit Thresholds: Option 2
Total Filterable PM	135.85	1.55	37.60	175.00	90.0	75.0
PM_{10} (Filterable)	63.74	1.55	37.60	102.89		
$PM_{2.5}$ (Filterable & Condensable)	33.83	1.55	37.60	72.98		
Carbon Monoxide (CO)		17.12	59.08	76.20	90.0	85.0
Nitrogen Oxides (NOx)		20.38	37.91	58.29	90.0	85.0
Sulfur Dioxide (SO_2)		0.12	13.98	14.10	90.0	90.0
Volatile Organic Compounds (VOCs)		1.12		1.12		
Total Hydrocarbon (as C_3H_8)	5.72		0.19	5.91	90.0	85.0
HAPs						
Methanol	8.00			8.00	9.0	8.0
Acetaldehyde	3.99			3.99	9.0	8.0
Total HAPs	**11.99**	**0.38**		**12.38**	**20.0**	**20.0**

Total Facility Wide Emissions Qualify for an Option 2 Capped Permit

Table 7. Actual Emissions for 2022 and 2023

2022 Pollutant	Process Emissions Sources tpy	Fugitive Emissions Sources tpy	Fuel Combustion		Total Facility Emissions tpy	Capped Permit Thresholds	
			Natural Gas Boiler Emissions tpy	Oat Hull Biomass Boiler tpy		Option 1	Option 2
Total Filterable PM	24.56	6.953	0.012	13.05	37.62	90.0	75.0
Total PM10	11.06	2.345	0.012	13.05	24.11		
Carbon Monoxide (CO)	-	-	1.960	21.58	23.54		
Nitrogen Oxides (NOx)	-	-	2.334	9.61	11.94	90.0	85.0
Sulfur Dioxide (SO_2)	-	-	0.014	4.37	4.39	90.0	85.0
Volatile Organic Compounds (VOCs)	3.27	-	0.128	0.07	3.46	90.0	90.0
Total Hydrocarbon (as C_3H_8)	3.27	-			3.27		
HAPs						90.0	85.0
Methanol	4.59	-	-	-	4.59	9.0	8.0
Acetaldehyde	<2.28	-	-	-	<2.28	9.0	8.0
Total HAPs	**<6.87**	-	**0.04**	-	**<6.91**	9.0	8.0

2023 Pollutant	Process Emissions Sources tpy	Fugitive Emissions Sources tpy	Fuel Combustion		Total Facility Emissions tpy	Capped Permit Thresholds	
			Natural Gas Boiler Emissions tpy	Oat Hull Biomass Boiler tpy		Option 1	Option 2
Total Filterable PM	25.31		0.012	5.99	31.31	90.0	75.0
Total PM10	11.30		0.012	5.99	17.30		
Carbon Monoxide (CO)			1.900	9.91	11.81		
Nitrogen Oxides (NOx)			2.262	4.41	6.67	90.0	85.0
Sulfur Dioxide (SO_2)			0.014	2.01	2.02	90.0	85.0
Volatile Organic Compounds (VOCs)	2.99		0.124	0.03	3.14	90.0	90.0
Total Hydrocarbon (as C_3H_8)	2.99				2.99		
HAPs						90.0	85.0
Methanol	4.20				4.20	9.0	8.0
Acetaldehyde	<2.09				2.090	9.0	8.0
Total HAPs	**<6.29**					9.0	8.0

Capped Permit Option 2
Permit Application

General Mills Operations, LLC
25 44th Ave. NE
Fridley, Minnesota 55421

FIGURES

Figure 1 – Site Location Map

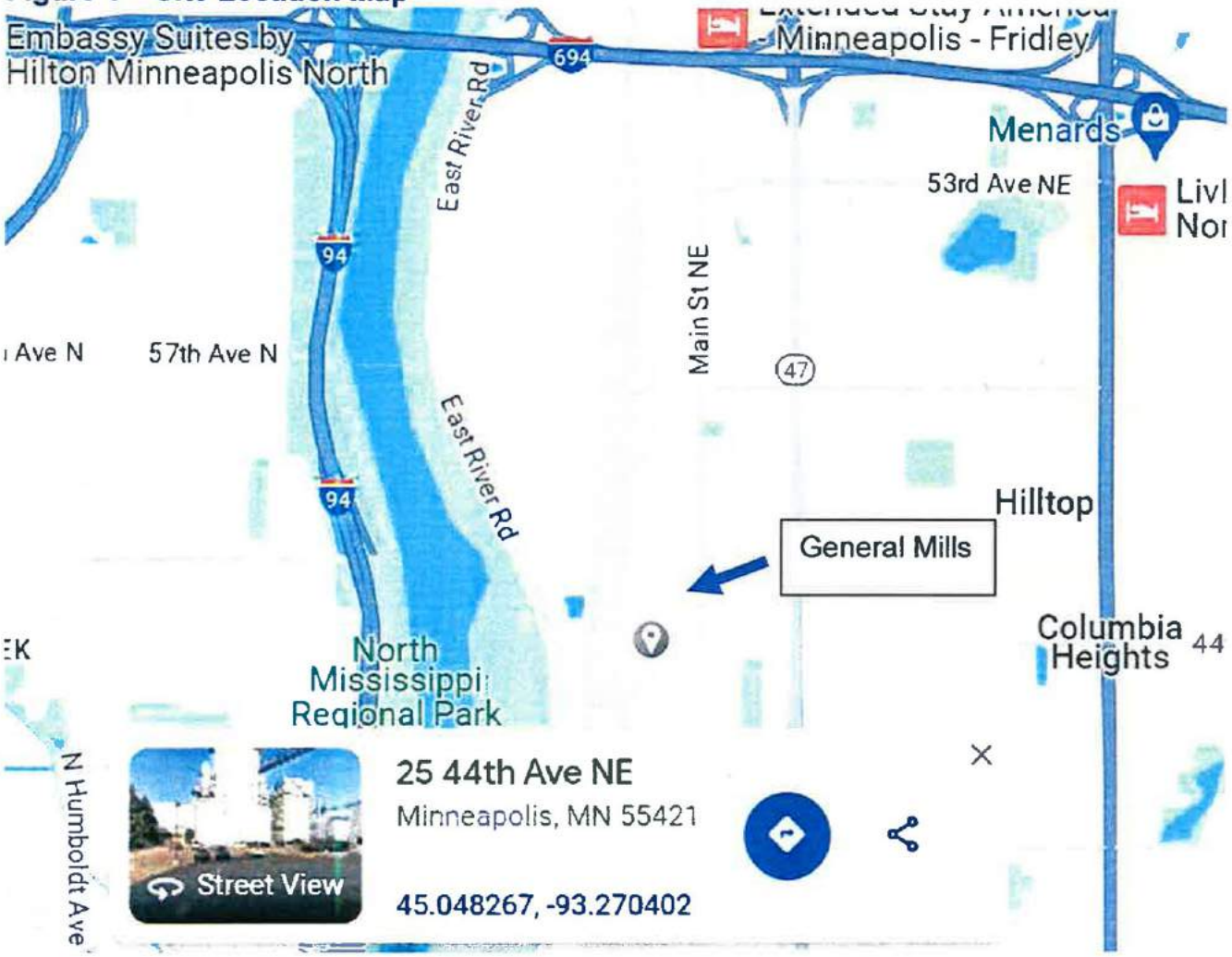

Figure 2 – Facility Plot Diagram

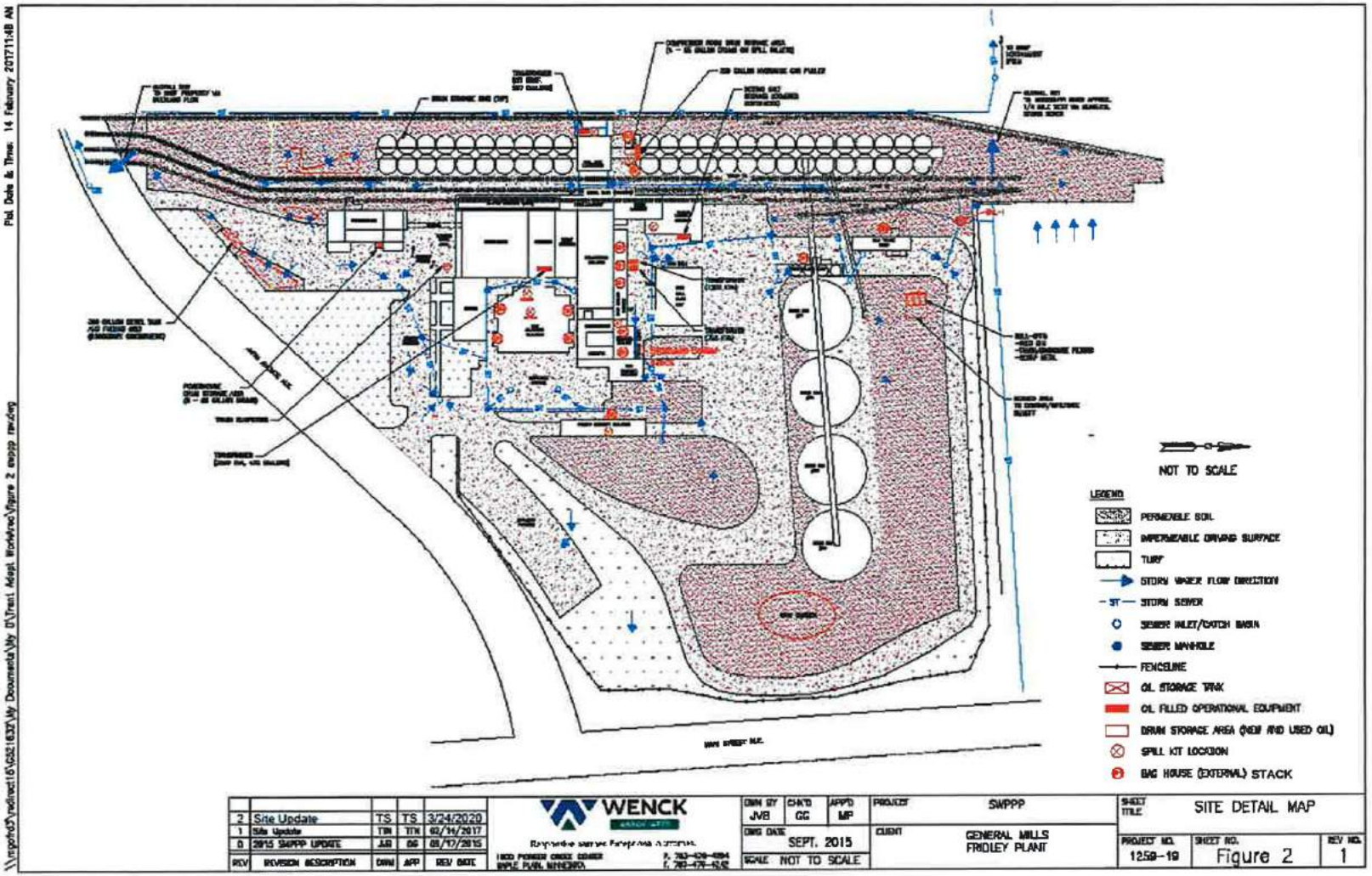

Figure 3 – Exhaust Locations

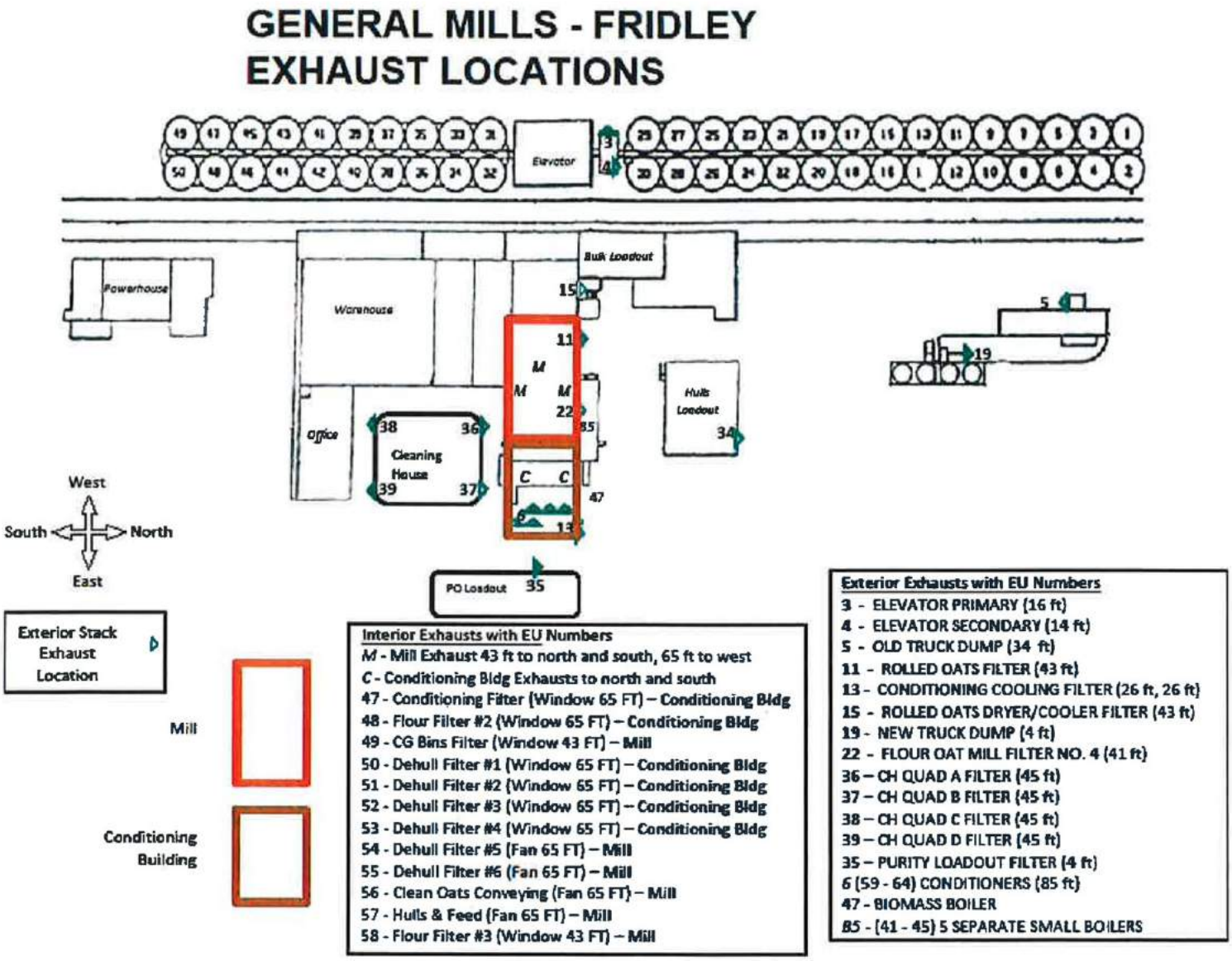

Figure 4 Biomass Boiler NESHAPS Applicability Letter

GENERAL MILLS

General Mills Fridley Mill
25 44th Avenue NE
Fridley, MN 55421

May 18, 2011

Minnesota Pollution Control Agency
Air Quality Division
520 Lafayette Road North
St. Paul, MN 55101-1805
Attn: Mr. Steve Pak

RE: 40 CFR Part 63 Subpart JJJJJ – NESHAP for HAPS for Industrial, Commercial and Institutional Boilers Area Sources
General Mills Fridley Mill - Option D Registration Permit No. 00900403-001

Dear Mr. Pak:

The purpose of this letter is to provide a notice to the Minnesota Pollution Control Agency that a biomass boiler system located at our Fridley Mill facility is subject to this NESHAP. The General Mills Fridley facility is currently covered under a Minnesota Option D registration permit No. 00900403-001. This notification of applicability of the NESHAP does not change our status under this registration permit.

This boiler is a Hurst S100 Fire Box Design Revolving Chain-Grate Stoker Bio-mass solid fuel boiler with an in-feed rating of up 21.46 MMBtu/hr. The fuel for this boiler is oat hulls that are generated as a byproduct of our milling operation.

General Mills has determined that this biomass boiler system is an existing affected system at an area source. This is based on the commencement date of construction of this boiler system which was December 2009 and full system operation began in early January 2011.

Based on the determination above we will follow the requirements detailed in 40 CFR 63 that include biennial burner tune-ups and completion of an energy audit. In addition we have verified that we are in compliance with established emission limits of 0.07 lb per MMBtu for particulate matter and have evaluated our fuel material for other HAPs.

Please let me know if you have any questions on this information. My direct number is 763-764-3822 or you can contact John Hellwig, our environmental engineer, at 763-764-3816 with specific questions.

Sincerely,

Bruce Hoshor
Plant Manager

cc: John Hellwig

Figure 5 Biomass Boiler Nameplate