



May 16, 2024

Fiscal Services – 6th Floor Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4194

Re: Application for a Capped Permit – County Market

To Whom It May Concern

County Market is submitting the enclosed capped permit application for their grocery store in St. Francis, Minnesota. County Market originally submitted an application for an Option C registration permit to the Minnesota Pollution Control Agency (MPCA) on December 27, 2023. That application was deemed incomplete during the completeness review. County Market is submitting the enclosed application for a capped permit to replace that previously submitted application. See the permit narrative in the attached permit application for more details.

The following components are included in this submittal:

- Application for a capped permit with a wet signature on SCP-01,
- Flash drive containing a PDF of the application for a capped permit, editable calculations, and the editable CAPS spreadsheet, and
- Check for the fee application of \$1,140.

If you have any questions regarding this application, please contact me at (763) 753-3334 or cmjeffkearney@aol.com or Sara Wandrei at (952) 832-2891 or swandrei@barr.com.

Sincerely,

Jeff Kearney Store Manager



Application for a Capped Permit

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Prepared for County Market, Saint Francis MN

Prepared by Barr Engineering Co.

May 2024



barr.com



Application for a Capped Permit



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1 Introduction and Background

County Market is located at 23122 St. Francis Blvd NW in St. Francis, Minnesota. The facility is a grocery store that operates a 1,641 kilowatt (kW) Reciprocating Internal Combustion Engine (RICE), a gasoline/diesel service station, and various small natural gas-fired heaters. The facility does not currently operate under an air permit.

County Market submitted an application for an Option C Registration permit for the facility to the Minnesota Pollution Control Agency (MPCA) on December 27, 2023. The MPCA deemed the application to be incomplete on January 17, 2024, and requested a revised application be submitted by February 23, 2024. However, the MPCA extended the submittal deadline to May 23, 2024, so that the facility could complete stack testing of the engine prior to submitting a revised application.

The following sections provide details of the air emission calculations and the regulatory applicability for the facility. In addition, County Market is submitting the following as attachments:

- MPCA Capped Permit Application Forms (Attachment A)
- Air Emission Calculations (Attachment B)
- Ambient Air Quality Assessment (Attachment C)
- Engine Information (Attachment D)

2 Air Emissions Calculations

Table 1 summarizes the estimated facility-wide emissions for criteria pollutants, the highest individual hazardous air pollutant (HAP), total HAPs, and greenhouse gases (GHG) as CO2e in tons per year (tpy). The table identifies the potential to emit (PTE), 2023 actual emissions, and maximum proposed allowable emissions for the permitted units at the facility. The table also includes the option 2 capped permit limits. See Attachment A for detailed emission calculations.

Pursuant to Minn. R. 7007.1140, subpart 1, A (2), Option 2 Capped Permit limits do not require insignificant activities under Minn. R. 7007.1300, subparts 2 or 3 to be included in the calculations. The facility operates various small natural gas-fired heaters, all of which have design heat inputs that are at or below 0.75 MMBtu/hr and which, therefore, qualify as insignificant activities under Minn. R. 7007.1300, subpart 3, F. These insignificant activities are listed on Form CAP-IA in Attachment A and are not included in the emission calculations in Table 1.

| Pollutant | Potential Emissions (tpy) | 2023 Actual Emissions (tpy) | Maximum Proposed Allowable Emissions (tpy) | Capped Permit Limit – Option 2 (tpy) |
|------------------------|------------------------------|-----------------------------------|--|--|
| PM | 6.75 | 0.05 | 0.39 | 75 |
| PM10 | 3.86 | 0.03 | 0.22 | 75 |
| SO ₂ | 0.10 | 0.0007 | 0.01 | 90 |
| NOx | 100.97 | 0.68 | 5.76 | 85 |
| CO | 57.33 | 0.39 | 3.27 | 85 |
| VOC | 484.37 | 16.81 | 37.55 | 85 |
| Lead | | | | 0.5 |
| Toluene ^[1] | 37.09 | 1.15 | 2.88 | 8 |
| Total HAP | 125.45 | 3.89 | 9.75 | 20 |
| CO ₂ e | 11,036 | 74.3 | 629.9 | 85,000 |

Table 1: Emission Calculations Summary

[1] Toluene is the highest individual HAPs emitted from the facility.

The facility operates a diesel-fired engine and a fuel service station for which the calculation methodologies are described in more detail below.

2.1 Engine Emissions Calculations

The emissions for the engine have been calculated by multiplying the maximum hourly heat input capacity by an emission factor. Emission factors for criteria pollutants and HAPs are from AP-42, section 1.4 "Natural Gas Combustion" (July 1998). Emission factors were converted from lb/MMSCF to lb/MMBtu using a natural gas heat content of 1,020 MMBtu/MMSCF as specified in footnote a to Table 1.4-1. Emission factors for GHG emissions are from 40 CFR Part 98, Subpart C.

The PTE emissions are based on 8,760 hours per year, while the maximum proposed allowable emissions are based on 500 hours per year. The engine has operated less than 100 hours per year every year since installation.

2.2 Fuel Service Station Emissions Calculations

The emissions for the fuel service station have been calculated by multiplying the gasoline and diesel throughput by the emission factors for evaporative emissions from gasoline service station operation in AP-42, Table 5.2-7. The HAP emissions are speciated assuming the gasoline and diesel composition as listed in Table A-1 in the "Emissions Estimation Protocol for Petroleum Refineries", Version 3 (April 2015).

The PTE emissions are based on a dispensing rate of 10 gallons per minute (US Limit) and an hourly underground tank fill rate of 11,333 gallons per hour (assuming 45 minutes to unload 8,500 gallons). The maximum proposed allowable emissions is based on 5,723,746 gallons of diesel/gasoline throughput per year which is two times the maximum annual throughput reported for the years 2019-2023.

3 Regulatory Applicability Analysis

This section summarizes federal and state requirements that are applicable or potentially applicable to the facility.

3.1 New Source Review (NSR) Requirements

Emissions from a new or modified source in an attainment area must be reviewed for applicability under 40 CFR 52.21 "Prevention of Significant Deterioration of Air Quality" (PSD rule) as incorporated in Minn. R. 7007.3000. NSR-PSD requirements apply to (1) a new major source that has the potential to emit 100 tpy or more of any regulated NSR pollutant if the facility belongs to any one of 28 listed industrial source categories, (2) a new major source that has the potential to emit 250 tpy or more of any regulated NSR pollutant if the facility source categories, (3) a modified existing major source that exceeds a PSD significant emission rate, or (4) a modification to an existing minor source that is major in itself.

The facility is not one of the listed industrial source categories and is therefore subject to the major source threshold of 250 tpy, excluding fugitive emissions. The 250 tpy limit applies to carbon monoxide (CO), nitrogen oxides (NOx), particulate matter (PM), particulate matter with aerodynamic diameter less than 10 microns (PM10), particulate matter with aerodynamic diameter less than 2.5 microns (PM2.5), sulfur dioxide (SO2), and VOC.

Under the Capped permit, the facility will maintain federally enforceable emission limits to demonstrate that the facility-wide emissions will be less than the major source thresholds under PSD.

3.2 State Environmental Review Applicability

Minn. R. 4410.4300 outlines mandatory categories that trigger an Environmental Assessment Worksheet (EAW). The facility is potentially subject to one mandatory EAW category as follows:

Subp. 15. Air pollution. Items A and B designate the RGU for the type of Project listed.

A. For construction of a stationary source facility that generates 250 tons or more per year or modification of a stationary source facility that increases generation by 250 tons or more per year of any single air pollutant, other than those air pollutants described in item B, after installation of air pollution control equipment, the PCA shall be the RGU.

B. For construction of a stationary source facility that generates a combined 100,000 tons or more per year or modification of a stationary source facility that increases generation by a combined 100,000 tons or more per year of greenhouse gas emissions, after installation of air pollution control equipment, expressed as carbon dioxide equivalents, the PCA shall be the RGU. For purposes of this subpart, "greenhouse gases" include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride, and their combined carbon dioxide equivalents shall be computed by multiplying the mass amount of emissions for each of the six greenhouse gases in the pollutant GHGs by the gas's associated global warming potential published in Table A-1 to subpart A of Code of Federal Regulations, title 40, part 98, Global Warming Potentials, as amended, and summing the resultant value for each.

As shown in Table 1 above, the facility PTE is below 250 tpy for a single air pollutant and less than 100,000 tpy of CO₂e; therefore, the facility does not trigger a mandatory EAW under Minn. R. 4410.4300 Subp. 15.

3.3 40 CFR Part 60 - New Source Performance Standards (NSPS)

40 CFR Part 60 applies to any new, modified, or reconstructed stationary sources that meet or exceed specified applicability within each individual subpart. The facility is potentially subject to two NSPS regulations:

- NSPS Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
- NSPS Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

3.3.1 NSPS Subpart IIII

Subpart IIII applies to stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005, where the stationary CI ICE is either manufactured after April 1, 2006, and are not fire pump engines or are manufactured as certified National Fire Protection Association (NFPA) fire pump engines after July 1, 2006.

This facility includes one diesel-fired engine that was manufactured and installed in 2001. Because this engine was installed prior to 2005, it is not subject to NSPS Subpart III.

3.3.2 NSPS Subpart Kb

Subpart Kb applies to specific tanks. It does not apply to storage vessels located at gasoline service stations (40 CFR 60.110b(d)(6)).

The facility includes an underground storage tank; however, it is located at a gasoline service station and is therefore not subject to NSPS Subpart Kb.

3.4 40 CFR Part 61 and 40 CFR Part 63 - National Emission Standards for Hazardous Air Pollutants (NESHAP)

40 CFR 61 and 40 CFR 63 define source categories that emit hazardous air pollutants (HAPs) for major and area sources of HAPs. The major source threshold is 10 tpy for a single HAP or 25 tpy for total HAP emissions. Area sources are sources with potential HAP emissions below the major source thresholds.

Under the Capped permit, the facility will maintain federally enforceable emission limits so that facilitywide potential HAP emissions are less than 10 tpy for a single HAP and less than 25 tpy for total HAP, as summarized in Table 1; therefore, County Market is an area source of HAPs.

The facility is potentially subject to the following NESHAP:

• NESHAP Subpart ZZZZ: NESHAP for Stationary Reciprocating Internal Combustion Engines.

• NESHAP Subpart CCCCCC: National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

3.4.1 **NESHAP Subpart ZZZZ**

Subpart ZZZZ applies to stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. The engine is subject to NESHAP Subpart ZZZZ, and the facility is currently complying with its requirements.

3.4.2 **NESHAP Subpart CCCCCC**

Subpart CCCCCC applies to gasoline dispensing facilities. The facility is subject to NESHAP Subpart CCCCCC, and it is currently complying with its requirements.

3.5 Minnesota Standards for Stationary Sources (Chapter 7011)

The following sections summarize relevant Minnesota Rules listed under Chapter 7011.

3.5.1 Gasoline Service Stations

Minn. R. 7011.0865 to 7011.0870 includes requirements for gasoline service stations. It includes a requirement to operate a stage 1 vapor control system. The facility is currently complying with these requirements.

3.5.2 Liquid Petroleum and Volatile Organic Liquid Storage Vessels

Minn. R. 7011.1500 to 7011.1515 includes requirements for storage tanks. The facility is currently complying with these requirements.

3.5.3 Stationary Internal Combustion Engines

Minn. R. 7011.2300 to 7011.2310 includes requirements for stationary internal combustion engines. It includes incorporating NSPS IIII by reference and a fuel SO₂ content limit. The facility is currently complying with the applicable requirements.

3.5.4 NESHAP Incorporation by Reference

Minn. R. 7011.8150 incorporates NESHAP Subpart ZZZZ by reference while Minn. R. 7011.7185 incorporates NESHAP Subpart CCCCCC by reference. As described above, the facility is currently complying with these requirements.

3.6 Minnesota State Capped Permit Regulations

The following sections summarize the applicable Capped Permit Minnesota Rules.

3.6.1 Eligibility Requirements

Minn. R. 7007.1140, subpart 1 summarizes the criteria for a capped permit. County Market meets the following criteria:

- (1) The 12-month rolling sum of actual emissions at the stationary source for each pollutant is less than or equal to the thresholds in or option 2,
- (2) The facility does not anticipate making changes in the next year which will cause the stationary source's 12-month rolling sum of actual emissions to exceed any thresholds, and
- (3) The facility complies with the ambient air quality assessment by using the CAPS electronic spreadsheet method described in part 7007.1148, subpart 2.

In addition, the proposed facility does not meet any ineligibility requirements under Minn. R. 7007.1140, subpart 2.

3.6.2 Ambient Air Quality Assessment

Pursuant to Minn. R. 7007.1148, subpart 1, a facility with SO2, PM10, or NOx emissions applying for a capped permit must complete an ambient air quality assessment using either CAPS electronic spreadsheet method or SCREEN3 method. County Market completed an ambient air quality assessment using the CAPS electronic spreadsheet. The assessment assumes the maximum proposed allowable emissions for NO2 annual emissions and uses the dispersion factors from SCREEN3 modeling. The CAPS electronic spreadsheet is provided in Attachment C.

Attachment A

MPCA Capped Permit Application Forms

Capped Permit Qualifications Review List (CAP-00) Submittal Cover Page (SCP-01) **Insignificant Activities (CAP-IA)** Facility Information for Capped Permits (CAP-GI-01) **Process Flow Diagram (GI-02)** Facility and Stack/Vent Diagram (CAP-GI-03) Stack/Vent Information (CAP-GI-04) **Emission Unit Information (CAP-GI-05B)** Fugitive Emissions Source Information (CAP-GI-05D) **Emission Source Associations (GI-05F) Capped Permit Facility Emissions Summary (CAP-GI-07) Capped Permit Requirements Form (CAP-GI-09) Capped Permit Requirements: NESHAPS (CAP-GI-09A) Capped Permit Requirements: NSPS (CAP-GI-09D) Requirements: Stratospheric Ozone (CAP-GI-09F) Requirements: State Rules (CAP-GI-09I)**







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.: 00300271 | AQ File No.: | 142152 |
|------------------------------|--------------|--------|
| | | |

Facility Name: Kings County Market

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) |
|--|-------------------------------------|-------------------------------------|
| | 9.0 tons per year for a single HAP | 8.0 tons per year for a single HAP |
| Hazardous Air Pollutants (HAP) | 20 tons per year total for all HAPs | 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 (CO2e) | 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.

 \boxtimes 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?

 \Box 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?

 \boxtimes 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 <u>http://www.pca.state.mn.us/hqzq483</u> 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 stationany source subject to any New Source Defermance Standards other than 40 CEP |
| 1. | 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. |
| | \square res, your stationary source does not quality for the capped permit. \square No: go to question 9 |
| ٥ | Was (ic) an environmental review required for your stationary source? (i.e., new stationary sources that have a notential to emit |
| 9. | 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). |
| 4.0 | |
| 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? |
| | \square 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 guestion 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.

| | MAY | 21 | St. Paul, MN 55155-4194 Check From: St. Francis County M4 Permit Check # 69375 Date of Check Date of Dep. | application/notification/ on request fee submittal Air Quality Permit Program Doc Type: Permit Application Instructions on page 5. |
|------|-----|-------------|--|--|
| BY:_ | | 100000 | | |
| | 1a) | AQ | Q Facility ID number: 00300271 1b) Agency Interest ID number: 142 | 2152 |
| | 2) | Fac | acility name: Kings County Market | |
| | 3) | Sut | ubmittal is (choose from the following options and then complete the remainder of item 3 a | s directed): |
| | | | The final certified (or recertified) version of a previously-submitted permit application. C | omplete Section 3A. |
| | | | Additional or supplemental information requested by permit staff during the permit-writir | ng process. Complete Section 3A. |
| | | | A request that the Minnesota Pollution Control Agency (MPCA) make an applicability de | etermination. 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 | on 3B. |
| | | Not | ote: Applications for reissuance must be submitted using the MPCA's e-Services website a <u>https://www.pca.state.mn.us/data/e-services</u> . Applications outside of the e-services we is a request for confidentiality. | at ebsite will only be accepted if there |
| | | | An application for an amendment to an existing Individual Part 70 or State Permit. Com | plete Section 3B. |
| | | \boxtimes | 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 Gen | eral Permit. Complete Section 3C. |
|) | | Not | ote: Once the e-Service is available, registration, Capped, and General permit holders car administrative change to their permit through MPCA's e-Services website at <u>https://ww</u> At some point, permit holders will be required to use e-Services for administrative per change requests submitted will be denied. Check the MPCA website for the current st | n electronically apply for an <u>ww.pca.state.mn.us/data/e-services</u> . mit changes. After that, paper tatus. |
| | | | A notification required under Minn. R. 7007.1150(C); Minn. R. 7007.1250, subp. 4; Minr Minn. R. 7007.0800, subp. 10, item B. Complete Section 3D. | n. R. 7007.1350; |
| | | | A notification from a hot mix asphalt plant holding a Registration Permit of the intent to i and/or manufacturer scrap shingles in the hot mix asphalt. Complete Section 3D. | ncorporate ground tear-off shingles |
| | Se | ctio | ion 3A – Request for applicability determination, recertificatio | on of a previously- |
| | su | bm | nitted permit application, or supplement to a previously-subn | nitted permit application |
| | Us | e this | is 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 = | |

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 fol | Quantity | Points | Total points | | |
|--|---|----------------------------------|--------------|--------|----|
| Application for an In | | | x 75 = | | |
| Application for an In | dividual State Permit | | | x 50 = | |
| Application for reiss modifications to a period | 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 out confidentiality. | side of the e-services website will only be accepted if there is a | request for | | | |
| Expiration date: | Application due date (180 days prior to expiration): | | NA | NA | NA |
| (mm | /dd/yyyy) (n | nm/dd/yyyy) | | | |
| Application for a major amendment to an Individual State or Part 70 Permit Includes reconstruction or modification of a New Source Performance Standards (NSPS) | | | | x 25 = | |
| Application for a mo | derate 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 ad | | | | | |
| For administrative a https://www.pca.stat of the e-services we | mendments to individual permits, use the MPCA's e-Services te.mn.us/data/e-services. Administrative amendment application bsite will only be accepted if there is a request for confidentiality | website at ons outside ty. | | 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: <u>7492</u>. Complete the table below.

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

| Ch | oose one of the following: | Quantity | Points | Total points |
|-------------|---|----------|--------|--------------|
| | Application for a Registration Permit | | | |
| | Option A Option B Option C Option D | | x 2= | |
| \boxtimes | 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.

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 or the facility was notified of a petition for Environmental Review). The tracking number associated with the preapplication work is:

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)

5) Total application fee

| 4 | x \$285 = | \$ 1140 |
|----------------------------|-----------|--------------|
| (total points from item 4) | | (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

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".

| Owner responsible official: | Operator responsible official (if applicable) | | |
|---|--|--|--|
| Print name: | Print name: | | |
| Title: | Title: | | |
| Signature: | Signature: | | |
| Date (mm/dd/yyyy): | Date (mm/dd/yyyy): | | |
| Additional owner/operator responsible official (if applicable): | Additional owner/operator responsible official (if applicable) | | |
| Check applicable: Owner Operator. | Check applicable: | | |
| Print name: | Print name: | | |
| Title: | Title: | | |
| Organization: | Organization: | | |
| Signature: | Signature: | | |
| Date (mm/dd/yyyy): | 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.

Choose one of the following:

- L certify that my Facility is or will be located **outside** of the <u>cumulative levels and effects (CL&E) statute area</u> in South Minneapolis (approximately 1.5 miles around Hiawatha Avenue and 28th Street intersection).
- □ I certify that my Facility is or will be located **inside** of the <u>cumulative levels and effects (CL&E) statute area</u> in South Minneapolis (approximately 1.5 miles around Hiawatha Avenue and 28th Street intersection). I understand that the <u>CL&E process</u> applies before a permit can be issued.

| Owner responsible official | Operator responsible official (if applicable) |
|--|---|
| Print name: Jeffrey Kearney | Print name: |
| Title: Store Manager | Title: |
| Signature: Ayyuy & Keamen | Signature: |
| Date (mm/dd/yyyy): 5-16-2029 (| Date (mm/dd/yyyy): |
| Additional owner/operator responsible official (if applicable) | Additional owner/operator responsible official (if applicable) |
| Print name: | Print name: |
| Title: | Title: |
| Organization: | Organization: |
| Signature: | Signature: |
| Date (mm/dd/yyyy): | Date (mm/dd/yyyy): |

8) Package submittal

Applications, notifications, and/or requests that are submitted without authorized signature(s) (under submittal certification for all applications and under confidentiality certification if you are seeking confidential treatment of any information in the application); without required forms, and/or without the required application fee, will be returned. You must submit at least one SCP-01 that bears the original signature(s) (i.e., is not a photocopy of the signed signature page). Please make your check out to the Minnesota Pollution Control Agency. Send the complete application package and check to:

Fiscal Services – 6th Floor Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4194

You may choose to submit your application as a "pdf" file on an electronic media, such as a compact disc (CD) or USB drive. If you choose this option, you must still include a paper copy of any form that requires a signature.

MINNESOTA POLLUTION CONTROL AGENCY

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

CAP-IA

Insignificant activities

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: 00300 | 0271 1b) Agency Interest ID number: 142152 |
|-----------|---------------------------------|---|
| 2) | Facility name: Kings County | Market |
| 3) | Check and describe insignificar | activities |
| - | | |
| | Rule citation | Description of activities at the facility |
| | 7007.1300, subp. 3(A) | |
| | | |
| \square | 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) | |
| | | |
| | 7007.1300, subp. 3(E) | |
| | | Various natural gas fired heaters below emission thresholds: Rooftop Unit #1-#10, Hanging |
| | 7007.1300, subp. 3(F) | Units #1-#4, Infrared Heaters #1-#4 |
| _ | | |
| | 7007.1300, subp. 3(G) | |
| | 7007 1200 output | |
| | 1007.1300, Supp. 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)?

 \Box Yes \boxtimes No I am applying for an option 2 capped permit.

| m | | | | | CAP-GI-01 |
|---------|--------------------------------------|------------------------------|---------------------------------------|---------------------------|----------------------------------|
| •• | 520 Lafayette St. Paul, MN 5 | Road North 5155-4194 | Fac | ility Informatio | Air Quality Permit Program |
| | | | | | Instructions on Page 3 |
| 4-> | | | | | 140450 |
| 1a) | | | A | | Jel. 142152 |
| 2) | Facility name: | Kings County Market | | | |
| 3) | Facility location Street Address: | 23122 St. Francis Blvd NW | 1 | | |
| | City: | St. Francis | County: A | noka | Zip code: <u>55070</u> |
| Not | e: If the facility is | or will be located within th | ne city limits of Minneapol | lis, attach a map sho | wing the exact location. |
| | Mailing Address: | 23122 St. Francis Blvd N | IW | | |
| | City | : St. Francis | State: MN | | Zip code: _55070 |
| 4) | Corporate/Comp | oany Owner | | | |
| | Name | : King's Supermarkets, In | С. | | |
| | Mailing Address | : 23122 St. Francis Blvd N | 1W | | |
| | 0.1 | | <u> </u> | | 7: 1 55070 |
| | City | | | | Zip code:55070 |
| 0 | wner Classification | : 🖾 Private 📋 Local Go | vt. 📋 State Govt. 📋 Feo | leral Govt. 📋 Utility | |
| | Legally respon | nsible official | | | |
| | Nan | ne: Robert F King | | Phone | : 763-753-3334 |
| | Tit | ile: <u>President</u> | | Fax | : |
| | Mailing Addres | ss: 23122 St. Francis Blv | 1 NW | | |
| | C | ity: St. Francis | State: | MN | Zip code: 55070 |
| | Email addre | ss: BOB@KingsMarket.ne | et | | |
| | Indicate owner | rship interest in percent: 1 | 00% | | |
| 5) | Corporate/Com | oany Operator (if different | than owner) | | |
| - / | Name | e: | · · · · · · · · · · · · · · · · · · · | | |
| | Mailing Addres | s: | | | |
| | | | | | |
| | Cit | y: | State: | | Zip code: |
| | Legally respo | nsible official: | | | |
| | Nan | ne: | | Phone | : |
| | Tit | :le: | | Fax | : |
| | Mailing Addre | ss: | | | |
| | | | . | | |
| | Ci Even sitter at allows | ity: | State: | | Zip code: |
| | Email addres | SS: | | | |
| 6) | Additional Corp | orate/Company owner or | operator (if applicable) | | |
| | Check applicable | e: 🗌 Owner 🗌 Operato | r. | | |
| | Name | ə: | | | |
| | Mailing Addres | s: | | | |
| | Cit | | State | | Zin code: |
| | | y | | | בוף טטעפ. |
| https:/ | //www.pca.state.mn.us | • 651-296-6300 • | 800-657-3864 • Use you | r preferred relay service | Available in alternative formats |

aq-f10-capgi01 • 11/3/23

 ⁸⁰⁰⁻⁶⁵⁷⁻³⁸⁶⁴ Use your preferred relay service

Legally responsible official (Continued from question 6 on previous page.) Name: Phone: Title: Fax: _____ Mailing Address: State: Zip code: City: Email address: If owner, indicate ownership interest in percent: 7) Do you have more Corporate/Company owners and/or operators? Yes X No If yes, attach additional sheets with the information indicated in item 6 for each owner and/or operator not listed above. 8) Facility contact person for this permit Name: Jeffrey Kearney Phone: 763-753-3334 Title: Store Manager Fax: Organization: Kings County Market Mailing Address: 23122 St. Francis Blvd NW City: St. Francis State: MN Zip code: 55070 Email address: cmjeffkearney@aol.com All billings for annual fees should be addressed to: 9) Name: Jeffrey Kearney Phone: 763-753-3334 Title: Store Manager Fax: Organization: Mailing Address: 23122 St. Francis Blvd NW City: St. Francis _____ State: MN Zip code: 55070 Email address: cmjeffkearney@aol.com 10) Standard Industrial Classification (SIC) Code and description, and North American Industry Classification System (NAICS) code and description for the facility: Primary: 5411 445110 Secondary (if applicable): 4911 / 221118 Tertiary (if applicable): / Primary NAICS code: _____/ 11) Primary product produced (or activity performed) at the facility is: Grocerv Store **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 number: \square Existing facility, but have never had an Air Emission Permit issued by the MPCA **14)** (Reserved for future use) Is environmental review required (either an Environmental Assessment Worksheet (EAW) or an Environmental Impact 15) Statement (EIS)) for this facility?. Yes No 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. Are you required to submit a Toxics Release Inventory (Form R) under SARA Title 313 for this facility? Call the Minnesota 16) Emergency Planning and Community Right-to-Know Act (EPCRA) Program for more information (651-201-7400). No No Yes

| 17) | Is this facility within 50 miles of another state or the Canadian border: | | | | | | | |
|--------------------------|---|---------------------------------|--|----------------|---------------|----------------|-----------|-------|
| | 🛛 Yes (| specify which ones) WI | | | | No | | |
| 18) | 8) Brief description of the facility or proposed facility to be permitted (attach additional sheet if necessary): | | | | | | | |
| | See attac | hed | | | | | | |
| 19) | (Reserved | for future use) | | | | | | |
| 20) | Person pre | paring this permit application: | | | | | | |
| | Name: | Sara Wandrei | | | | | | |
| | Title: | Chemical Engineer | | Email address: | SWa | ndrei@barr.com | | |
| O | rganization: | Barr Engineering Co. | | | | | | |
| Maili | ng address | 4300 MarketPointe Dr | | | | | | |
| | | Suite 200 | | | | | | |
| | City: | Minneapolis | | | State: | MN | Zip code: | 55435 |
| Phone: 952.832.2891 Fax: | | | | Date (mm/d | d/yyyy):4/1/2 | 024 | | |
| | | | | | | | | |

MINNESOTA POLLUTION CONTROL AGENCY

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

GI-02 Process Flow Diagram

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2.



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



| (Ω) | Minnesota Pollution Control Agency | PERMIT APPLICATION FORM CAP-GI-03 |
|------------|---|-----------------------------------|
| | Air Ouality | FACILITY AND STACK/VENT |
| | 520 LAFAYETTE ROAD NO., ST. PAUL, MN 55155-4194 | DIAGRAM |

- 1) AQ Facility ID No.: 00300271
- 2) Facility Name:

Kings County Market

3) Facility and Stack/Vent Diagram:



10/7/04



PERMIT APPLICATION FORM CAP-GI-04 STACK/VENT INFORMATION 3/7/06

520 LAFAYETTE ROAD NO., ST. PAUL, MN 55155-4194

| 1) AQ Facility ID No.: | 00300271 | 2) Facility Name: | Kings County Market |
|------------------------|----------|--------------------------|---------------------|
| | | | |

| 3 a) | 3 b) | 3c) | | 3d) | 3 e) | 3f) | 3g) | 3h) |
|--------------|------------------------|---|---|-----|---------------------------------------|----------------------------------|------------------------------------|------------------------|
| SV ID No. | Operator's Description | Height of Opening From Ground (ft.) | Inside Diameter in ft. (left column only) or Length x Width in ft. (both columns) | | Design Flow Rate at Exit (acfm) | Exit Gas Temperature (° F) | Rate/Temp Information Source | Discharge Direction |
| 001 | Engine Stack | 24.83 | 1.167 | | 12030 | 700 | Е | U |
| | | | | | | | | |
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CAP-GI-05B

Emission Unit Information

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2.

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|-----|------------------------|----------|--------------------------------|--------|
| | | | | |

2) Facility name: Kings County Market

| 3) | Fill in a column in the table | below for each emission unit (EL | //EQUI). Form GI-05F Emission So | <i>purce Association</i> must also be su | bmitted whenever this form is |
|----|-------------------------------|----------------------------------|----------------------------------|--|-------------------------------|
| | roquirour | | | | |

| 3a) Emission unit ID number | EQUI 01 | | | |
|--|---------------------------------|-----------------------|-----------------------|-----------------------|
| 3b) Emission unit type | Reciprocating ic engine | | | |
| 3c) Emission unit operator's description | Engine | | | |
| 3d) Manufacturer | Detroit Diesel | | | |
| 3e) Model number | T1237K36 | | | |
| 3f) Max design capacity, material and units | 1,250 units: kw/ material: | units: / material: | units: / material: | units: / material: |
| 3g) Commence construction date (mm/dd/yyyy) | 1/1/2001 🗌 to be determined | to be determined | to be determined | to be determined |
| 3h) Initial startup date (mm/dd/yyyy) | 11/1/2001 □ to be determined | ☐ to be determined | ☐ to be determined | ☐ to be determined |
| 3i) Modification or reconstructed date (mm/dd/yyyy) | | | | |
| 3j) Firing method | CI | | | |
| 3k) Engine use | unlimited use | | | |
| 3I) Engine displacement | 4.1 Units: I/cyl | Units: | Units: | Units: |
| 3m) Subject to CSAPR? | | | | |
| 3n) Electric generating capacity (megawatts) | | | | |
| 3o) SIC code | 3519 | | | |
| 3p) Status | Active | | | |
| 3q) Removal date (mm/dd/yyyy) | | | | |



CAP-GI-05D

Fugitive emission source information

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) AQ | Facility ID number: | 00300271 | 1b) Agency Interest ID number: <u>142152</u> |
|---------------|-------------------------|-------------|--|
| 2) Fac | ility name: Kings Count | y Market | |
| | | | |
| 3a) | 3b) | 3c) | 3d) |
| Fugitive | Pollutant Emitted | Included in | |

| Fugitive source ID number | Pollutant Emitted (particulate matter (PM) or VOC) | Included in ambient assessment? | Description of Fugitive Emission Source |
|---------------------------------|--|---------------------------------------|--|
| FUGI 01 | VOC | Yes | VOC and HAP emissions from the service station at the grocery store; include emissions from filling the underground gas stroage and filling individual vehicle's gas tanks |
| | | | |
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Emission source associations

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 3.

| 1a) AQ Facility ID number: 00300271 | 1b) |) Agency Interest ID number: 14 | 2152 |
|-------------------------------------|-----|---------------------------------|------|
|-------------------------------------|-----|---------------------------------|------|

2) Facility name: Kings County Market

Check this box if using GI-05F for a *Reissuance application*. You will need the AQ SI details report labeled *SI-SI relationships*. See the instructions for fields that may be marked "null" in the *SI-SI relationships* report.

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 EQUIxxx, TREAxxx, STRUxxx, FUGIxxx, etc.

| 3a) | 3b) | 3c) | 3d) | 3e) | 3f) | 3g) | 3h) | 3i) | 3j) | 3k) | 31) |
|------------------------|-----------|------------------|-----------------|----------------------------|--------------------------|-----------|--------------|------------------|----------------------------|--------------------------|---|
| Source ID number | % Flow | Relationship | CE ID number | Start date (mm/dd/yyyy) | End date (mm/dd/yyyy) | % Flow | Relationship | S/V ID number | Start date (mm/dd/yyyy) | End date (mm/dd/yyyy) | Comments |
| EQUI 01 | | is controlled by | N/A | | | 100 | sends to | STRU 01 | 11/1/2001 | | There is no control on the engine |
| FUGI 01 | | is controlled by | N/A | | | | sends to | N/A | | | This fugitive source does not have any control and does not vent to a stack |
| | | is controlled by | | | | | sends to | | | | |
| | | is controlled by | | | | | sends to | | | | |
| | | is controlled by | | | | | sends to | | | | |
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https://www.pca.state.mn.us aq-f1-gi05f • 3/7/22 800-657-3864

.



CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) AQ Facility ID number: 00300271 1b) Agency Interest ID number: 142152 |
|---|
|---|

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | | | CAS#: | | | CAS#: | | |
|----------|--------------|----------------------------|---------------------|-----------------------|-----------------|---------------------|-----------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | NOx | | Pollutant name: | СО | 1 | Pollutant name: | PM | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 23.05 | 100.97 | 0.68 | 13.09 | 57.33 | 0.39 | 1.54 | 6.75 | 0.05 |
| FUGI | 01 | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

| 4) | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required |
|----------------|------------------|----------------------------|------------------------|------------------|-------------------------------|------------------------|------------------|----------------------------|------------------------|
| Total facility | 23.05 | 100.97 | 0.68 | 13.09 | 57.33 | 0.39 | 1.54 | 6.75 | 0.05 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|-----|------------------------|----------|---------------------------------------|--------|

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | | | CAS#: | | | CAS#: | | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|-----------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | PM10 | | Pollutant name: | PM2.5 | | Pollutant name: | VOC | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 0.88 | 3.86 | 0.03 | 0.86 | 3.75 | 0.03 | 1.39 | 6.07 | 0.04 |
| FUGI | 01 | | | | | | | 113.01 | 478.30 | 16.77 |
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| 4) | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required |
|----------------|------------------|----------------------------|------------------------|------------------|-------------------------------|------------------------|------------------|----------------------------|------------------------|
| Total facility | 0.88 | 3.86 | 0.03 | 0.86 | 3.75 | 0.03 | 114.40 | 484.37 | 1.81 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|-----|------------------------|----------|---------------------------------------|--------|

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | | | CAS#: | | | CAS#: | | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | SO2 | | Pollutant name: | CO2e | | Pollutant name: | Total HAP | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 0.02 | 0.10 | 6.88E-04 | 2,520 | 11,036 | 74 | 0.04 | 0.18 | 1.23E-03 |
| FUGI | 01 | | | | | | | 29.60 | 125.27 | 3.89 |
| | | | | | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 0.02 | 0.10 | 6.88E-04 | 2,520 | 11,036 | 74 | 29.64 | 125.45 | 3.89 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|-----|--------------------------|----------|---------------------------------------|--------|
| 16, | All a donity is harnoon. | | no rigonoy interest is names. | |

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 71-43-2 | | CAS#: | 95-63-6 | | CAS#: | 106-99-0 | |
|----------|----------|----------------------------|--------------|--------------|-----------------|------------------|-------------|-----------------|---------------|-------------|
| Emission | Emission | 3d) Pollutant name: | Benzene | | Pollutant name: | 1,2,4-Trimethylb | enzene | Pollutant name: | 1,3-Butadiene | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID | | tpy | Actual | | tpy | Actual | | tpy | Actual |
| | number | lbs per hr | unrestricted | tons per yr | lbs per hr | unrestricted | tons per yr | lbs per hr | unrestricted | tons per yr |
| EQUI | 01 | 0.01 | 0.05 | 3.53E-04 | | | | | | |
| FUGI | 01 | 1.58 | 6.70 | 0.21 | 3.39 | 14.36 | 0.45 | 1.02E-03 | 4.30E-03 | 1.33E-04 |
| | | | | | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required |
|----------------|------------------|----------------------------|------------------------|------------------|-------------------------------|------------------------|------------------|----------------------------|------------------------|
| Total facility | 1.59 | 6.75 | 0.21 | 3.39 | 14.36 | 0.45 | 1.02E-03 | 4.30E-03 | 1.33E-04 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| | 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|--|-----|------------------------|----------|---------------------------------------|--------|
|--|-----|------------------------|----------|---------------------------------------|--------|

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 540-84-1 | | CAS#: | 83-32-9 | | CAS#: | 208-96-8 | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|------------------------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | 2,2,4-Trimeth | ylpentane | Pollutant name: | Acenaphthene | | Pollutant name: Acenaphthyle | | ne |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | | | | 7.21E-05 | 3.16E-04 | 2.13E-06 | 1.42E-04 | 6.23E-04 | 4.19E-06 |
| FUGI | 01 | 3.32 | 14.06 | 0.44 | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 3.32 | 14.06 | 0.44 | 7.21E-05 | 3.16E-04 | 2.13E-06 | 1.42E-04 | 6.23E-04 | 4.19E-06 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| Ta) AQ Facility ID number. 00300271 Tb) Agency interest iD number. 142152 | 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|---|-----|------------------------|----------|---------------------------------------|--------|
|---|-----|------------------------|----------|---------------------------------------|--------|

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 75-07-0 | | CAS#: | 107-02-8 | | CAS#: | 120-12-7 | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | Acetaldehyde | | Pollutant name: | Acrolein | | Pollutant name: | Anthracene | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 3.88E-04 | 1.70E-03 | 1.14E-05 | 1.21E-04 | 5.32E-04 | 3.58E-06 | 1.89E-05 | 8.30E-05 | 5.59E-07 |
| FUGI | 01 | | | | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 3.88E-04 | 1.70E-03 | 1.14E-05 | 1.21E-04 | 5.32E-04 | 3.58E-06 | 1.98E-05 | 8.30E-05 | 5.59E-07 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number | 00300271 | 1b) Agency Interest ID number | 142152 |
|------|-----------------------|----------|--------------------------------------|--------|
| i aj | Ag racinty ib number. | 00300211 | ng Ageney interest ib number. | 142102 |

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 56-55-3 | | CAS#: | 50-32-8 | | CAS#: | 205-99-2 | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|-----------------------|------------------------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | Benz(a)anthra | acene | Pollutant name: | Benzo(a)pyrene | | Pollutant name: Benzo(b)fluo | | anthene |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 9.58E-06 | 4.20E-05 | 2.83E-07 | 1.98E-06 | 8.67E-06 | 5.84E-08 | 1.71E-05 | 4.49E-05 | 5.04E-07 |
| FUGI | 01 | | | | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 9.58E-06 | 4.20E-05 | 2.83E-07 | 1.98E-06 | 8.67E-06 | 5.84E-08 | 1.71E-05 | 4.49E-05 | 5.04E-07 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|------|---------------------------|----------|---------------------------------------|--------|
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2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | cas#: 205-99-2 | | CAS#: | 207-08-9 | | CAS#: | 92-52-4 | |
|----------|--------------|---|---------------------|-----------------------|--|---------------------|-----------------------|------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: Benzo(g,h,i)pe 3e) Potential | | erylene | lene Pollutant name: Benzo(k)fluorant f) optional Potential | | Benzo(k)fluoranthene | | Biphenyl | |
| source | source | | | SI) Optional | | | | Potential | | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 4.28E-06 | 1.88E-05 | 1.26E-07 | 1.68E-06 | 7.35E-06 | 4.95E-08 | | | |
| FUGI | 01 | | | | | | | 0.13 | 0.56 | 2.27E-03 |
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| 4) | Potential lbs/hr | Unrestricted potential tpv | Actual TPY required | Potential lbs/hr | Unrestricted | Actual TPY required | Potential lbs/hr | Unrestricted | Actual TPY required |
|----------------|------------------|----------------------------|------------------------|------------------|--------------|------------------------|------------------|--------------|------------------------|
| Total facility | 4.28E-06 | 1.88E-05 | 1.26E-07 | 1.68E-06 | 7.35E-06 | 4.95E-08 | 0.13 | 0.56 | 2.27E-03 |

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Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|------|-------------------------|----------|---------------------------------------|--------|
| •••, | ria i aonity ib hambon. | | | 112102 |

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 218-01-9 | | CAS#: | 98-82-8 | | CAS#: | 53-70-3 | |
|----------|--------------|----------------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | Chrysene | | Pollutant name: | Cumene | | Pollutant name: | Dibenzo(a,h)a | Inthracene |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 2.36E-05 | 1.03E-04 | 6.95E-07 | | | | 2.66E-06 | 1.17E-05 | 7.86E-08 |
| FUGI | 01 | | | | 0.25 | 1.05 | 0.03 | | | |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 2.36E-05 | 1.03E-04 | 6.95E-07 | 0.25 | 1.05 | 0.03 | 2.66E-06 | 1.17E-05 | 7.86E-08 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 100-41-4 | | CAS#: | 206-44-0 | | CAS#: | 86-73-7 | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | Ethylbenzene | | Pollutant name: | Fluoranthene | | Pollutant name: | Fluorene | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | | | | 6.21E-05 | 2.72E-04 | 1.83E-06 | 1.97E-04 | 8.63E-04 | 5.82E-06 |
| FUGI | 01 | 1.68 | 7.13 | 0.22 | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required | Potential lbs/hr | Unrestricted potential tpy | Actual TPY required |
|----------------|------------------|----------------------------|------------------------|------------------|-------------------------------|------------------------|------------------|----------------------------|------------------------|
| Total facility | 1.68 | 7.13 | 0.22 | 6.21E-05 | 2.72E-04 | 1.83E-06 | 1.97E-04 | 8.63E-04 | 5.82E-06 |

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CAP-GI-07

Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| | 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|--|-----|------------------------|----------|---------------------------------------|--------|
|--|-----|------------------------|----------|---------------------------------------|--------|

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 50-00-0 | | CAS#: | 193-39-5 | | CAS#: | 91-20-3 | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | Formaldehyde | 9 | Pollutant name: | Indeno(1,2,3-cd |)pyrene | Pollutant name: | Naphthalene | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 1.22E-03 | 0.01 | 3.58E-05 | 3.19E-06 | 1.40E-05 | 9.40E-08 | 0.02 | 0.09 | 5.91E-04 |
| FUGI | 01 | | | | | | | 0.47 | 1.98 | 0.07 |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 1.22E-03 | 0.01 | 3.58E-06 | 3.19E-06 | 1.40E-05 | 9.40E-08 | 0.49 | 2.07 | 0.07 |

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Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|-----|------------------------|----------|---------------------------------------|--------|
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2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 110-54-3 | | CAS#: | 85-01-8 | | CAS#: | 115-07-1 | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | n-Hexane | | Pollutant name: | Phenanthrene | | Pollutant name: | Propylene | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | | | | 6.28E-04 | 2.75E-03 | 1.85E-05 | 0.04 | 0.19 | 1.27E-03 |
| FUGI | 01 | 1.42 | 5.31 | 0.33 | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | requirea | | potential tpy | requirea |
| Total facility | 1.42 | 5.31 | 0.33 | 6.28E-04 | 2.75E-03 | 1.85E-05 | 0.04 | 0.19 | 1.27E-03 |

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Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|-----|------------------------|----------|---------------------------------------|--------|
| ••• | | | | |

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 129-00-0 | | CAS#: | 100-42-5 | | CAS#: | 108-88-3 | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | Pyrene | | Pollutant name: | Styrene | | Pollutant name: | Toluene | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 5.71E-05 | 2.50E-04 | 1.69E-06 | | | | 4.33E-03 | 0.02 | 1.28E-04 |
| FUGI | 01 | | | | 0.09 | 0.37 | 0.01 | 7.74 | 32.78 | 1.15 |
| | | | | | | | | | | |
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| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 5.71E-05 | 2.50E-04 | 1.69E-06 | 0.09 | 0.37 | 0.01 | 7.75 | 32.80 | 1.15 |

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Capped Permit facility emissions summary

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |
|-----|------------------------|----------|---------------------------------------|--------|
| 1a) | AQ Facility ID number: | 00300271 | 1b) Agency Interest ID number: | 142152 |

2) Facility name: Kings County Market

| 3a) | 3b) | 3c) CAS#: | 1330-20-7 | | CAS#: | | | CAS#: | | |
|----------|--------------|---------------------|---------------------|-----------------------|-----------------|---------------------|-----------------------|-----------------|---------------------|-----------------------|
| Emission | Emission | 3d) Pollutant name: | Xylenes | | Pollutant name: | | | Pollutant name: | | |
| source | source | 3e) Potent | ial | 3f) optional | Poter | ntial | | Poten | tial | |
| type | ID number | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr | lbs per hr | tpy unrestricted | Actual tons per yr |
| EQUI | 01 | 2.97E-03 | 0.01 | 8.77E-05 | | | | | | |
| FUGI | 01 | 7.41 | 31.38 | 0.98 | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

| 4) | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY | Potential lbs/hr | Unrestricted | Actual TPY |
|----------------|------------------|---------------|------------|------------------|---------------|------------|------------------|---------------|------------|
| | | potential tpy | required | | potential tpy | required | | potential tpy | required |
| Total facility | 7.42 | 31.39 | 0.98 | | | | | | |

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https://www.pca.state.mn.us aq-f10-capgi07 • 5/8/20



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.: | 00300271 | AQ File No.: | 142152 |
|---------------------|--------------------|--------------|--------|
| Facility Name: K | ings County Market | | |

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: ____

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 <u>http://www.epa.gov/ttn/atw/183e/gen/183epg.html</u> 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: <u>County Market does not currently operate under an air emission permit; this</u> application is being submitted at the MPCA's request to ensure the facility obtains the appropriate air permit.

| 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.

CONTROL AGENCY

MINNESOTA POLLUTION

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: 00300271 Agency Interest ID number: 142152

Facility name: Kings County Market

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 AAAAAA

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 RRRRR

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 YYYYY

☐ 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 PPPPP

Metal Fabrication and Finishing Sources, 40 CFR § 63 Subpart XXXXXX

Nonferrous Foundries: Aluminum, Copper, and Other, 40 CFR § 63 Subpart ZZZZZ

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 QQQQQ

Notes

- If any part of your facility is subject Subpart(s) MMMMMM, NNNNNN, YYYYY, SSSSSS, EEEEEE, EEEEEEE, GGGGGGG, 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.
- 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 | 119937 | 3,3-Dimethyl benzidine |
|---------|--|----------------|--|
| 60355 | Acetamide | 79447 | Dimethyl carbamoyl chloride |
| 75058 | Acetonitrile | 68122 | Dimethyl formamide |
| 98862 | Acetophenone | 57147 | 1,1 Dimethyl hydrazine |
| 53963 | 2-Acetylaminofluorene | 131113 | Dimethyl phthalate |
| 107028 | Acrolein | 77781 | Dimethyl Sulfate |
| 79061 | Acrylamide | 534521 | 4,6-Dintro-o-cresol, and salts |
| 79107 | Acrylic acid | 51285 | 2.4-Dinitrophenol |
| 107131 | Acrylonitrile | 121142 | 2.4-Dinitrotoluene |
| 107051 | Allvi chloride | 123911 | 1.4-Dioxane (1.4-Diethyleneoxide) |
| 92671 | 4-Áminobiphenvl | 122667 | 1.2-Diphenvlhvdrazine |
| 62533 | Aniline | | , |
| 90040 | o-Anisidine | 106898 | Epichlorohydrin (1-Chloro-2.3- |
| 1332214 | Asbestos | | epoxypropane) |
| | | 106887 | 1.2-Epoxybutane |
| 71432 | Benzene | 140885 | Ethyl acrylate |
| 92875 | Benzidine | 100414 | Ethyl benzene |
| 98077 | Benzotrichloride | 51796 | Ethyl carbamate (Urethane) |
| 100447 | Benzyl chloride | 75003 | Ethyl chloride (Chloroethane) |
| 92524 | Binhenvl | 106934 | Ethylene dibromide (Dibromoethane) |
| 117817 | Bis (2-ethylbexyl) phthalate (DEHP) | 107062 | Ethylene dichloride (1.2- Dichloroethane) |
| 5/2881 | Bis (chloromethyl) ether | 107002 | Ethylene divcol |
| 75252 | Bromoform | 15156/ | Ethylene imine (Aziridine) |
| 106045 | 1 Bromonronano (n propyl bromido) | 75210 | Ethylene oxide |
| 100943 | 1.2 Putediene | 06457 | Ethylene thiourog |
| 100990 | 1,5-Dulaulerie | 90407 75242 | Ethylidene diebleride (1.1 Dieblereethene) |
| 156607 | | 75545 | |
| 100027 | Calcium cyanamide | 50000 | Formaldabyda |
| 133002 | Capitali | 50000 | Formaldenyde |
| 03252 | Carbaryi Carbar diaulfida | 70440 | l la mén a ha la m |
| 75150 | Carbon disulide | /0448 | Heptacholor |
| 56235 | | 118741 | Hexachlorobenzene |
| 403581 | Carbonyl sulfide | 87683 | |
| 120809 | | //4/4 | Hexachiorocyclopentadiene |
| 133904 | Chloramben | 67721 | |
| 57749 | | 822060 | Hexamethylene-1,6-dilsocyanate |
| 7782505 | Chlorine | 680319 | Hexamethylphosphoramide |
| 79118 | Chloroacetic acid | 110543 | Hexane |
| 532274 | 2-Chloroacetophenone | 302012 | Hydrazine |
| 108907 | Chlorobenzene | 7647010 | Hydrochloric acid |
| 510156 | Chlorobenzilate | 7664393 | Hydrogen flouride (nydrofluoric acid) |
| 67663 | Chloroform | 123319 | Hydroquinone |
| 107302 | Chloromethyl methyl ether | | |
| 126998 | Chloroprene | 78591 | Isophorone |
| 1319773 | Cresols/Cresylic acid (isomers and mixture) | | |
| 95487 | 0-Cresol | 58899 | Lindane (all isomers) |
| 108394 | m-Cresol | | |
| 106445 | p-Cresol | 108316 | Maleic anhydride |
| 98828 | Cumene | 67561 | Methanol |
| | | 72435 | Methoxychlor |
| 94757 | 2,4-D, salts and esters | 74839 | Methyl bromide (Bromomethane) |
| 3547044 | DDE | 74873 | Methyl chloride (Choromethane) |
| 334883 | Diazomethane | 71556 | Methyl chloroform (1,1,1-Trichloroethane) |
| 132649 | Dibenzofurans | 60344 | Methyl hydrazine |
| 96128 | 1,2-Dibromo-3-chloropropane | 74884 | Methyl iodide (lodomethane) |
| 84742 | Dibutylphthalate | 108101 | Methyl isobutyl ketone (Hexone) |
| 106467 | 1,4-Dichlorobenzene(p) | 624839 | Methyl isocyanate |
| 91941 | 3,3'-Dichlorobenzidene | 80626 | Methyl methacrylate |
| 111444 | Dichloroethyl ether (Bis(2-chloroethyl)either) | 1634044 | Methyl tert butyl ether |
| 542756 | 1,3-Dichloropropene | 101144 | 4,4-Methylene bis (2-chloroaniline) |
| 62737 | Dichlorvos | 75092 | Methylene chloride (Dichloromethane) |
| 111422 | Diethanolamine | 101688 | Methlene diphenyl diisocyanate (MDI) |
| 121697 | N,N-Diethyl aniline (N,N- Dimethylaniline) | 101779 | 4,4'-methylenedianiline |
| 64675 | Diethyl sulfate | | |
| 119904 | 3,3-Dimethoxybenzidine | | |
| 60117 | Dimethyl aminoazobenzene | | |

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Table A - Hazardous Air Pollutants

| 91203 98953 92933 100027 79469 684935 62759 59892 | Naphthalene Nitrobenzene 4-Nitrobiphenyl 4-Nitrophenol 2-Nitropropane N-Nitroso-N-methylurea N-Nitrosodimethylamine N-Nitosomorpholine | 0 0 0 0 0 0 | Antimony compounds Arsenic compounds (inorganic including arsine) Beryllium compounds Cadmium compounds Chromium compounds Cobalt compounds Coke oven emissions |
|--|--|---|--|
| 56382 82688 87865 108952 106503 75445 7803512 7723140 85449 1336363 1120714 57578 123386 114261 78875 75569 | Parathion Pentachloronitrobenzene (Quintobenzene) Pentachlorophenol Phenol p-Phenylenediamine Phosgene Phosphine Phosphorus Phthalic anhydride Polychlorinated biphenyls (aroclors) 1,3-Propane sultone beta-Propiolactone Propionaldehyde Propoxur (Baygon) Propylene dichloride (1,2-Dichloropropane) Propylene oxide | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Glycol ethers ¹ Lead compounds Manganese compounds Mercury compounds Mineral fibers ² Nickel compounds Polycyclic organic matter ³ Radionuclides ⁴ Selenium compounds mgs above which contain the word d for glycol ethers, the following applies: e specified, these listings are defined as que chemical substance that contains the (i.e., antimony, arsenic, etc.) as part of that tructure. |
| 75558 91225 106514 100425 96093 | 1,2-Propylenimine (2-Methyl aziridine) Quinoline Quinone Styrene | ¹ Glycol ethers in diethylene glycol, where n = 1, 2, or 3 R = alkyl C7 | clude mono- and di- ethers of ethylene glycol, , and triethylene glycol R-(OCH ₂ CH ₂) _n -OR' or less; or |
| 1746016 79345 127184 7550450 108883 95807 584849 95534 8001352 120821 79005 79016 95954 88062 121448 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin 1,1,2,2-Tetrachloroethane Tetrachloroethylene (Perchloroethylene) Titanium tetrachloride Toluene 2,4-Toluene diamine 2,4-Toluene diisocyanate o-Toluidine Toxaphene (chlorinated camphene) 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane Trichloroethylene (TCE) ⁵ 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Triethylamine | R = phenyl o R' = H or alk OR' consistin nitrate, or su Glycol ethers o (EGBE, 2-Buto ² Includes minera glass, rock, or sla average diamete ³ Includes organi- ring, and which h 100°C. ⁴ A type of atom y | or alkyl substituted phenyl; yl C7 or less; or ng of carboxylic acid ester, sulfate, phosphate, lfonate. Io no include ethylene glycol monobutyl ether oxyethanol, CAS Number 111-76-2). al fiber emissions from facilities manufacturing ag fibers (or other mineral derived fibers) of r 1 micron or less. c compounds with more than one benzene ave a boiling point greater than or equal to |
| 1582098 540841 108054 593602 75014 75354 1330207 95476 108383 106423 | Vinyl acetate Vinyl acetate Vinyl bromide Vinyl chloride Vinyl chloride (1,1-Dichloroethylene) Xylenes (isomers and mixtures) o-Xylenes m-Xylenes p-Xylenes | ⁵ Trichloroethyler banned in Minnes 116.385. | ne (TCE) use on or after June 1, 2022, is sota, under Minnesota Statutes, section |

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 | JJJ | 9/12/96 | 7/31/97 |
| _ IV) Aprospace Industry | 66 | 0/1/05 | 0/1/08 |
| Alloyd regine production (Miss. Organia Chamical Draduction and | | 9/1/95 | 9/1/90 |
| Processes (MON)) | | 11/10/03 | 11/10/00 |
| Amino resins production(Polymers and Resins III) | 000 | 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 | | 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 | UUUU | 6/11/02 | 6/11/05 |
| (Cellulose Production Manufacturing) | | | |
| Carbonyl sulfide production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Cellophane production | 0000 | 6/11/02 | 6/11/05 |
| Cellulose rhoduction Manufacturing) | 1000 | 6/11/02 | 6/11/05 |
| (Collulose Broduction Manufacturing) | 0000 | 0/11/02 | 0/11/05 |
| Cellulose food casing manufacturing | 1000 | 6/11/02 | 6/11/05 |
| (Cellulose Production Manufacturing) | 0000 | 0/11/02 | 0/11/03 |
| Clav Ceramics Manufacturing | ККККК | 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 | 22222 | 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 | 0 | 12/6/94 | 12/6/98 |
| Cvanide Chemicals Manufacturing (Generic MACT) | ŶŶ | 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)

| Dogs Dogs Dogs Displantation Epicherorydrin elastomers production(Polymers and Resins I) U 9/5/96 3/3/97 Entylicency conduction (Polymers and Resins I) U 9/5/96 3/3/97 Ethylicency conduction (Polymers and Resins I) U 9/5/96 3/3/97 Ethylicency conduction (MON) FFFF 11/10/06 11/10/06 Ethylicency conduction (MON) FFFF 11/10/03 11/10/06 Ethylicency conduction (Mon) XXX 5/20/95 5/20/01 Flacible Polyurethane Foam Endication Operations MMMMM 4/14/04 4/11/05 Envisition Productis Manufacturing OQOQO 10/18/02 10/18/03 Envisition (Stage 1) R 12/14/94 12/15/97 Halogenated solvent cleaners (Degreasing Organic Cleaners) T 12/20/94 5/12/96 Hazardous Organi | Categories of Major Sources | Subpart | Rule Promulgation | Compliance Date for Existing Sources |
|---|---|----------|----------------------|--|
| Engline fract Clearation of Polymers and Resins I) U 95/106 3/3/97 Epokinorhydrin diastomers production (Polymers and Resins II) U 95/106 3/3/97 Epokinorhydren rubber production (Polymers and Resins II) U 95/106 3/3/97 Ethylidene norbomene production (MON) FFFF 11/10/03 11/10/06 Ethylidene norbomene production (MON) FFFF 11/10/03 11/10/06 Ethylidene norbomene 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 Ferroalitys Production IIII 10/17/08 10/80/11 Flexible Polyurethane Foam Fabrication Operations IMIMMM 4/14/03 4/14/04 Fiscible Polyurethane Foam Production IIII 10/18/05 10/18/05 Fume Silica Production (Hydrochior Acid Production) NNNNN 4/17/03 4/17/06 Gasoline distribution (Stage 1) R 12/14/94 12/297 Haad chronium electroplating (Chronium Electroplating) N 1/22/94 5/12/197 Haazdous Organic NE | Engine Test Cells/Stands | | 5/27/03 | 5/27/03 |
| Lpb://dots/yournews.production (Polymers and Resins II) U 36/396 3/398 Ethylene-propylene rubber production (Polymers and Resins II) W 38/965 3/398 Ethylene-propylene rubber production (MON) FFFF 11/10/06 11/10/06 Explosives production (MON) FFFF 11/10/03 11/10/06 Explosives 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 7/12/02 Fabric Printing. Coating, & Dyeing OOOO 5/29/06 5/29/06 Fibroglass Mat Production (wet formed) HHHH 4/11/02 4/14/04 Fiscible Polyurethane Foam Production IIII 10/7/98 10/8/01 Fiscible Polyurethane Foam Production (Apdrochloric 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 12/29/4 12/29/9 Hazardous Organic NESAP F.G 4/22/94 | Enighter rest: Cells/Stands | 11111 | 0/5/06 | 3/5/07 |
| Epusy testis production (Polymers and Resins I) W 5/3/95 5/3/95 Ethyliene norbornene production (Polymers and Resins I) U 9/5/96 3/5/97 Ethyliene norbornene production (MON) FFFF 11/10/06 11/10/06 Ethyliene Processes (Generic MACT) YY 7/12/02 7/12/05 Fabric Printing, Coating, & Dyeing OOOO 5/29/08 5/29/06 Ferroalloys Production XXX 5/20/99 5/20/01 Fibergiass ML Production (wet formed) HHHH 4/11/02 4/11/05 Flexible Polyurethane Foam Fabrication Operations MMMMM 4/14/03 4/14/04 Fiction Products Manufacturing QOQQQ 10/18/05 10/18/05 Funce silica Production (Hydrochoric Acid Production) NNNNN 4/17/06 4/17/06 Halogenated solvent cleaners (Degreasing Organic Cleaners) T 12/2/94 12/2/97 Haardout Waste Combustion 9/30/30 11/2/2/94 5/12/99 Haardout Waste Combustion 9/30/99 9/30/30 11/2/2/94 5/12/99 Haardout Waste Commical Manufacturing Industry) I | Epichioronydrin elastomers production (Polymers and Resins I) | U W | 9/5/90 | 3/3/97 |
| Entyleter chooprene production (MON) FFFF 11/10/06 3/3/97 Explosives production (MON) FFFF 11/10/06 11/10/06 Explosives production (MON) FFFF 11/10/06 11/10/06 Explosives production (MON) FFFF 11/10/06 11/10/06 Envice Processes (Generic MACT) YY 7/12/02 7/12/02 Fabric Printing, Coating, & Dyeing OOOO 5/29/03 5/28/06 Ferroalitys Production (wet formed) HHHH 4/11/02 4/11/02 Fibed Polyurethane Foam Fabrication Operations MMMMM 4/14/03 4/14/04 Fiscibon 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 12/29/4 12/29/7 Hard chromium electroplating (Chromium Electroplating) N 11/25/97 11/21/94 Haydrochloric acid production (MON) FFFF 11/10/03 11/10/06 Hydroshloric acid production (MON) FFFF 11/11/103 11/10/06 <td>Epoxy resins production (Polymers and Resins II)</td> <td>VV</td> <td>3/6/95</td> <td>3/3/90</td> | Epoxy resins production (Polymers and Resins II) | VV | 3/6/95 | 3/3/90 |
| Ethyliaten endbornen production (MON) FFFF 11/10/06 Explosives production (MON) FFFFF 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 Ferralloys Production (wet formed) HHHH 4/11/02 4/11/05 Flexible Polyurethane Foam Fabrication Operations MMMMM 4/14/04 Filexible Polyurethane Foam Production III Filexible Polyurethane Foam Production III 10/7/98 10/8/02 10/8/05 Fume Silica Production (Hydrochloric Acid Production) NNNNN 4/17/06 4/17/06 Gasoline distribution (Stage 1) R 12/14/94 12/14/94 12/15/97 Halogenated solvent cleaners (Degreesing Organic Cleaners) T 12/26/95 1/25/97 Hazardous Waste Combustion | Ethylene-propylene rubber production (Polymers and Resins I) | 0 | 9/5/96 | 3/5/97 |
| Explosives production (MON) FFFF 11/10/06 Ethylene Processes (Generic MACT) YY 7/12/02 Fabric Printing, Coating, & Dyeing 0000 5/29/06 Ferroalitys Production XXX 5/20/09 Fiberglass Mat Production (wet formed) HHHH 4/11/02 Fiberglass Mat Production (wet formed) HHHH 4/11/03 Fiberglass Mat Production (Wet formed) III 10/7/98 Fiberglass Mat Production (Hydrochloric Acid Production) NNNNN 4/17/03 Finction Products Manufacturing QQQQQ 10/18/02 10/18/05 Fume Silica Production (Hydrochloric Acid Production) NNNNN 4/17/03 4/17/06 Halogenated solvent cleaners (Degreasing Organic Cleaners) T 12/2/94 12/2/97 Haard chronium electroplating (Chronium Electroplating) N 11/25/95 1/22/97 Hazardous Waste Combustion 9/30/03 9/30/03 14/22/94 5/12/09 Hydrazine production (MON) FFFF 11/10/03 11/10/06 Hydrazine production (MON) FFFF 5/12/99 6/29/02 <td< td=""><td>Ethylidene norbomene production (MON)</td><td></td><td>11/10/03</td><td>11/10/06</td></td<> | Ethylidene norbomene production (MON) | | 11/10/03 | 11/10/06 |
| Ethylene Processes (Generic MACT) YY 7/12/02 7/12/05 Fabric Printing, Coating, & Dyeing OOOO 5/29/06 5/29/06 Ferroalloys Production XXX 5/20/99 5/20/01 Fiborglass Mat Production (wet formed) HHHH 4/11/02 4/11/02 Flexible Polyurethane Foam Production III 10/17/98 10/8/01 Friction Products Manufacturing QQQQQ 10/18/02 10/18/05 Furme 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 12/16/97 Hazardous Organic NESHAP F.G 4/22/94 5/12/96 Hazardous Organic Chemical Manufacturing Industry) I 4/22/94 5/12/98 Hydrochloric acid production (MON) FFFF 11/1/10/06 4/17/06 Hydrochloric acid production (MON) FFFFF 11/1/10/06 4/17/06 Hydrochloric acid production (Generic MACT) YY 6/29/99 6/29/02 < | Explosives production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Fabric Printing, Coating, & Dyeing OOOO 5/29/03 5/29/06 Ferroalloys Production XXX 5/20/09 5/20/01 Fiberglass Mat Production (wet formed) HHHH 4/11/02 4/11/05 Fiberglass Mat Production (wet formed) HHHH 4/11/03 4/14/04 Fiexble Polyurethane Foam Froduction III 10/7/89 10/8/01 Friction Products Manufacturing QQQQQ 10/18/05 10/8/01 Friction Products Manufacturing QQQQQ 10/18/05 11/2/19/97 Gasoline distribution (Stage 1) R 12/14/94 12/15/97 Halogenated solvent cleaners (Degreasing Organic Cleaners) T 12/2/94 5/12/99 Hazardous Waste Combustion 9/30/99 9/30/03 1/42/99 5/12/99 Hazardous Organic Nemical Manufacturing Industry) I 4/22/94 5/12/99 Hydrazine production (MON) FFFF 1/11/10/03 1/11/10/06 Hydrazine production (MON) FFFF 1/2/2/94 5/12/99 Industrial Commercial and Institutional Boilers and Process DDDDD 5/20/11 3/ | Ethylene Processes (Generic MACT) | YY | 7/12/02 | 7/12/05 |
| Fabric Printing, Coating, & Dyeing OOOO 5/29/06 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 Production III 10/7/98 10/8/01 Friction Products Manufacturing QQQQQ 10/18/02 10/18/02 Fume Silica Production (Hydrochloric Acid Production) NNNNN 4/17/03 4/17/06 Gasoline distribution (Stage 1) R 12/19/94 12/15/97 Haidogenated solvent cleaners (Degreasing Organic Cleaners) T 12/294 12/297 Hard chromium electroplating (Chromium Electroplating) N 1/25/95 1/12/97 Hazardous Vaste Combustion F,G 4/22/94 5/14/01 Hydrochloric acid production (MON) FFFF 11/10/03 1/11/10/06 Hydrochloric acid production (Polymers and Resins I) U 9/36/96 3/29/97 Hydrochloric acid production (Polymers and Resins I) U 9/36/94 3/8/95 Industrial Commercial and Institutional Boilers and Process DDDDD | | | | |
| Ferroalloys Production XXX 5/2091 5/20/01 Fiberglass Mat Production (wet formed) HHHH 4/11/02 4/11/02 4/11/02 Flexible Polyurethane Foam Fabrication Operations MMMMM 4/14/03 4/14/04 Flexible Polyurethane Foam Production III 10/7/98 10/8/01 Friction Productis Manufacturing QQQQQ 10/18/02 10/18/02 10/18/05 Furme 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 11/25/95 1/25/97 Hazardous Vaste Combustion 9/30/99 9/30/03 1/25/97 Hazardous Organic NESHAP F,G 4/12/14/01 1/12/19 (Synthetic Organic Chemical Manufacturing Industry) I 4/22/94 5/12/99 Hydrazine production (Generic MACT) YY 6/29/02 1/11/10/06 Hydrazine production (Generic MACT) YY 6/29/02 1/21/14 Heaters DDDDD 5/20/11 | Fabric Printing, Coating, & Dyeing | 0000 | 5/29/03 | 5/29/06 |
| Fiberglass Mat Production (wet formed) HHH 4/11/02 4/11/05 Flexible Polyurethane Foam Production III 10/7/98 10/8/01 Fircibio Products Manufacturing QQQQQ 10/18/02 10/18/05 Fune Silica Production (Hydrochloric Acid Production) NNNNN 4/17/06 Gasoline distribution (Stage 1) R 12/14/94 12/15/97 Halogenated solvent cleaners (Degreasing Organic Cleaners) T 12/294 12/2/97 Hard chromium electroplating (Chromium Electroplating) N 1/25/95 1/25/97 Hazardous Organic NESHAP F,G 4/22/94 5/14/01 Hydrachromium electroplating Industry) I 4/22/94 5/12/99 Hydrachromium Gueroplating NNNNN 4/17/03 11/10/06 Hydrachoria acid production (MON) FFFF 11/10/03 11/10/06 Hydrachoria acid production (Polymers and Resins I) U 9/5/96 3/5/97 Industrial Coroling Towers Q 9/8/94 3/8/95 1/11/003 1/11/106 Hydrachoria and Institutional Boilers and Process DDDDD 5/20/ | Ferroalloys Production | XXX | 5/20/99 | 5/20/01 |
| Flexible Polyurethane Foam Production 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 10/18/02 Fune 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 12/294 12/297 Hard chromium electroplating (Chromium Electroplating) N 11/25/95 11/25/97 Hazardous Waste Combustion 9/30/99 9/30/03 9/30/03 Hazardous Waste Combustion 9/30/99 9/30/03 11/12/94 5/12/98 Hydrazine production (MON) FFFF 11/10/03 11/17/06 11/17/06 Hydrazine production (Goneric MACT) YY 6/29/99 6/29/02 14/22/94 5/12/98 Hydrazine production (Polymers and Resins I) U 9/5/96 3/5/97 11/10/06 Hyadon ™ production (Polymers and Resins I) U 9/5/96 3/5/97 1 | Fiberglass Mat Production (wet formed) | НННН | 4/11/02 | 4/11/05 |
| Flexible Polyurethane Foam Production III 10//7/98 10//8/01 Friction Products Manufacturing QQQQQ 10//18/02 10/18/02 10/18/05 Furme 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 11/25/95 1/25/97 Hard chromium electroplating (Chromium Electroplating) N 11/25/95 1/25/97 Hazardous Vaste Combustion 9/30/99 9/30/03 9/30/03 Hazardous Organic NESHAP F, G 4/22/94 5/11/298 Hydrachloric acid production (MON) FFFF 11/10/03 11/17/06 Hydrochloric acid production (Generic MACT) YY 6/29/92 6/29/02 Hydrochloric acid production (Polymers and Resins I) U 9/5/96 3/5/97 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 12/20/93 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 12/20/93 Industrial Dry Cleaning (Dry Cleaning) M | Flexible Polyurethane Foam Fabrication Operations | MMMMM | 4/14/03 | 4/14/04 |
| Friction Products Manufacturing QQQQQ 10/18/02 10/18/05 Fume Silica Production (Hydrochloric Acid Production) NNNN 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 11/25/95 11/25/97 Hazardous Waste Combustion 9/30/03 9/30/03 9/30/03 Hazardous Organic NESHAP F, G 4/22/94 5/14/01 (Synthetic Organic Chemical Manufacturing Industry) I 4/22/94 5/12/98 Hydrazine production (MON) FFFF 11/10/03 11/10/06 Hydrazine production (MON) FFFF 11/11/06 3/5/97 Hygalon TM production (Polymers and Resins I) U 9/5/20/11 3/21/14 Heaters DDDDD 5/20/11 3/21/14 Industrial Commercial and Institutional Boilers and Process DDDDD 5/20/03 5/20/06 Industrial Coming (Dry Cleaning) M 9/22/93 12/20/93 | Flexible Polyurethane Foam Production | III | 10/7/98 | 10/8/01 |
| Fume Silica Production (Hydrochloric Acid Production) NNNNN 4/17/03 4/17/06 Gasoline distribution (Stage 1) R 1/2/14/94 1/2/15/97 Halogenated solvent cleaners (Degreasing Organic Cleaners) T 1/2/2/94 1/2/2/97 Hard chromium electroplating (Chromium Electroplating) N 1/2/5/95 1/2/2/97 Hazardous Organic NESHAP F,G 4/2/2/94 5/1/2/99 (Synthetic Organic Chemical Manufacturing Industry) I 4/2/2/94 5/1/2/99 Hydrachloric acid production (MON) FFFF 11/10/03 1/1/10/06 Hydrochloric acid production (MON) FFFF 1/1/10/03 4/17/06 Hydrochloric acid production (Polymers and Resins I) U 9/5/96 3/5/97 Industrial Commercial and Institutional Boilers and Process DDDDD 5/20/11 3/21/14 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 12/20/93 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 12/20/93 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 12/20/93 Industrial Dry Cleaning (Dry Cleaning) | Friction Products Manufacturing | QQQQQ | 10/18/02 | 10/18/05 |
| Gasoline distribution (Stage 1) R 12/14/94 12/15/97 Halogenated solvent cleaners (Degreasing Organic Cleaners) T 12/294 12/297 Hard chromium electroplating (Chromium Electroplating) N 11/25/95 11/25/97 Hazardous Waste Combustion 9/30/99 9/30/03 9/30/03 Hazardous Organic NESHAP F,G 4/22/94 5/14/01 Hydrazine production (AON) H 4/22/94 5/12/98 Hydrazine production (MON) FFFF 11/10/03 11/10/06 Hydrogen Fluoride Production (Generic MACT) YY 6/29/99 6/29/02 Hypalon TM production (Polymers and Resins 1) U 9/5/96 3/5/97 Industrial Conmercial and Institutional Boilers and Process DDDDD 5/20/11 3/21/14 Heaters Q 9/8/94 3/8/95 1/12/093 1/10/06 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 1/2/20/93 1/12/20/93 1/12/20/93 1/2/20/93 1/2/20/93 1/2/20/93 1/10/06 1/2/20/93 1/10/05 1/2/20/93 1/10/2/2/20/2 1/2/2/93 1/10/2/2/2/2/2/20/93 1/2/20/93 1/10/2/2/2/2/2/2/ | 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 Organic NESHAP F,G 4/22/94 5/12/99 (Synthetic Organic Chemical Manufacturing Industry) I 4/22/94 5/12/98 Hydrachioric acid production (MON) FFFF 1/1/10/03 1/1/10/06 Hydrochioric acid production (Generic MACT) YY 6/29/99 6/29/02 Hydrochioric acid production (Generic MACT) YY 6/29/99 6/29/02 Hydrochioric acid production (Generic MACT) YY 6/29/99 6/29/02 Hydrochioric acid production (Polymers and Resins I) U 9/5/96 3/5/97 Industrial Cooling Towers Q 9/8/94 3/8/95 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 1/2/20/93 Industrial Cooling Towers Q 9/8/94 3/8/95 Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 1/2/2/07 | | | | |
| 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 9/30/99 9/30/03 Hazardous Organic NESHAP F.G 4/22/94 5/14/01 Kydrazine production (MON) FFFF 11/10/03 11/10/06 Hydrozhoric acid production (Generic MACT) YY 6/29/99 6/29/02 Hydrozhoric acid production (Generic MACT) YY 6/29/99 6/29/02 Hydrozhori acid production (Polymers and Resins I) U 9/3/9/6 3/3/97 Industrial Commercial and Institutional Boilers and Process DDDDD 5/20/11 3/21/14 Heaters Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 12/20/93 Industrial Cooling Towers Q 9/8/94 3/8/95 1 Industrial Dry Cleaning FFFF 5/20/03 5/20/06 1 Iron & Steel Foundries EEEE 4/22/04 4/22/07 2 Large Appliance Surface Co | Gasoline distribution (Stage 1) | R | 12/14/94 | 12/15/97 |
| Participation Partipation Participation Participat | Uplemented askight classes (Demossing Organic Classes) | – | 10/0/04 | 40/0/07 |
| Hazer Chromium electropiating (Chromium Electropiating) N 1/2/9/5 1/2/9/9 Hazerdous Waste Combustion 9/30/99 9/30/03 9/30/99 9/30/03 Hazerdous Organic NESHAP F,G 4/22/94 5/12/98 Hydrazine production (MON) FFFF 11/10/03 11/10/06 Hydrogen Fluoride Production (Generic MACT) YY 6/29/99 6/29/02 Hypalon TM production (Generic MACT) YY 6/29/99 6/29/02 Hypalon TM production (Columns and Resins I) U 9/5/96 3/5/97 Industrial, Commercial and Institutional Boilers and Process DDDDD 5/20/11 3/21/14 Heaters Q 9/8/94 3/8/95 1/12/06 Industrial Cooling Towers Q 9/8/94 3/8/95 1/2/20/93 Industrial Cooling Towers EEEEE 4/22/07 4/22/07 1/2/20/93 Large Appliance Surface Coating EEEEE 4/22/07 1/2/20/93 1/2/20/93 Large Appliance Surface Coating EE 1/2/20/02 1/2/27/05 1/2/20/05 Lime Manufacturing | Halogenated solvent cleaners (Degreasing Organic Cleaners) | | 12/2/94 | 12/2/97 |
| Hazardous Waste Combustion 9/30/99 9/30/03 Hazardous Organic NESHAP F, G 4/22/94 5/14/01 Hydrachic Corganic Chemical Manufacturing Industry) I 4/22/94 5/12/99 Hydrachic acid production (MON) FFFF 1/10/03 11/10/06 Hydrochic acid production (Generic MACT) YY 6/29/99 6/29/02 Hypalon TM production (Polymers and Resins I) U 9/5/96 3/5/97 Industrial, Commercial and Institutional Boilers and Process DDDDD 5/20/11 3/21/14 Heaters Industrial Cooling Towers Q 9/8/94 3/8/95 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 EEEEEE 4/22/04 4/22/07 Large Appliance Surface Coating TTTT 2/27/02 2/27/05 Lieme Manufacturing FFFF 11/10/03 11/10/06 Magnetic Tape Surface Coating TTTT 2/27/02 2/27/05 Lieme Anufacture of paints, coating and | Hard chromium electroplating (Chromium Electroplating) | N | 1/25/95 | 1/25/97 |
| Hazardous Organic NESHAP (Synthetic Organic Chemical Manufacturing Industry)F,G $4/22/94$ $5/14/01$ HH $4/22/94$ $5/12/98$ Hydrazine production (MON)FFFF $11/10/03$ Hydrochloric acid production (Generic MACT)NNNNN $4/17/03$ Hypalon TM production (Collegenic MACT)YY $6/29/99$ Hypalon TM production (Polymers and Resins I)U $9/5/96$ Industrial, Commercial and Institutional Boilers and ProcessDDDDD $5/20/11$ Industrial Cooling TowersQ $9/8/94$ $3/8/95$ Industrial Cooling TowersEEEEE $4/22/07$ Iron & Steel FoundriesEEEEE $4/22/04$ $4/22/07$ Large Appliance Surface CoatingTTTT $2/27/02$ $2/27/05$ Lime ManufacturingFFFF $11/10/03$ $11/10/06$ MaufacturingEEE $12/15/94$ $12/15/96$ Magnetic Tape Surface CoatingEE $12/15/94$ $12/15/96$ Maleic anhydride copolymers production (MON)FFFF $11/10/03$ $11/10/06$ ManufacturingFFFF $11/10/03$ $11/10/06$ ManufacturingSSSS $6/10/02$ $6/10/05$ Metal Can Surface CoatingKKKK $11/13/03$ $11/13/03$ Metal Can Surface CoatingRRRR $5/23/03$ $5/23/06$ Metal Coil Surface Coating< | Hazardous Waste Combustion | | 9/30/99 | 9/30/03 |
| H 4/22/94 5/12/99 I 4/22/94 5/12/99 Hydrazine production (MON) FFFF 1/1/10/03 Hydrochloric acid production NNNNN 4/17/03 Hydrogen Fluoride Production (Generic MACT) YY 6/29/99 6/29/02 Hypalon TM production (Polymers and Resins I) U 9/5/96 3/5/97 Industrial, Commercial and Institutional Boilers and Process DDDDD 5/20/11 3/21/14 Heaters Industrial Dry Cleaning (Dry Cleaning) M 9/22/93 12/20/93 Industrial Cooling Towers Q 9/8/94 3/8/95 1 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 EEEEEE 4/22/04 4/22/07 Large Appliance Surface Coating NNNN 7/23/02 7/23/05 Learber Finishing Operation TTTT 2/27/02 2/27/05 Lime Manufacturing EEE 1/11/0/03 11/10/06 Marie Capolymers pr | Hazardous Organic NESHAP | F,G | 4/22/94 | 5/14/01 |
| Image: Section of the sectin of the section of the section | (Synthetic Organic Chemical Manufacturing Industry) | H | 4/22/94 | 5/12/99 |
| Hydrazine production (MON) FFFF 11/10/03 11/10/06 Hydrochloric acid production (Generic MACT) NNNNN 4/17/03 4/17/06 Hydrogen Fluoride Production (Generic MACT) YY 6/29/99 6/29/02 Hypalon TM production (Polymers and Resins I) U 9/5/96 3/5/97 Industrial, Commercial and Institutional Boilers and Process DDDDD 5/20/11 3/21/14 Heaters 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 | | I | 4/22/94 | 5/12/98 |
| Hydrochloric acid production NNNN 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 DDDDD 5/20/11 3/21/14 Heaters DDDDD 5/20/11 3/21/14 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 2/27/05 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 Marine Vessel Loading Operations Y 9/19/95 9/19/99 Metal Can Surface Coating KKKK 11/13/03 11/10/06 Marine Vessel Loading Operations< | Hydrazine production (MON) | FFFF | 11/10/03 | 11/10/06 |
| 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 DDDDDD 5/20/11 3/21/14 Heaters N 9/22/93 12/20/93 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 2/27/105 Lime Manufacturing AAAAA 1/5/04 1/15/07 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 9/19/99 </td <td>Hydrochloric acid production</td> <td>NNNNN</td> <td>4/17/03</td> <td>4/17/06</td> | Hydrochloric acid production | NNNNN | 4/17/03 | 4/17/06 |
| Hypalon TM production (Polymers and Resins I)U9/5/963/5/97Industrial, Commercial and Institutional Boilers and ProcessDDDDD5/20/113/21/14HeatersIndustrial Dry Cleaning (Dry Cleaning)M9/22/9312/20/93Industrial Cooling TowersQ9/8/943/8/95Integrated Iron and Steel ManufacturingFFFFF5/20/035/20/06Iron & Steel FoundriesEEEEE4/22/07Large Appliance Surface CoatingNNNN7/23/027/23/05Large Appliance Surface CoatingTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Metal Can Surface CoatingIIIIII12/19/0612/19/06Matic Caning Cooling and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Can Surface CoatingRRRR5/23/035/23/06Methyloellulose productionUUUU6/11/026/11/05Metal Can Surface CoatingRRRR5/23/035/23/06Methyloellulose productionUUUU6/11/026/11/05Metal Furniture Surface CoatingRRRR <td>Hydrogen Fluoride Production (Generic MACT)</td> <td>YY</td> <td>6/29/99</td> <td>6/29/02</td> | Hydrogen Fluoride Production (Generic MACT) | YY | 6/29/99 | 6/29/02 |
| Industrial, Commercial and Institutional Boilers and ProcessDDDDD5/20/113/21/14HeatersIndustrial Dry Cleaning (Dry Cleaning)M9/22/9312/20/93Industrial Cooling TowersQ9/8/943/8/95Integrated Iron and Steel ManufacturingFFFFF5/20/035/20/06Iron & Steel FoundriesEEEEE4/22/044/22/07Large Appliance Surface CoatingNNNN7/23/027/23/05Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Coil Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylerellulose productionJJJ9/12/967/31/97(Cellulose Production Manufacturing)Cellulose Production Manufacturing)7/31/97 | Hypalon [™] production (Polymers and Resins I) | U | 9/5/96 | 3/5/97 |
| Industrial Dry Cleaning (Dry Cleaning)M9/22/9312/20/93Industrial Cooling TowersQ9/8/943/8/95Integrated Iron and Steel ManufacturingFFFFF5/20/035/20/06Iron & Steel FoundriesEEEEE4/22/044/22/07Large Appliance Surface CoatingNNNN7/23/027/23/05Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingKKKK11/13/0311/13/05Metal Purniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97 | Industrial, Commercial and Institutional Boilers and Process Heaters | DDDDD | 5/20/11 | 3/21/14 |
| Industrial Cooling TowersQ9/8/943/8/95Integrated Iron and Steel ManufacturingFFFFF5/20/035/20/06Iron & Steel FoundriesEEEEE4/22/044/22/07Large Appliance Surface CoatingNNNN7/23/027/23/05Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0611/13/03Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97(Polymers and Resins IV)F7/31/977/31/97 | Industrial Dry Cleaning (Dry Cleaning) | М | 9/22/93 | 12/20/93 |
| Integrated Iron and Steel ManufacturingFFFFF5/20/035/20/06Iron & Steel FoundriesEEEEE4/22/044/22/07Large Appliance Surface CoatingNNNN7/23/027/23/05Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0612/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05(Cellulose Production Manufacturing)HURU6/11/026/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97(Polymers and Resins IV)Surface Surface Surface7/31/97 | Industrial Cooling Towers | Q | 9/8/94 | 3/8/95 |
| Iron & Steel FoundriesEEEE4/22/044/22/07Iron & Steel FoundriesEEEEE4/22/044/22/07Large Appliance Surface CoatingNNNN7/23/027/23/05Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Marufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Coil Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97(Polymers and Resins IV)FSISI7/31/97 | Integrated Iron and Steel Manufacturing | FFFFF | 5/20/03 | 5/20/06 |
| Non a biton roundiceLarge Appliance Surface CoatingNNNN7/23/027/23/05Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Coil Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97(Polymers and Resins IV)I9/12/967/31/97 | Iron & Steel Foundries | FFFFF | 4/22/04 | 4/22/07 |
| Large Appliance Surface CoatingNNNN7/23/027/23/05Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07 | | | 1/22/01 | 1/22/01 |
| Leather Finishing OperationTTTT2/27/022/27/05Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/056/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97(Polymers and Resins IV)IV9/12/967/31/97 | Large Appliance Surface Coating | NNNN | 7/23/02 | 7/23/05 |
| Lime ManufacturingAAAAA1/5/041/5/07Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97(Polymers and Resins IV)SS7/31/97 | Leather Finishing Operation | TTTT | 2/27/02 | 2/27/05 |
| Magnetic Tape Surface CoatingEE12/15/9412/15/96Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05(Cellulose Production Manufacturing)UUUU6/11/026/11/05Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97 | Lime Manufacturing | AAAAA | 1/5/04 | 1/5/07 |
| Maleic anhydride copolymers production (MON)FFFF11/10/0311/10/06Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05(Cellulose Production Manufacturing)Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97 | Magnetic Tape Surface Coating | EE | 12/15/94 | 12/15/96 |
| Manufacture of paints, coating and adhesives (MON)FFFF11/10/0311/10/06Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05(Cellulose Production Manufacturing)JJJ9/12/967/31/97Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97 | Maleic anhydride copolymers production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Marine Vessel Loading OperationsY9/19/959/19/99Mercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05(Cellulose Production Manufacturing)Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97(Polymers and Resins IV)9/12/967/31/9711/13/0511/13/0511/13/05 | Manufacture of paints, coating and adhesives (MON) | FFFF | 11/10/03 | 11/10/06 |
| Market Vector ExtensionDifferenceMercury cell Chlor-Alkali plantsIIIII12/19/0312/19/06Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05(Cellulose Production Manufacturing)VUUU6/11/027/31/97Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97 | Marine Vessel Loading Operations | Y | 9/19/95 | 9/19/99 |
| Metal Can Surface CoatingKKKK11/13/0311/13/05Metal Coil Surface CoatingSSSS6/10/026/10/05Metal Furniture Surface CoatingRRRR5/23/035/23/06Methylcellulose productionUUUU6/11/026/11/05(Cellulose Production Manufacturing)JJJ9/12/967/31/97Methyl methacrylate-acrylonitrile-butadiene-styrene productionJJJ9/12/967/31/97 | Mercury cell Chlor-Alkali plants | | 12/19/03 | 12/19/06 |
| Metal Coil Surface Coating Metal Coil Surface Coating NMM Metal Trins/05 Metal Trins/05 Metal Coil Surface Coating SSSS 6/10/02 6/10/05 Metal Furniture Surface Coating RRR 5/23/03 5/23/06 Methylcellulose production UUUU 6/11/02 6/11/05 (Cellulose Production Manufacturing) Methyl methacrylate-acrylonitrile-butadiene-styrene production JJJ 9/12/96 7/31/97 (Polymers and Resins IV) IV IV 12/96 10/102 10/102 | Metal Can Surface Coating | KKKK | 11/13/03 | 11/13/05 |
| Metal Furniture Surface Coating SSSS 6/10/02 6/10/02 Metal Furniture Surface Coating RRRR 5/23/03 5/23/06 Methylcellulose production UUUU 6/11/02 6/11/05 (Cellulose Production Manufacturing) VUUU 6/11/02 6/11/05 Methyl methacrylate-acrylonitrile-butadiene-styrene production JJJ 9/12/96 7/31/97 (Polymers and Resins IV) V V V V | Metal Coil Surface Coating | 0000 | 6/10/02 | 6/10/05 |
| Netal Furniture Surface Coating RKKR 5/23/03 5/23/06 Methylcellulose production UUUU 6/11/02 6/11/05 (Cellulose Production Manufacturing) Image: Coating of the second | Motol Euroituro Surface Coating | | 5/22/02 | 5/02/06 |
| Methyl methacrylate-acrylonitrile-butadiene-styrene production UUUU 6/11/02 6/11/02 Methyl methacrylate-acrylonitrile-butadiene-styrene production JJJ 9/12/96 7/31/97 | | | 5/23/03 | 5/23/06 |
| Image: Cellulose Production Manufacturing) Methyl methacrylate-acrylonitrile-butadiene-styrene production JJJ 9/12/96 7/31/97 | Weuryrcenulose production | 0000 | 0/11/02 | 0/11/05 |
| (Polymers and Resins IV) | | | 0/40/00 | 7/04/07 |
| | (Polymers and Resins IV) | JJJ | 9/12/96 | //31/9/ |

Table B (continued)

| Categories of Major Sources | | Rule Promulgation | Compliance Date for Existing Sources |
|--|----------|----------------------|--|
| | Subpart | Date | (if applicable) |
| Methyl methacrylate-butadiene-styrene terpolymers production | JJJ | 9/12/96 | //31/97 |
| (Polymers and Resins IV) | | 0/4/00 | 0/4/00 |
| Mineral Wool Production | | 6/1/99 | 6/1/02 |
| Miscellaneous Coating Manufacturing | нннн | 12/11/03 | 12/11/06 |
| Miscellaneous Metal Parts and Products Surface Coating | MMMM | 1/2/04 | 1/2/07 |
| Municipal Solid Waste Landfills | AAA | 1/16/03 | 1/16/04 |
| | | 0/47/00 | 0/47/00 |
| | ннн | 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> </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 | | 5/21/01 | 5/21/04 |
| Off site Waste Recovery Operations | חח | 7/1/06 | 2/1/00 |
| Oil and natural das production | | 6/17/00 | 6/17/02 |
| Organic liquide distribution (non gasolino) | | 2/2/04 | 2/3/07 |
| Organic liquids distribution (non-gasoline) | | 2/3/04 | 11/10/06 |
| Oxydisprierioxarsine (OBFA)/1,3-diisocyariate production (MON) | | 11/10/03 | 11/10/00 |
| Paper and other webs surface coating | | 12/4/02 | 12/4/05 |
| Petroleum refineries - catalytic cracking (fluid and other) units | 0000 | | 12/1/00 |
| catalytic reforming units and sulfur plant units | UUU | 4/11/02 | 4/11/05 |
| Petroleum refineries - Other sources not distinctly listed | 222 | 8/18/95 | 8/18/98 |
| Pharmaceuticals production | | 9/21/98 | 9/21/01 |
| Phenolic resins production (Polymers and Resins III) | 000 | 1/20/00 | 1/20/03 |
| Phosphate fertilizers production | BB | 6/10/99 | 6/10/02 |
| Phosphoric acid manufacturing | <u> </u> | 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 | חחחח | 7/30/04 | 9/28/07 |
| Polyether polyols production | DDD | 6/1/00 | 6/1/02 |
| Polybutadiana rubber production (Polymers and Resins I) | 11 | 0/1/99 | 3/5/97 |
| Polycarbonates production (Ceneric MACT) | vv | 6/20/00 | 6/20/02 |
| Polycarbonates production (Generic MACT) | | 11/10/03 | 11/10/06 |
| Polyester results production (MON) | | 0/12/06 | 7/31/07 |
| Polymerized vinvlidence chloride production (POI) | | 3/12/90 | 11/10/06 |
| Polymethyl methacrylate resins production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Polystyrene production (Polymers and Posins IV) | 111 | 0/12/06 | 7/31/07 |
| Polyculfide rubber production (Polymers and Resins IV) | 11 | 9/12/90 | 3/5/07 |
| Polysumue rubber production (Folymers and Resins I) | | 9/3/90 | 11/10/06 |
| Polyvinyl acetate emulsions production (MON) | | 11/10/03 | 11/10/06 |
| Polyvinyl alcohol production (MON) | | 11/10/03 | 11/10/06 |
| Polyvinyl blorida and conclumera production | | 7/10/03 | 7/10/00 |
| Portland compart manufacturing | J | 6/14/00 | 6/10/02 |
| Primary eluminum production | | 0/14/99 | 0/10/02 |
| | | 10/7/97 | 10/7/99 |
| Primary copper smelling | | 6/12/02 | 5/12/05 |
| | | 0/4/99 | 0/4/UI |
| Printary magnesium reining | | IU/ IU/U3 | <u>10/11/04</u> |
| Printing/publishing | | 5/30/96 | 5/30/99 |
| Publicity owned treatment works | <u> </u> | 10/26/99 | 10/26/02 |
| Pulp and paper production (non-combust) MACT I | S | 4/15/98 | 4/15/01 |
| Puip and paper production (combust) (Kraft, soda, sulfite) MACT II | MM | 1/12/01 | 1/12/04 |

| Table B | (continued) |
|---------|-------------|
|---------|-------------|

| | | Rule | Compliance Date for Existing |
|--|---------|--------------|---------------------------------|
| Categories of Major Sources | | Promulgation | Sources |
| | Subpart | Date | (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 | UUUU | 6/11/02 | 6/11/05 |
| (Cellulose Production Manufacturing) | | | |
| 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 | MMM | 6/23/99 | 12/23/03 |
| Production) | | | |
| 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) | l | 12/15/95 | 12/16/96 |
| Site remediation | GGGGG | 10/8/03 | 10/9/06 |
| Sodium pentachlorophenate production (Pesticide Active | MMM | 6/23/99 | 12/23/03 |
| Ingredient Production) | | | |
| 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 |
| | XXXX | 7/9/02 | 7/11/05 |
| Tordon [™] acid production | MMM | 6/23/99 | 12/23/03 |
| (Pesticide Active Ingredient Production) | | | |
| | 10000 | 2/16/12 | 1/16/15 |
| | 00000 | 2/10/12 | 4/10/15 |
| | | | |
| 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 |

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MINNESOTA POLLUTION CONTROL AGENCY

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

CAP-GI-09D

Requirements: NSPS (40 CFR pt. 60)

Air Quality Permit Program

Doc Type: Permit Application

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

1a) AQ Facility ID No.: 00300271

1b) Agency Interest ID No.: 142152

2) Facility Name: Kings County Market

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 (<u>https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60?toc=1</u>) 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 <u>Air permit compliance forms | Minnesota Pollution Control Agency (state.mn.us)</u> for the subparts for which a checklist form has been prepared.
- 8) Return to Form CAP-GI-09D, and answer "Yes" to question 2b.

| Describe Emission | on Equipment: | | |
|--|--|--|--|
| Emission Unit Nu | umber (EQUI xxx): | | |
| Stack/Vent Num | ber (STRU xxx): | | |
| Date of Equipme | nt Manufacture: | (mm/dd/yyyy) | |
| Date of Equipme | nt Installation: | (mm/dd/yyyy) | |
| Date of Reconst | ruction (if applicable): | (mm/dd/yyyy) | |
| Date of Modificat | tion (if applicable): | (mm/dd/yyyy) | |
| Applicable 40 CF | R pt. 60 subpart or Fe | ederal Register Reference: | |
| This source is al | so subject to the gene | ral provisions of 40 CFR pt. 60, subp. A. | |
| Has this Unit Be | en Permitted Previous | ly? | |
| | No Yes, list Air Emissior | n Permit Number: | |
| Have you attach | ed a photocopied, high Yes No | nlighted version of the 40 CFR pt. 60 subpart? | |
| Describe Emission | on Equipment: | | |
| Emission Unit Nu | umber: | | |
| Stack/Vent Num | ber: | | |
| Date of Equipme | nt Manufacture: | (mm/dd/yyyy) | |
| Date of Equipme | nt Installation: | (mm/dd/yyyy) | |
| Date of Reconstruction (if applicable): | | (mm/dd/yyyy) | |
| Date of Modification (if applicable): (mm/dd/yyyy) | | (mm/dd/yyyy) | |
| Applicable 40 CF | R pt. 60 subpart or Fe | ederal Register Reference: | |
| This source is al | so subject to the gene | ral provisions of 40 CFR pt. 60, subp. A. | |
| Has this Unit Bee | en Permitted Previous No | ly? | |
| | Yes, list Air Emissior | n Permit Number: | |
| Have you attach | ed a photocopied, high Yes No | nlighted version of the 40 CFR pt. 60 subpart? | |
| Describe Emission | on Equipment: | | |
| Emission Unit Nu | umber: | | |
| Stack/Vent Num | ber: | | |
| Date of Equipme | nt Manufacture: | (mm/dd/yyyy) | |
| Date of Equipme | nt Installation: | (mm/dd/yyyy) | |
| Date of Reconst | ruction (if applicable): | (mm/dd/yyyy) | |
| Date of Modificat | Date of Modification (if applicable): (mm/dd/yyyy) | | |
| Applicable 40 CF | R pt. 60 subpart or Fe | ederal Register Reference | |
| This source is al | so subject to the gene | ral provisions of 40 CFR pt. 60, subp. A. | |
| Has this Unit Be | en Permitted Previous | ly? | |
| | NO Yes, list Air Emissior | n Permit Number: | |
| Have you attach | ed a photocopied, high Yes No | nlighted version of the 40 CFR pt. 60 subpart? | |
| https://www.weareneter | CE4 200 | | |



AIR QUALITY 520 LAFAYETTE ROAD NO., ST. PAUL, MN 55155-4194

Stratospheric Ozone Protection

(1990 Clean Air Act, as amended, Sections 601-618; 40 CFR pt. 82)

The 1990 Clean Air Act Amendments, Sections 601-618 and federal regulations located in 40 CFR pt. 82 regulate ozone depleting substances and requires a phase out of their use. Review the attached list of ozone depleting chemicals, Tables E and F. If you manufacture, sell, distribute or use any the chemicals in Tables E and F, then Sections 601-618 and 40 CFR pt. 82 apply to your facility. Please read Sections 601-618 and 40 CFR pt. 82 to determine all the requirements that apply to your facility.

- 1) After reviewing Table F check one of the following:
 - NO, my facility does not manufacture, sell, distribute or use any chemicals from the list, and the 1990 Clean Air Act, as amended, Sections 601-618 do not apply to my facility. Return to Form CAP-GI-09 Requirements, question 3b.
 YES, my facility does manufacture, sell, distribute or use one or more of the chemicals from the list. G
 - YES, my facility **does** manufacture, sell, distribute or use one or more of the chemicals from the list. Go to question 2.
- 2) Indicate below which chemicals you manufacture, sell, distribute or use; whether the chemical is Class I or Class II; and what chemical your facility will be using to replace the phased out chemical. Include additional pages if necessary:

| 2a) | 2b) | 2c) | |
|----------|-------------|---------|----------------------|
| Chemical | Class | CAS | Replacement Chemical |
| Name: | Type: | Number: | (after phase out): |
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3) Return to form CAP-GI-09 Requirements, question 3b.



CAP-GI-09I

Requirements: State Rules

Air Quality Permit Program

Doc Type: Permit Application

Facility Information–Minnesota State Air Quality (AQ) Rules

AQ Facility ID number: 00300271 Agency Interest ID number: 142152

Facility name: Kings County Market

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 |
|-------------------------------------|---|----------------------------|
| 7011.2300 | Engine | EQUI 01 |
| | | |
| | | |
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| | | 1 |

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.

https://www.pca.state.mn.us aq-f10-capqi09i • 3/7/22

Table I: Instructions for determining your particulate limit

Minnesota has a State rule for the concentration of particulate matter that may be in your exhaust stream. The unit of the standard is grains per dry standard cubic foot. You need to convert your actual exhaust flow to dry standard cubic feet per minute to find the emission limit from the rule.

Sources subject to this rule are required to meet the emission limits established at all times. These limits will vary depending on operating conditions. To determine compliance at any point in time (i.e. for a stack test), follow the steps below:

- 1. Determine the amount of dry material (subtract any water or moisture content) in pounds per hour that is processed by your equipment.
- 2. Use Table I.1 to determine your allowed emission rate based on process weight rate. If your process weight rate falls between two values on the table, interpolate or extrapolate using the equation:

$$\mathbf{E} = \mathbf{3.59} \times \left(\frac{\mathbf{P}}{\mathbf{2000}}\right)^{\mathbf{0.62}} \quad \text{for} \quad \mathbf{P} < 60,000 \text{ lbs/hour; and:}$$

$$E = 17.31 \times \left(\frac{P}{2000}\right)^{0.16}$$
 for $P > 60,000$ lbs/hour

where:

E = emission rate in lbs/hour; and

P = process weight rate in lbs/hour

- 3. If your process equipment is vented to the atmosphere, determine the airflow through your stack. Correct to 68 F and 14.7 psi, and correct to remove any moisture in the gas stream to obtain the air flow in dry standard cubic feet per minute (dscfm).
- 4. Use Table I.2 to determine your allowed concentration in grains per dry standard cubic foot (gr/dscf). Interpolate using the equation for airflow rates between 7,000 dscfm and 1,000,000 dscfm:

$$c = 1.7627 \times (FR_{corrected})^{-0.3241}$$

where:

c = concentration in gr/dscf,

FR_{corrected} = gas volume in dscfm

5. Determine which of the two emission rates calculated above is *less stringent*. To convert a concentration (calculated in step 4) to an emission rate (calculated in step 2), use the following equation:

$$\mathbf{E} = \mathbf{c} \times \mathbf{V} \times \left(\frac{60}{7000}\right)$$

where:

E = emission rate in lbs/hour;

c = concentration in gr/dscf,

V = gas volume in dscfm

| Table I.1 | | Table I.2 | | | |
|---|-------|------------------------------|----------------------------|--|--|
| Process Rate Emission Rate (Ibs/hour) (Ibs/hour) | | Source Gas Volume (dscfm) | Concentration (gr/dscf) | | |
| 100 | 0.55 | 7,000 or less | 0.100 | | |
| 500 | 1.53 | 8,000 | 0.096 | | |
| 1,000 | 2.25 | 9,000 | 0.092 | | |
| 5,000 | 6.34 | 10,000 | 0.089 | | |
| 10,000 | 9.73 | 20,000 | 0.071 | | |
| 20,000 | 14.99 | 30,000 | 0.062 | | |
| 60,000 | 29.60 | 40,000 | 0.057 | | |
| 80,000 | 31.19 | 50,000 | 0.053 | | |
| 120,000 | 33.28 | 60,000 | 0.050 | | |
| 160,000 | 34.85 | 80,000 | 0.045 | | |
| 200,000 | 36.11 | 100,000 | 0.042 | | |
| 400,000 | 40.35 | 120,000 | 0.040 | | |
| 1,000,000 | 46.72 | 140,000 | 0.038 | | |
| | | 160,000 | 0.036 | | |
| | | 180,000 | 0.035 | | |
| | | 200,000 | 0.034 | | |
| | | 300,000 | 0.030 | | |
| | | 400,000 | 0.027 | | |
| | | 500,000 | 0.025 | | |
| | | 600,000 | 0.024 | | |
| | | 800,000 | 0.021 | | |
| | | 1,000,000 or more | 0.020 | | |

Regardless of the allowable emission rates calculated from Tables I.1 and I.2, no process equipment is allowed to emit more than 0.30 grains per standard cubic foot of exhaust gas.



Attachment B

Air Emission Calculations

Potential to Emit Maximum Proposed Allowable 2023 Actual Emissions



County Market St. Francis, MN Potential to Emit Calculations Source Summary

Potential to Emit (tpy)

| Source | NOx | СО | PM | PM10 | PM2.5 | VOC | SO2 | CO2e | Single HAP | Total HAP |
|--|--------|-------|------|------|-------|--------|------|--------|------------|-----------|
| Engine | 100.97 | 57.33 | 6.75 | 3.86 | 3.75 | 6.07 | 0.10 | 11,036 | 0.02 | 0.18 |
| Gasoline Service Station | | | | | | 478.30 | | | 37.07 | 125.27 |
| Total (excluding insignificant activities) | 100.97 | 57.33 | 6.75 | 3.86 | 3.75 | 484.37 | 0.10 | 11,036 | 37.09 | 125.45 |

County Market St. Francis, MN Potential to Emit Calculations Engine

Internal Combustion of Diesel Fuel in Engines (>600 hp)

| Engine Size | 1,641 | kW |
|---------------------------------|-------|-----------|
| Engine Horsepower | 2,200 | hp |
| Brake-specific Fuel Consumption | 7,000 | Btu/hp-hr |
| Fuel Input | 15.40 | MMBtu/hr |

| | Emission Factor ¹ | Emission Factor ² | Emission Rate | Operating | Potential |
|----------------------------------|------------------------------|------------------------------|---------------|-----------|-----------------|
| Pollutant | (lb/MMBtu) | (lb/hp-hr) | (lb/hr) | Hours | Emissions (tpy) |
| NOx ³ | | | 23.05 | 8,760.00 | 100.97 |
| CO ³ | 0.85 | 5.950E-03 | 13.09 | 8,760.00 | 57.33 |
| SO ₂ | 1.52E-03 | 1.061E-05 | 0.023 | 8,760.00 | 0.10 |
| PM ³ | 0.10 | 7.000E-04 | 1.54 | 8,760.00 | 6.75 |
| PM ₁₀ ³ | 0.05730 | 4.011E-04 | 0.88 | 8,760.00 | 3.86 |
| PM _{2.5} ³ | 0.05560 | 3.892E-04 | 0.86 | 8,760.00 | 3.75 |
| voc | 0.09 | 6.300E-04 | 1.39 | 8,760.00 | 6.07 |
| CO ₂ | 163.05 | 1.14 | 2,511.03 | 8,760.00 | 10,998.32 |
| CH ₄ | 6.61E-03 | 4.63E-05 | 0.10 | 8,760.00 | 0.45 |
| N ₂ O | 1.32E-03 | 9.26E-06 | 0.02 | 8,760.00 | 0.09 |
| CO ₂ e | | | 2,519.65 | | 11,036.06 |
| Benzene | 7.76E-04 | 5.43E-06 | 0.01 | 8,760.00 | 0.05 |
| Toluene | 2.81E-04 | 1.97E-06 | 4.33E-03 | 8,760.00 | 0.02 |
| Xylenes | 1.93E-04 | 1.35E-06 | 2.97E-03 | 8,760.00 | 0.01 |
| Propylene | 2.79E-03 | 1.95E-05 | 0.04 | 8,760.00 | 0.19 |
| 1,3-Butadiene | | | | 8,760.00 | |
| Formaldehyde | 7.89E-05 | 5.52E-07 | 1.22E-03 | 8,760.00 | 5.32E-03 |
| Acetaldehyde | 2.52E-05 | 1.76E-07 | 3.88E-04 | 8,760.00 | 1.70E-03 |
| Acrolein | 7.88E-06 | 5.52E-08 | 1.21E-04 | 8,760.00 | 5.32E-04 |
| Polycyclic Aromatic Hydrocarbons | (PAH) | | | | |
| Naphthalene | 1.30E-03 | 9.10E-06 | 0.02 | 8,760.00 | 0.09 |
| Acenaphthylene | 9.23E-06 | 6.46E-08 | 1.42E-04 | 8,760.00 | 6.23E-04 |
| Acenaphthene | 4.68E-06 | 3.28E-08 | 7.21E-05 | 8,760.00 | 3.16E-04 |
| Fluorene | 1.28E-05 | 8.96E-08 | 1.97E-04 | 8,760.00 | 8.63E-04 |
| Phenanthrene | 4.08E-05 | 2.86E-07 | 6.28E-04 | 8,760.00 | 2.75E-03 |
| Anthracene | 1.23E-06 | 8.61E-09 | 1.89E-05 | 8,760.00 | 8.30E-05 |
| Fluoranthene | 4.03E-06 | 2.82E-08 | 6.21E-05 | 8,760.00 | 2.72E-04 |
| Pyrene | 3.71E-06 | 2.60E-08 | 5.71E-05 | 8,760.00 | 2.50E-04 |
| Benz(a)anthracene | 6.22E-07 | 4.35E-09 | 9.58E-06 | 8,760.00 | 4.20E-05 |
| Chrysene | 1.53E-06 | 1.07E-08 | 2.36E-05 | 8,760.00 | 1.03E-04 |
| Benzo(b)fluoranthene | 1.11E-06 | 7.77E-09 | 1.71E-05 | 8,760.00 | 7.49E-05 |
| Benzo(k)fluoranthene | 1.09E-07 | 7.63E-10 | 1.68E-06 | 8,760.00 | 7.35E-06 |
| Benzo(a)pyrene | 1.29E-07 | 9.00E-10 | 1.98E-06 | 8,760.00 | 8.67E-06 |
| Indeno(1,2,3-cd)pyrene | 2.07E-07 | 1.45E-09 | 3.19E-06 | 8,760.00 | 1.40E-05 |
| Dibenzo(a,h)anthracene | 1.73E-07 | 1.21E-09 | 2.66E-06 | 8,760.00 | 1.17E-05 |
| Benzo(g,h,i)perylene | 2.78E-07 | 1.95E-09 | 4.28E-06 | 8,760.00 | 1.88E-05 |
| TOTAL PAH | 1.06E-04 | 7.42E-07 | 1.63E-03 | 8,760.00 | 7.15E-03 |
| Total HAP | | | 0.04 | | 0.18 |

1 - Emission factors for diesel industrial engines (greater than 600 hp or 447 kW) are from AP-42, 3.4 (October 1996), except for CO2, CH4 and N2O which are from 40 CFR 98, Subpart C, Tables C-1 and C-2. The Emission Factor for NOx is based on 2024 stack testing.

2 - Emission factors were converted from lb/MMBtu to lb/hp-hr using an assumed brake specific fuel consumption (BSFC) of 7,000 Btu/hp-hr (per footnote "e" of Table 3.4-1).

County Market St. Francis, MN Potential to Emit Calculations Fuel Service Station

| PTE Throughput | |
|--|---------------|
| Hourly Underground Tank Fill ^[1] | 11,333 gal/hr |
| Dispensing Rate ^[2] | 10 gal/min |
| Gasoline Pumps | 10 pumps |
| Diesel Pumps | 4 pumps |
| Dispensing Rate | 8400 gal/hr |
| [1] Assume 45 minutes to unload around 8,500 gallons | |

[2] January 1993 dispensing rate limit in the United States

VOC Emission Calculations

| Emission Source | Emission Factor ¹ (lb/1000 gal) | Emission Rate (lb/hr) | Potential Emissions (tpy) | | |
|---|---|--------------------------|------------------------------|--|--|
| Filling Underground Tank - Balanced Submerged Filling | 0.3 | 3.40 | 11.04 | | |
| Underground tank breathing and emptying | 1.0 | 11.33 | 36.79 | | |
| Vehicle refueling - Displacement (uncontrolled) | 11.0 | 92.40 | 404.71 | | |
| Vehicle refueling - Spillage | 0.7 | 5.88 | 25.75 | | |
| Fotal 113.01 478.30 | | | | | |
| 1 - Emission Factors for Evaporative Emissions from Gasoline Service Station Operation in AP-42, Table 5.2-7 (June 2008). | | | | | |
| 2 - Assume splash filling with though a Stage 1 vapor recovery system is in place to control emissions during filling. | | | | | |

| Pollutant | Weight | t Percent ¹ | Emission Rate | Potential Emissions | |
|------------------------|----------|------------------------|---------------|---------------------|--|
| Fondant | Gasoline | Diesel | (lb/hr) | (tpy) | |
| 1,3-Butadiene | 0.0009% | | 1.02E-03 | 4.30E-03 | |
| n-Hexane | 2.22% | 0.03% | 2.51 | 10.62 | |
| 2,2,4-Trimethylpentane | 2.94% | 0.007% | 3.32 | 14.06 | |
| Benzene | 1.40% | 0.004% | 1.58 | 6.70 | |
| Toluene | 7.75% | 0.081% | 8.76 | 37.07 | |
| Xylenes | 6.56% | 0.241% | 7.41 | 31.38 | |
| Ethylbenzene | 1.49% | 0.053% | 1.68 | 7.13 | |
| Cumene | 0.22% | 0.056% | 0.25 | 1.05 | |
| 1,2,4-Trimethylbenzene | 3.00% | 0.349% | 3.39 | 14.36 | |
| Naphthalene | 0.42% | 0.285% | 0.47 | 1.98 | |
| Biphenyl | | 0.117% | 0.13 | 0.56 | |
| Styrene | 0.08% | | 0.09 | 0.37 | |
| Total | | | 29.60 | 125.27 | |

1 - From "Emissions Estimation Protocol for Petroleum Refineries", Version 3 (April 2015), Table A-1 for conventional gasoline and diesel fuel.

County Market St. Francis, MN Maximum Proposed Allowable Emissions Source Summary

Maximum Proposed Allowable Emissions (tpy)

| Source | NOx | со | PM | PM10 | PM2.5 | voc | SO2 | CO2e | Single HAP | Total HAP |
|--|------|------|------|------|-------|-------|----------|--------|------------|-----------|
| Engine | 5.76 | 3.27 | 0.39 | 0.22 | 0.21 | 0.35 | 5.83E-03 | 630 | 1.08E-03 | 0.01 |
| Gasoline Service Station | | | | | | 37.20 | | | 2.88 | 9.74 |
| Total (excluding insignificant activities) | 5.76 | 3.27 | 0.39 | 0.22 | 0.21 | 37.55 | 0.01 | 629.91 | 2.88 | 9.75 |
| Capped Permit Option 1 | 90 | 90 | 90 | 90 | N/A | 90 | 90 | 90,000 | 9 | 20 |
| Capped Permit Option 2 | 85 | 85 | 75 | 75 | N/A | 85 | 90 | 85,000 | 8 | 20 |

Option 1 Capped Permits include insignificant activities, Option 2 do not.

County Market St. Francis, MN

Maximum Proposed Allowable Emissions Engine

| Internal Combustion of Diesel Fuel in | 1 Engines (>600 hp |) |
|---------------------------------------|--------------------|-----------|
| Engine Size | 1,641 | kW |
| Engine Horsepower | 2,200 | hp |
| Brake-specific Fuel Consumption | 7,000 | Btu/hp-hr |
| Fuel Input | 15.40 | MMBtu/hr |

Maximum Proposed Allowable Hours of Operation

500.00

| | | | | | Maximum Proposed |
|----------------------------------|------------------------------|------------------------------|------------------|-----------|---------------------|
| | Emission Factor ¹ | Emission Factor ² | Emission Rate | Operating | Allowable Emissions |
| Pollutant | (lb/MMBtu) | (lb/hp-hr) | (lb/hr) | Hours | (tpy) |
| NOx ³ | | · · · · · | 23.05 | 500.00 | 5.76 |
| CO ³ | 0.85 | 5.950E-03 | 13.09 | 500.00 | 3.27 |
| SO ₂ | 1.52E-03 | 1.061E-05 | 0.023 | 500.00 | 5.83E-03 |
| PM ³ | 0.10 | 7.000E-04 | 1.54 | 500.00 | 0.39 |
| PM ₁₀ ³ | 0.05730 | 4.011E-04 | 0.88 | 500.00 | 0.22 |
| PM _{2.5} ³ | 0.05560 | 3.892E-04 | 0.86 | 500.00 | 0.21 |
| voc | 0.09 | 6.300E-04 | 1.39 | 500.00 | 0.35 |
| CO ₂ | 163.05 | 1.14 | 2.511.03 | 500.00 | 627.76 |
| CH ₄ | 6.61E-03 | 4 63F-05 | 0.10 | 500.00 | 0.03 |
| N ₂ O | 1.32E-03 | 9,26F-06 | 0.02 | 500.00 | 5.09F-03 |
| CO ₂ e | 1.011 00 | 5.202.00 | 2 519 65 | | 629.91 |
| Bonzono | 7 765-04 | 5.425-06 | 0.01 | 500.00 | 2 005-03 |
| Toluene | 2.81E-04 | 1.43L-00 | 0.01 4 33E-03 | 500.00 | 1.085-03 |
| Xylenes | 1.93E-04 | 1.37E-00 | 2.97E-03 | 500.00 | 7.435-04 |
| Pronvlene | 2 79F-03 | 1.95E-05 | 0.04 | 500.00 | 0.01 |
| 1 3-Butadiene | 2.752.05 | | | 500.00 | |
| Formaldehyde | 7.89F-05 | 5.52F-07 | 1.22F-03 | 500.00 | 3.04F-04 |
| Acetaldehyde | 2.52E-05 | 1.76E-07 | 3.88E-04 | 500.00 | 9.70E-05 |
| Acrolein | 7.88E-06 | 5.52E-08 | 1.21E-04 | 500.00 | 3.03E-05 |
| Polycyclic Aromatic Hydrocarbons | (PAH) | | | | |
| Naphthalene | 1.30E-03 | 9.10E-06 | 0.02 | 500.00 | 5.01E-03 |
| Acenaphthylene | 9.23E-06 | 6.46E-08 | 1.42E-04 | 500.00 | 3.55E-05 |
| Acenaphthene | 4.68E-06 | 3.28E-08 | 7.21E-05 | 500.00 | 1.80E-05 |
| Fluorene | 1.28E-05 | 8.96E-08 | 1.97E-04 | 500.00 | 4.93E-05 |
| Phenanthrene | 4.08E-05 | 2.86E-07 | 6.28E-04 | 500.00 | 1.57E-04 |
| Anthracene | 1.23E-06 | 8.61E-09 | 1.89E-05 | 500.00 | 4.74E-06 |
| Fluoranthene | 4.03E-06 | 2.82E-08 | 6.21E-05 | 500.00 | 1.55E-05 |
| Pyrene | 3.71E-06 | 2.60E-08 | 5.71E-05 | 500.00 | 1.43E-05 |
| Benz(a)anthracene | 6.22E-07 | 4.35E-09 | 9.58E-06 | 500.00 | 2.39E-06 |
| Chrysene | 1.53E-06 | 1.07E-08 | 2.36E-05 | 500.00 | 5.89E-06 |
| Benzo(b)fluoranthene | 1.11E-06 | 7.77E-09 | 1.71E-05 | 500.00 | 4.27E-06 |
| Benzo(k)fluoranthene | 1.09E-07 | 7.63E-10 | 1.68E-06 | 500.00 | 4.20E-07 |
| Benzo(a)pyrene | 1.29E-07 | 9.00E-10 | 1.98E-06 | 500.00 | 4.95E-07 |
| Indeno(1,2,3-cd)pyrene | 2.07E-07 | 1.45E-09 | 3.19E-06 | 500.00 | 7.97E-07 |
| Dibenzo(a,h)anthracene | 1.73E-07 | 1.21E-09 | 2.66E-06 | 500.00 | 6.66E-07 |
| Benzo(g,h,i)perylene | 2.78E-07 | 1.95E-09 | 4.28E-06 | 500.00 | 1.07E-06 |
| TOTAL PAH | 1.06E-04 | 7.42E-07 | 1.63E-03 | 500.00 | 4.08E-04 |
| Total HAPs | | | | | 0.01 |

hr

1 - Emission factors for diesel industrial engines (greater than 600 hp or 447 kW) are from AP-42, 3.4 (October 1996), except for CO2, CH4 and N2O which are from 40 CFR 98, Subpart C, Tables C-1 and C-2.

2 - Emission factors were converted from lb/MMBtu to lb/hp-hr using an assumed brake specific fuel consumption (BSFC) of 7,000 Btu/hp-hr (per footnote "e" of Table 3.4-1).

3 - 500 hours per year was used in the capped permit modeling, therefore, the facility can not go above that so it is being used for the PTE. The facility will complete new modeling and a prechange analysis if the facility ever needs to go above 500 hours per year.

County Market St. Francis, MN **Maximum Proposed Allowable Emissions Fuel Service Station**

Maximum Proposed Allowable Throughput

| Max Gasoline Throughput 2019-2023 | 2,558,105 gal/yr |
|-----------------------------------|------------------|
| Max Diesel Throughput 2019-2023 | 303,769 gal/yr |
| Safety Factor | 2 |
| Estimated Throughput | 5,723,746 gal/yr |
| Gasoline vs Diesel Throughput | |
| Gasoline % of Throughput | 88% |
| Diesel % of Throughput | 12% |

12%

VOC Emission Calculations

| Emission Source | Emission Factor ¹ (lb/1000 gal) | Maximum Proposed Allowable Emissions (tpy) | | | |
|--|---|--|--|--|--|
| Filling Underground Tank - Balanced Submerged Filling | 0.3 | 0.86 | | | |
| Underground tank breathing and emptying | 1.0 | 2.86 | | | |
| Vehicle Refuelling - Displacement | 11.0 | 31.48 | | | |
| Vehicle Refuelling - Spillage | 0.7 | 2.00 | | | |
| Total | | 37.20 | | | |
| 1. Emission Easters for Evanerative Emissions from Caseline Service Station Operation in AD 42, Table 5, 2,7 (June | | | | | |

1 - Emission Factors for Evaporative Emissions from Gasoline Service Station Operation in AP-42, Table 5.2-7 (June 2008).

2 - Assume splash filling with though a Stage 1 vapor recovery system is in place to control emissions during filling.

| Pollutant | Weig | ht Percent ¹ | Maximum Proposed Allowable |
|------------------------|----------|-------------------------|----------------------------|
| Fonutant | Gasoline | Diesel | Emissions (tpy) |
| 1,3-Butadiene | 0.0009% | | 3.35E-04 |
| n-Hexane | 2.22% | 0.03% | 0.83 |
| 2,2,4-Trimethylpentane | 2.94% | 0.007% | 1.09 |
| Benzene | 1.40% | 0.004% | 0.52 |
| Toluene | 7.75% | 0.081% | 2.88 |
| Xylenes | 6.56% | 0.241% | 2.44 |
| Ethylbenzene | 1.49% | 0.053% | 0.55 |
| Cumene | 0.22% | 0.056% | 0.08 |
| 1,2,4-Trimethylbenzene | 3.00% | 0.349% | 1.12 |
| Naphthalene | 0.42% | 0.285% | 0.15 |
| Biphenyl | | 0.117% | 0.04 |
| Styrene | 0.08% | | 0.03 |
| Total | | | 9.74 |

1 - From "Emissions Estimation Protocol for Petroleum Refineries", Version 3 (April 2015), Table A-1 for conventional gasoline and diesel fuel.

County Market St. Francis, MN 2023 Emissions Source Summary

2023 Actual Emissions (tpy)

| Source | NOx | со | PM | PM10 | PM2.5 | voc | SO2 | CO2e | Single HAP | Total HAP |
|--|------|------|------|------|-------|-------|----------|--------|------------|-----------|
| Engine | 0.68 | 0.39 | 0.05 | 0.03 | 0.03 | 0.04 | 6.88E-04 | 74 | 1.28E-04 | 0.00 |
| Gasoline Service Station | | | | | | 16.77 | | | 1.15 | 3.89 |
| Total (excluding insignificant activities) | 0.68 | 0.39 | 0.05 | 0.03 | 0.03 | 16.81 | 6.88E-04 | 74.33 | 1.15 | 3.89 |
| Capped Permit Option 1 | 90 | 90 | 90 | 90 | N/A | 90 | 90 | 90,000 | 9 | 20 |
| Capped Permit Option 2 | 85 | 85 | 75 | 75 | N/A | 85 | 90 | 85,000 | 8 | 20 |

Option 1 Capped Permits include insignificant activities, Option 2 do not.

County Market St. Francis, MN 2023 Emissions

Engine

Internal Combustion of Diesel Fuel in Engines (>600 hp)

| Engine Size | 1,641 | kW |
|---------------------------------|-------|-----------|
| Engine Horsepower | 2,200 | hp |
| Brake-specific Fuel Consumption | 7,000 | Btu/hp-hr |
| Fuel Input | 15.40 | MMBtu/hr |

2023 Hours of Operation 59.00

hr

| | | | | 2023 | Emissions |
|----------------------------------|------------------------------|------------------------------|---------------|-----------|------------------|
| | Emission Factor ¹ | Emission Factor ² | Emission Rate | Operating | Actual Emissions |
| Pollutant | (lb/MMBtu) | (lb/hp-hr) | (lb/hr) | Hours | (tpy) |
| NOx ³ | | | 23.05 | 59.00 | 0.68 |
| CO ³ | 0.85 | 5.950E-03 | 13.09 | 59.00 | 0.39 |
| SO ₂ | 1.52E-03 | 1.061E-05 | 0.023 | 59.00 | 6.88E-04 |
| PM ³ | 0.10 | 7.000E-04 | 1.54 | 59.00 | 0.05 |
| PM ₁₀ ³ | 0.05730 | 4.011E-04 | 0.88 | 59.00 | 0.03 |
| PM _{2.5} ³ | 0.05560 | 3.892E-04 | 0.86 | 59.00 | 0.03 |
| voc | 0.09 | 6.300E-04 | 1.39 | 59.00 | 0.04 |
| CO ₂ | 163.05 | 1.14 | 2,511.03 | 59.00 | 74.08 |
| CH ₄ | 6.61E-03 | 4.63E-05 | 0.10 | 59.00 | 3.00E-03 |
| N ₂ O | 1.32E-03 | 9.26E-06 | 0.02 | 59.00 | 6.01E-04 |
| CO ₂ e | | | 2,519.65 | | 74.33 |
| Benzene | 7.76E-04 | 5.43E-06 | 0.01 | 59.00 | 3.53E-04 |
| Toluene | 2.81E-04 | 1.97E-06 | 4.33E-03 | 59.00 | 1.28E-04 |
| Xylenes | 1.93E-04 | 1.35E-06 | 2.97E-03 | 59.00 | 8.77E-05 |
| Propylene | 2.79E-03 | 1.95E-05 | 0.04 | 59.00 | 1.27E-03 |
| 1,3-Butadiene | | | | 59.00 | |
| Formaldehyde | 7.89E-05 | 5.52E-07 | 1.22E-03 | 59.00 | 3.58E-05 |
| Acetaldehyde | 2.52E-05 | 1.76E-07 | 3.88E-04 | 59.00 | 1.14E-05 |
| Acrolein | 7.88E-06 | 5.52E-08 | 1.21E-04 | 59.00 | 3.58E-06 |
| Polycyclic Aromatic Hydrocarbons | (PAH) | | | | |
| Naphthalene | 1.30E-03 | 9.10E-06 | 0.02 | 59.00 | 5.91E-04 |
| Acenaphthylene | 9.23E-06 | 6.46E-08 | 1.42E-04 | 59.00 | 4.19E-06 |
| Acenaphthene | 4.68E-06 | 3.28E-08 | 7.21E-05 | 59.00 | 2.13E-06 |
| Fluorene | 1.28E-05 | 8.96E-08 | 1.97E-04 | 59.00 | 5.82E-06 |
| Phenanthrene | 4.08E-05 | 2.86E-07 | 6.28E-04 | 59.00 | 1.85E-05 |
| Anthracene | 1.23E-06 | 8.61E-09 | 1.89E-05 | 59.00 | 5.59E-07 |
| Fluoranthene | 4.03E-06 | 2.82E-08 | 6.21E-05 | 59.00 | 1.83E-06 |
| Pyrene | 3.71E-06 | 2.60E-08 | 5.71E-05 | 59.00 | 1.69E-06 |
| Benz(a)anthracene | 6.22E-07 | 4.35E-09 | 9.58E-06 | 59.00 | 2.83E-07 |
| Chrysene | 1.53E-06 | 1.07E-08 | 2.36E-05 | 59.00 | 6.95E-07 |
| Benzo(b)fluoranthene | 1.11E-06 | 7.77E-09 | 1.71E-05 | 59.00 | 5.04E-07 |
| Benzo(k)fluoranthene | 1.09E-07 | 7.63E-10 | 1.68E-06 | 59.00 | 4.95E-08 |
| Benzo(a)pyrene | 1.29E-07 | 9.00E-10 | 1.98E-06 | 59.00 | 5.84E-08 |
| Indeno(1,2,3-cd)pyrene | 2.07E-07 | 1.45E-09 | 3.19E-06 | 59.00 | 9.40E-08 |
| Dibenzo(a,h)anthracene | 1.73E-07 | 1.21E-09 | 2.66E-06 | 59.00 | 7.86E-08 |
| Benzo(g,h,i)perylene | 2.78E-07 | 1.95E-09 | 4.28E-06 | 59.00 | 1.26E-07 |
| TOTAL PAH | 1.06E-04 | 7.42E-07 | 1.63E-03 | 59.00 | 4.82E-05 |
| Total HAPs | | | | | 1.25E-03 |

1 - Emission factors for diesel industrial engines (greater than 600 hp or 447 kW) are from AP-42, 3.4 (October 1996), except for CO2, CH4 and N2O which are from 40 CFR 98, Subpart C, Tables C-1 and C-2.

2 - Emission factors were converted from lb/MMBtu to lb/hp-hr using an assumed brake specific fuel consumption (BSFC) of 7,000 Btu/hp-hr (per footnote "e" of Table 3.4-1).

3 - 500 hours per year was used in the capped permit modeling, therefore, the facility can not go above that so it is being used for the PTE. The facility will complete new modeling and a prechange analysis if the facility ever needs to go above 500 hours per

County Market St. Francis, MN 2023 Emissions Fuel Service Station

2023 Throughput

| Gasoline Throughput 2023 | 2,281,677 gal/yr |
|-------------------------------|------------------|
| Diesel Throughput 2023 | 298,144 gal/yr |
| 2023 Throughput | 2,579,821 gal/yr |
| | |
| Gasoline vs Diesel Throughput | |
| ••• | |
| Gasoline % of Throughput | 88% |

VOC Emission Calculations

| Emission Source | Emission Factor ¹ (lb/1000 gal) | 2023 Emissions (tpy) | | | | | |
|---|---|-------------------------|--|--|--|--|--|
| Filling Underground Tank - Balanced Submerged Filling | 0.3 | 0.39 | | | | | |
| Underground tank breathing and emptying | 1.0 | 1.29 | | | | | |
| Vehicle Refuelling - Displacement | 11.0 | 14.19 | | | | | |
| Vehicle Refuelling - Spillage | 0.7 | 0.90 | | | | | |
| Total | | 16.77 | | | | | |
| 1 - Emission Factors for Evaporative Emissions from Gasoline Service Station Operation in AP-42, Table 5.2- | | | | | | | |

7 (June 2008).

2 - Assume splash filling with though a Stage 1 vapor recovery system is in place to control emissions during filling.

| Pollutant | Weight | 2023 Emissions | |
|------------------------|----------|----------------|----------|
| Fondant | Gasoline | Diesel | (tpy) |
| 1,3-Butadiene | 0.0009% | | 1.33E-04 |
| n-Hexane | 2.22% | 0.03% | 0.33 |
| 2,2,4-Trimethylpentane | 2.94% | 0.007% | 0.44 |
| Benzene | 1.40% | 0.004% | 0.21 |
| Toluene | 7.75% | 0.081% | 1.15 |
| Xylenes | 6.56% | 0.241% | 0.98 |
| Ethylbenzene | 1.49% | 0.053% | 0.22 |
| Cumene | 0.22% | 0.056% | 0.03 |
| 1,2,4-Trimethylbenzene | 3.00% | 0.349% | 0.45 |
| Naphthalene | 0.42% | 0.285% | 0.07 |
| Biphenyl | | 0.117% | 0.00 |
| Styrene | 0.08% | | 0.01 |
| Total | | | 3.89 |

1 - From "Emissions Estimation Protocol for Petroleum Refineries", Version 3 (April 2015), Table A-1 for conventional gasoline and diesel fuel.



Attachment C

Ambient Air Quality Assessment

Attachment 1 CAPS Spreadsheet

Yellow cells = required inputs (for each stack/vent considered--inputs not required for unused stacks) White cells = optional inputs

All other cells locked

 Screening Date:
 4/18/2024

 AQ Facility ID No.:
 N/A

 Facility Name:
 King's County Market

 Facility Location:
 Saint Francis, MN

 Address:
 23122 St Francis Blvd NW

 Address (cont'd)
 St Francis, MN 55070

| Criteria Pollutant Screening Results Table | | | | | | | | | |
|--|----------------------|-------------------------|-----------------------------|------------------------------|--|--|--|--|--|
| Chemical | Fraction of 1-hr std | Fraction of 3-hr std | Fraction of 24-hr std | Fraction of annual std | | | | | |
| SO ₂ | 0.001 | 0.001 | 0.002 | | | | | | |
| NO ₂ | | | | 0.062 | | | | | |
| PM ₁₀ | | | 0.138 | | | | | | |

| Emissions | | Stack(s)#1 | | Stack(s)#2 | | Stack(s)#3 | | Stack(s)#4 | | Stack(s)#5 | | Stack(s)#6 | | Stack(s)#7 | |
|------------------|-----------------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|
| | Optional stack description >>> | Engine | | | | | | | | | | | | | |
| Pollutant Name | Total annual emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
| SO ₂ | | 0.023331 | | | | | | | | | | | | | |
| NO ₂ | 5.76 | | 5.7625 | | | | | | | | | | | | |
| PM ₁₀ | | 0.88242 | | | | | | | | | | | | | |

| Default Dispersion Factors | notes | Stack(s)#1 | Stack(s)#2 | Stack(s)#3 | Stack(s)#4 | Stack(s)#5 | Stack(s)#6 | Stack(s)#7 |
|--|--------------------------|-------------|------------|------------|------------|------------|------------|------------|
| Stack height | | | | | | | | |
| (1-99 m) | required for lookup | 7.571138211 | | | | | | |
| Distance to property line | | | | | | | | |
| (10-10,000 m) | required for lookup | 44.20731707 | | | | | | |
| 1-hr dispersion factor | automatic lookup | 8275 | | | | | | |
| 3-hr dispersion factor | automatic lookup | 5812 | | | | | | |
| 24-hr dispersion factor | automatic lookup | 1904 | | | | | | |
| Annual dispersion factor | automatic lookup | 232 | | | | | | |
| Optional Specific Dispersion Factors* | notes | Stack(s)#1 | Stack(s)#2 | Stack(s)#3 | Stack(s)#4 | Stack(s)#5 | Stack(s)#6 | Stack(s)#7 |
| | enter dispersion factors | | | | | | | |
| 1-hr dispersion factor | manually | 466 | | | | | | |
| | enter dispersion factors | | | | | | | |
| 3-hr dispersion factor | manually | 419.4 | | | | | | |
| | enter dispersion factors | 100.1 | | | | | | |
| 24-hr dispersion factor | manually | 186.4 | | | | | | |
| Annual dispersion factor | manually | 37.28 | | | | | | |

*Optional specific dispersion factors refers to dispersion factors developed via an external method such as the DISPERSE batch process, the SCREEN3 model or other screening or refined air dispersion modeling. After developing the dispersion factors they are entered manually on this sheet. If the optional specific dispersion factors cells are filled in, they are used preferentially over the Default Dispersion Factors lookup table values above.


Attachment D

Engine Information

