

Preamble

An Asterisk "*" throughout this document denotes legal authority, limitations and conditions which are not federally enforceable.

Concurrent Permit Actions Performed as Part of the Review and Issuance of Permit 241005600-S01

Construction Permits Issued In Conjunction with Permit 241005600-S01 under s. 285.61(8), Wis. Stats.:
None

Construction Permits Issued (After the Fact) In Conjunction with Permit 241005600-S01 under s. 285.61(8), Wis. Stats.:
None

Revised Construction Permits Issued in Conjunction with Permit 241005600-S01 under s. NR 406.11, Wis. Adm. Code:
None

Operation (CONOP) Permits Issued in Conjunction with Permit 241005600-S01 under s. 285.62(7)(b), Wis. Stats.:
00-JCH-064-OP

Revised Operation Permits Issued in Conjunction with Permit 241005600-S01 under ss. NR 407.11, 407.12, 407.13 and/or 407.14, Wis. Adm. Code:

The following permits, orders, etc. are adopted, under ss. 285.65(3), Wis. Stats., NR 406.11(1)(c) and (d), NR 407.09(2)(d) and NR 407.15(3) and (4), Wis. Adm. Code, by Permit 241005600-S01 which then becomes the primary enforceable document:
00-JCH-064-OP

Stack and Process Index

- A. S58, P78 – Five Engine Test Cells
- B. S13, P33 – Heat Treating
- C. S13, P33 – Honing
- D. S92, P92 – Powder Coating Line
- E. S40, P40 – CD Emergency Generator #1
S41, P41 – CD Emergency Generator #2

Permit Shield Unless precluded by the Administrator of the USEPA, compliance with all emission limitations in this operation permit is considered to be compliance with all emission limitations established under ss. 285.01 to 285.87, Wis. Stats., and emission limitations under the federal clean air act, that are applicable to the source if the permit includes the applicable limitation or if the Department determines that the emission limitations do not apply. The following emission limitations were reviewed in the analysis and preliminary determination and were determined not to apply to this stationary source: None

Part I The headings for the areas in the permit are defined below. The legal authority for these limitations or methods follows them in [brackets].

Pollutant — This area will note which pollutant is being regulated by the permit.

Limitations — This area will list all applicable emission limitations that apply to the source, including case-by-case limitations such as Latest Available Control Techniques (LACT), Best Available Control Technology (BACT), or Lowest Achievable Emission Rate (LAER). It will also list any voluntary restrictions on hours of operation, raw material use, or production rate requested by the permittee to limit potential to emit.

Compliance Demonstration — The compliance demonstration methods outlined in this area may be used to demonstrate compliance the associated emission limit or work practice standard listed under the corresponding *Limitations* area. The compliance demonstration area contains limits on parameters or other mechanisms that will be monitored periodically to insure compliance with the limitations. The requirement

to test as well as initial and periodic test schedules, if testing is required, will be stated here. Notwithstanding the compliance determination methods which the owner or operator of a source is authorized to use under ch. NR 439, Wis. Adm. Code, the Department may use any relevant information or appropriate method to determine a source's compliance with applicable emission limitations.

Reference Test Methods, Recordkeeping, and Monitoring Requirements — Specific USEPA Reference test methods or other approved test methods will be contained in this area and are the methods that must be used whenever testing is required. A reference test method will be listed even if no testing is immediately required. Also included in this area are any recordkeeping requirements and their frequency and reporting requirements. Accuracy of monitoring equipment and frequency of monitoring shall meet, at a minimum, the requirements of ss. NR 439.055(3) and (4), Wis. Adm. Code, as specified in Part II of this permit.

Condition Type — This column will specify other conditions that are applicable to the entire facility that may not be tied to one specific pollutant.

Conditions — Specific conditions usually applicable to the entire facility or compliance requirements.

Compliance Demonstration — This area contains monitoring and testing requirements and methods to demonstrate compliance with the conditions.

PART II — This section contains the general limitations that the permittee must abide by. These requirements are standard for most sources of air pollutants so they are included in this section with every permit.

PART I
APPLICABLE EMISSION LIMITATIONS AND REQUIREMENTS

A. S58, P78 – Five Engine Test Cells

This process consists of five motorcycle engine test cells. Exempt from construction permitting under s. NR 406.04(2), Wis. Adm. Code.

POLLUTANTS	a. LIMITATIONS – REQUIREMENTS	b. COMPLIANCE DEMONSTRATION	c. REFERENCE TEST METHODS, RECORDKEEPING AND MONITORING
1. Particulate Matter Emissions	(1) Particulate matter emissions may not exceed 0.4 pounds per 1000 pounds of exhaust gas. [s. NR 415.05(2) and s. NR 415.05(1)(o), Wis. Adm. Code]	(1) The permittee shall fire only gasoline within these cells. [s. 285.65(3), Wis. Stats.]	<p>(1) Reference Test Method for Particulate Matter Emissions: Whenever particulate matter emission testing is required, the permittee shall use USEPA Method 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 including condensable backhalf emissions (USEPA Method 202). [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) Reference Test Method for PM10 Emissions: Whenever PM10 emission testing is required, the permittee shall use USEPA Method 201 or 201A. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(3) The permittee shall keep monthly records of the amount of gasoline used for testing within these cells. [s. NR 439.04(1)(d), Wis. Adm. Code]</p>
2. Visible Emissions	(1) 20% opacity or No. 1 on the Ringlemann chart. [s. NR 431.05, Wis. Adm. Code]	(1) The compliance demonstration methods for particulate matter in I.A.1.b.(1) shall serve as the compliance demonstration methods for visible emissions. ¹ [s. NR 407.09(4)(a)3.b., Wis. Adm. Code]	<p>(1) Reference Test Method for Visible Emissions: Whenever visible emission testing is required, the permittee shall use USEPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The compliance monitoring and recordkeeping in I.A.1.c.(3) shall be considered compliance monitoring and recordkeeping for the visible emission limits. [s. NR 407.09(1)(c)1.b., Wis. Adm. Code]</p>

¹ Gasoline is a clean burning fuel. It is not expected that the visible emission limitation of 20% opacity would be exceeded while firing this fuel.

B. S13, P33 – Heat Treating

Heat treating furnaces and endothermic generators with a total heat input rate of 8.948 MMBtu per hour fired with natural gas and propane as backup. Exempt from construction permitting under s. NR 406.04(2), Wis. Adm. Code.

POLLUTANTS	a. LIMITATIONS – REQUIREMENTS	b. COMPLIANCE DEMONSTRATION	c. REFERENCE TEST METHODS, RECORDKEEPING AND MONITORING
<p>1. Particulate Matter Emissions</p>	<p>(1) Particulate matter emissions may not exceed 0.15 pound per million Btu heat input. [s. NR 415.06(2)(a), Wis. Adm. Code]</p>	<p>(1) The permittee shall only fire natural gas or propane in this process. [s. 285.65(3), Wis. Stats.]</p>	<p>(1) Reference Test Method for Particulate Matter Emissions: Whenever particulate matter emission testing is required, the permittee shall use USEPA Method 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 including condensible backhalf emissions (USEPA Method 202). [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) Reference Test Method for PM10 Emissions: Whenever PM10 emission testing is required, the permittee shall use USEPA Method 201 or 201A. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(3) The permittee shall keep monthly records which detail the amount and type of fuel used by this process.. [s. NR 439.04(1)(d), Wis. Adm. Code.]</p>
<p>2. Visible Emissions</p>	<p>(1) 20% opacity or No. 1 on the Ringlemann chart. [s. NR 431.05, Wis. Adm. Code]</p> <p>(2) When combustion equipment is being cleaned or a new fire started, emissions may exceed No. 1 of the Ringlemann chart or 20% opacity but may not exceed No. 4 of the Ringlemann chart or 80% opacity for 5 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than three times a day. [s. NR 431.05(1), Wis. Adm. Code]</p>	<p>(1) The compliance demonstration methods for particulate matter in I.B.1.b.(1) shall serve as the compliance demonstration methods for visible emissions.² [s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) Reference Test Method for Visible Emissions: Whenever visible emission testing is required, the permittee shall use USEPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The compliance monitoring and recordkeeping in I.B.1.c.(3) shall be considered compliance monitoring and recordkeeping for the visible emission limits. [s. NR 407.09(1)(c)1.b., Wis. Adm. Code]</p>

² Natural gas and propane are clean burning fuels. It is not expected that the visible emission limitation of 20% opacity would be exceeded while firing these fuels.

C. S13, P33 – Honing

Two emission units that perform the final bore on the engine cylinders using as lubricant either kerosene or a low-VOC material. Constructed/last modified before 1980.

POLLUTANTS	a. LIMITATIONS – REQUIREMENTS	b. COMPLIANCE DEMONSTRATION	c. REFERENCE TEST METHODS, RECORDKEEPING AND MONITORING
1. Volatile Organic Compounds	(1) This process is exempt from regulation under s. NR 424, Wis. Adm. Code, as volatile organic compound emissions are never greater than 15 pounds in any day from each process line. [s. NR 424.03(1)4., Wis. Adm. Code]	(1) To demonstrate compliance with the VOC emission limitation in condition I.C.1.a.(1), the permittee shall maintain the records in I.C.1.c.(2). [s. NR 407.09(4)(a)1., Wis. Adm. Code]	(1) Reference Test Method for Volatile Organic Compound Emission Rates: Whenever emission testing of volatile organic compound (VOC) emission concentrations or emission rates is required, the permittee shall use USEPA Method 18, 25, 25A or 25B. [s. NR 439.06(3)(a), Wis. Adm. Code] (2) The permittee shall keep and maintain records that document that the maximum theoretical emissions from honing do not exceed 15 pounds in any day from each process line. [s. NR 439.04(1)(d), Wis. Adm. Code]

D. S92, P92 – Powder Coating Line

This process represents a powder coating line and associated fuel-burning operations with a max. rating of 12.7 MMBtu per hour firing natural gas with propane backup. Constructed in 1995 and exempt from construction permitting under s. NR 406.04(2), Wis. Adm. Code. Elective operation permit 00-JCH-064-OP issued in 2000.

POLLUTANTS	a. LIMITATIONS – REQUIREMENTS	b. COMPLIANCE DEMONSTRATION	c. REFERENCE TEST METHODS, RECORDKEEPING AND MONITORING
<p>1. Particulate Matter Emissions</p>	<p>(1) Particulate matter emissions may not exceed 0.15 pound per million Btu heat input from fuel burning operations associated with this process. [s. NR 415.06(2)(a), Wis. Adm. Code]</p> <p>(2) The powder paint booth shall vent particulate matter emissions associated with powder coating indoors. [s. 285.65(3), Wis. Stats.]</p> <p>(3) The powder paint booth may only operate as a powder coating line. This condition has the effect of quantifying 10.0 tons of emissions which may be included within an emission reduction option program. [s. 285.65(7), Wis. Stats.]³</p>	<p>(1) The permittee shall only fire natural gas or propane in the fuel burning operations associated with this process. [s. 285.65(3), Wis. Stats.]</p> <p>(2) The permittee shall comply with the limitations of I.D.1.a.(2) by maintaining the records listed in I.D.1.c.(4). [s. 285.65(3), Wis. Stats.]</p> <p>(3) The permittee shall comply with the limitations of I.D.1.a.(3) by maintaining the records listed in I.D.1.c.(5). [s. 285.65(3), Wis. Stats.]</p>	<p>(1) Reference Test Method for Particulate Matter Emissions: Whenever particulate matter emission testing is required, the permittee shall use USEPA Method 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 including condensable backhalf emissions (USEPA Method 202). [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) Reference Test Method for PM10 Emissions: Whenever PM10 emission testing is required, the permittee shall use USEPA Method 201 or 201A. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(3) The permittee shall keep monthly records which detail the amount and type of fuel used by the fuel burning operations associated with this process. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(4) The permittee shall keep and maintain on-site technical drawings, blueprints or equivalent records to demonstrate that the powder paint booth vents indoors. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(5) The permittee shall keep and maintain material safety data sheets for each coating applied within the powder coat paint booth. [s. NR 439.04(1)(d), Wis. Adm. Code]</p>

³Emission reductions credits quantified shall be reported annually on the facility’s air emission inventory until such time that they are no longer the property of the permittee so that the amount available to the permittee remains quantifiable. [s. NR 408.06(7)(a)1., Wis. Adm. Code]

D. S92, P92 – Powder Coating Line (Continued)

POLLUTANTS	a. LIMITATIONS – REQUIREMENTS	b. COMPLIANCE DEMONSTRATION	c. REFERENCE TEST METHODS, RECORDKEEPING AND MONITORING
<p>2. Visible Emissions</p>	<p>(1) 20% opacity or No. 1 on the Ringlemann chart. [s. NR 431.05, Wis. Adm. Code]</p> <p>(2) When combustion equipment is being cleaned or a new fire started, emissions may exceed No. 1 of the Ringlemann chart or 20% opacity but may not exceed No. 4 of the Ringlemann chart or 80% opacity for 5 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than three times a day. [s. NR 431.05(1), Wis. Adm. Code]</p>	<p>(1) The compliance demonstration methods for particulate matter in I.D.1.b.(1) shall serve as the compliance demonstration methods for visible emissions.⁴ [s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) Reference Test Method for Visible Emissions: Whenever visible emission testing is required, the permittee shall use USEPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The compliance monitoring and recordkeeping in I.D.1.c.(3) shall be considered compliance monitoring and recordkeeping for the visible emission limits. [s. NR 407.09(1)(c)1.b., Wis. Adm. Code]</p>

⁴ Natural gas and propane are clean burning fuels. It is not expected that the visible emission limitation of 20% opacity would be exceeded while firing these fuels.

**E. S40, P40 – CD Emergency Generator #1 (Natural Gas/Propane)
S41, P41 – CD Emergency Generator #2 (Diesel)**

POLLUTANT	a. LIMITATIONS	b. COMPLIANCE DEMONSTRATION	c. REFERENCE TEST METHODS, MONITORING AND RECORDKEEPING
<p>1. Particulate Matter Emissions</p>	<p>(1) Particulate matter emissions may not exceed 0.50 pound per million Btu heat input. [s. NR 415.06(2)(a), Wis. Adm. Code]</p> <p>(2) This process shall operate no more than 200 hours per calendar year. [s. NR 400.02(56), Wis. Adm. Code, and s. 285.65(3), Wis. Stats.]</p>	<p>(1) The permittee shall only fire natural gas or propane in Process P40. The permittee shall only fire No. 2 fuel oil in Process P41. [s. 285.65(3), Wis. Stats.]</p> <p>(1) The permittee shall comply with the limitations of I.E.1.a.(2) by maintaining the records listed in I.E.1.c.(4). [s. 285.65(3), Wis. Stats.]</p>	<p>(1) Reference Test Method for Particulate Matter Emissions: Whenever particulate matter emission testing is required, the permittee shall use USEPA Method 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 including condensable backhalf emissions (USEPA Method 202). [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) Reference Test Method for PM10 Emissions: Whenever PM10 emission testing is required, the permittee shall use USEPA Method 201 or 201A. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(3) The permittee shall keep monthly records which detail the amount and type of fuel used by these processes. [s. NR 439.04(1)(d), Wis. Adm. Code.]</p> <p>(4) The permittee shall keep and maintain the following records for each process:</p> <ul style="list-style-type: none"> (a) Dates of operation; (b) Time of start-up; (c) An indication of whether the emergency generator was operated for testing or an emergency situation; (d) Time of shut-down; and (e) The cumulative calendar year hours of operation. [s. NR 439.04(1)(d), Wis. Adm. Code]
<p>2. Visible Emissions</p>	<p>(1) Number 1 of the Ringlemann chart or 20 percent opacity. [s. NR 431.05, Wis. Adm. Code]</p>	<p>(1) The compliance demonstration methods for particulate matter in I.E.1.b.(1) shall serve as the compliance demonstration methods for visible emissions.⁵ [s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) Reference Test Method for Visible Emissions: Whenever visible emission testing is required, the permittee shall use USEPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The compliance monitoring and recordkeeping in I.E.1.c.(3) shall be considered compliance monitoring and recordkeeping for the visible emission limits. [s. NR 407.09(1)(c)1.b., Wis. Adm. Code]</p>

⁵ Natural gas, propane, and No. 2 fuel oil are clean burning fuels. It is not expected that the visible emission limitation of 20% opacity would be exceeded while firing these fuels.

F. Other Conditions Applicable To The Entire Facility

CONDITION TYPE	a. CONDITIONS	b. COMPLIANCE DEMONSTRATION
1. Compliance Testing		<p>(1) Whenever compliance testing is required:</p> <p>(a) All testing shall be performed while the emissions unit is operating at 100% capacity. If operation at 100% capacity is not feasible, the source shall operate at a capacity level which is approved by the Department in writing. [s. NR 439.07(1), Wis. Adm. Code]</p> <p>(b) The Department shall be informed at least 20 working days prior to any compliance testing so a Department representative can witness the testing. At the time of notification an emission test plan shall also be submitted to the Department for approval. In the event the owner or operator is unable to conduct the compliance emission test on the date specified in the test plan, due to unforeseeable circumstances beyond the owner or operator's control, the owner or operator shall notify the Department within 5 business days prior to the scheduled compliance emission test date, unless otherwise approved in writing by the Department, and specify the date when the test is rescheduled. [s. NR 439.07(2) & (4), Wis. Adm. Code]</p> <p>(c) When approved by the Department, another USEPA approved Method may be substituted for the recommended test method where appropriate for the emissions unit. [s. NR 439.07(1), Wis. Adm. Code]</p> <p>(d) Two copies of the report on the tests shall be submitted to the Department for evaluation within 60 days following the tests. [s. NR 439.07(9), Wis. Adm. Code]</p>

F. Other Conditions Applicable To The Entire Facility (Continued)

CONDITION TYPE	a. CONDITIONS	b. COMPLIANCE DEMONSTRATION
<p>2. Malfunction Prevention and Abatement Plan</p>	<p>(1) The permittee shall prepare a malfunction prevention and abatement plan to prevent, detect and correct malfunctions or equipment failures which may cause any applicable emission limitation to be violated or which may cause air pollution. [s. NR 439.11, Wis. Adm. Code]</p>	<p>(1) This plan shall include but is not limited to:</p> <p>(a) Identification of the individual responsible for inspecting, maintaining and repairing the air pollution control equipment.</p> <p>(b) The maximum intervals for inspection and routine maintenance of the air pollution control equipment. The maximum interval for routine inspection and maintenance may not exceed that recommended by the manufacturer unless otherwise specified in a plan prepared under this section.</p> <p>(c) A description of the items or conditions that will be checked.</p> <p>(d) A listing of materials and spare parts that will be maintained in inventory.</p> <p>(e) A description of the corrective procedures that will be taken in the event of a malfunction or failure which results in the exceedance of the applicable emission limitation. These corrective procedures shall achieve and maintain compliance with the applicable emission limitations as expeditiously as possible but not longer than the time necessary to discontinue operation of the source consistent with safe operating procedures.</p> <p>(f) A description of the activities and maximum intervals for routine maintenance and inspection of instrumentation installed and operated to monitor the operation of air pollution control equipment as required under s. NR 439.055(1). The maximum interval for inspection and routine maintenance may not exceed that recommended by the manufacturer of the instrumentation unless otherwise specified in a plan prepared under this section.</p> <p>(g) The calibration schedule for any device which monitors either a source or air pollution control equipment operational variables. The time between calibrations may not exceed one year or as specified in a plan prepared under this section, whichever is shorter.</p> <p>(h) Such other information as the department may deem pertinent. [s. NR 439.11(1), Wis. Adm. Code]</p> <p>(2) The plan shall require that a copy of the operation and maintenance manual for the control equipment be maintained on site. [s. 285.65(7), Wis. Stats.]</p> <p>(3) A copy of the plan shall be kept at the plant and shall be updated once every five years. [s. NR 439.11(1), Wis. Adm. Code]</p>

F. Other Conditions Applicable To The Entire Facility (Continued)

CONDITION TYPE	a. CONDITIONS	b. COMPLIANCE DEMONSTRATION
<p>3. Reporting</p>	<p>(1) The facility shall submit periodic reports. [s. NR 407.09(1)(c)3., Wis. Adm. Code]</p>	<p>(1) Submit the results of monitoring or a summary of monitoring results required by this permit to the Department every 12 months.</p> <p>(a) The time periods to be addressed by the submittal are: January 1 to December 31.</p> <p>(b) The report shall be submitted to the Wisconsin Department of Natural Resources, Southeast Region Air Program⁶, 2300 Martin Luther King, Jr., Drive, P.O. Box 12436, Milwaukee, WI 53212, within 60 days after the end of each reporting period.</p> <p>(c) All deviations from and exceedances of applicable requirements shall be clearly identified in the submittal.</p> <p>(d) Each submittal shall be certified by a responsible official as to the truth, accuracy and completeness of the report. [s. NR 439.03(1)(b), Wis. Adm. Code]</p> <p>(2) Submit an annual certification of compliance with the requirements of this permit to the Wisconsin Department of Natural Resources, Southeast Region Air Program, 2300 Martin Luther King, Jr., Drive, P.O. Box 12436, Milwaukee, WI 53212.</p> <p>(a) The time period to be addressed by the report is the January 1 to December 31 period which precedes the report.</p> <p>(b) The report shall be submitted to the Southeast Region Air Program within 60 days after the end of each reporting period.</p> <p>(c) The information included in the report shall comply with the requirements of Part II, Section N of this permit.</p> <p>(d) Each report shall be certified by a responsible official as to the truth, accuracy and completeness of the report. [s. NR 439.03(1)(c), Wis. Adm. Code]</p>

⁶Attn: Mike Griffin