



AIR EMISSION PERMIT NO. 00300155- 001

IS ISSUED TO

Pentair Inc.

HOFFMAN ENCLOSURES, INC.

2100 Hoffman Way

Anoka, Anoka County, MN 55303

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit application(s):

Permit Type	Application Date
Total Facility Operating Permit (Title V)	06/15/1995
Total Facility Operating Permit (State)	11/27/2002, 3/1/06

This permit authorizes the Permittee to operate and modify the stationary sources at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500, and any additions or changes to conditions incorporated into Minnesota's State Implementation Plan (SIP) under 40 CFR § 52.1220, designated "Title I: SIP for sulfur dioxide (SO₂)" must go through the federal SIP approval process before becoming effective. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.


Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such as are enforceable by the U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: State; Limits to avoid Part 70, Part 63, and limits to avoid NSR; Title I SIP Conditions for SO₂.

Issue Date: January 31, 2008

Expiration: Non-expiring
All Title I Conditions do not expire.

Each new or revised condition designated "Title I Condition: SIP for SO₂" is not effective or enforceable until approved by the EPA as a SIP revision under Title I of the Clean Air Act.


Jeff J. Smith, Manager
Air Quality Permits Section
Industrial Division

for Brad Moore
Commissioner
Minnesota Pollution Control Agency

TDD (for hearing and speech impaired only): (651) 282-5332

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NOTICE TO THE PERMITTEE:

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition.

Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION:

This permit is a Joint Title I/SIP Federally Enforceable State Operating Permit, as it includes non-expiring Title I Conditions to implement the State Implementation Plan (SIP). Pursuant to 40 CFR pt. 50, 40 CFR pt. 51, 40 CFR § 52.1220, Minn. R. 7007.0100, subp. 25B, and Minn. R. 7007.1050, subp.4.

The facility manufactures sheet metal electrical enclosures, and contains various air emission sources. Emission sources include dryers, water heaters, paint booths, and ovens. A previous modification to the facility permit allowed the installation of an additional paint system, a Medium Enclosure Line.

The main sources of emissions are VOC's and HAP's. The permit limits the emissions of the facility such that the facility is classified as a non-major source under federal New Source Review (NSR, 40 CFR § 52.21) and federal Operating Program (40 CFR pt. 70). The facility is part of the SIP to reach attainment of SO₂ Ambient Air Quality Standards in the Anoka County area. This permit will be submitted to EPA for inclusion into the SIP, and will replace the Administrative Order upon EPA approval.

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Hoffman Enclosures Inc

Permit Number: 00300155 - 001

Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item: Total Facility

What to do	Why to do it
A. STATE IMPLEMENTATION PLAN (SIP) REQUIREMENTS	hdr
<p>ACTIVITIES NOT REQUIRING A MODIFICATION FOR THE SIP: The Permittee is authorized to make changes to the facility in compliance with Minnesota Rules and without obtaining a modification to the SIP as long as the change does not increase, from any emission point, the SO2 emission rates (in lb/hr) or overall SO2 emissions or alter equipment or parameters, which forms the basis for the SO2 modeling.</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2, NAAQS 40 CFR pt. 50; 40 CFR pt. 51, 40 CFR pt. 52, subp. Y; 40 CFR Section 52.1220. MN SIP</p>
<p>Remodeling for Attainment Demonstrate: Before making any physical changes or changes to the method of operation which may affect SO2, the Permittee shall demonstrate to the MPCA that the SO2 plume dispersion characteristics following the physical change or change in method of operation will be equivalent to or better than the SO2 dispersion characteristics modeled. The information submitted must include, at a minimum, the locations, heights, and the diameters of the stacks, locations and dimensions of nearby buildings, the velocity and temperature of the gasses emitted, and the SO2 emission rates.</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2 NAAQS; 40 CFR pt 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 52. 1220; MN SIP.</p>
<p>ACTIVITIES REQUIRING A MODIFICATION FOR THE SIP: Activities requiring a modification of the SIP prior to the Permittee commencing the activity include, but are not limited to, the following: 1. Any decrease in the design stack gas volumetric flow rate; 2. Any decrease in the design stack gas exit temperature; 3. Any reduction in stack height; 4. Any increase in stack exit diameter; 5. any construction or modification of structures that increases the effective structural dimensions as they are used in the building wake effects algorithm in the ISC Air Dispersion Model, or its successor.</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2, NAAQS 40 CFR pt. 50, 40 CFR pt. 51, 40 CFR pt. 52, subp. Y; 40 CFR Section 52.1220 MN SIP.</p>
<p>Permanent Records for SIP: The Permittee shall permanently maintain the following information together with all amendments, revisions, and modifications to this information: 1. The Permittee shall maintain a file or files of the information on design, construction and operation of each emission facility, emission source, stack, structures pertinent to modeling for downwash, and any other information required to conduct SO2 ambient air quality modeling of emissions from the facility. 2. The Permittee shall maintain a file at the facility which includes all SO2 emission compliance demonstration plans which upon approval by the MPCA or EPA become integral and enforceable parts of the SIP.</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2, NAAQS 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 52.1220; MN SIP</p>
<p>Construction and Operation of SIP Emission Units: The Permittee may begin actual construction of new emission units or modification to existing emission units upon permit issuance. However the Permittee shall not operate any new or modified emission unit until any required SIP amendment is approved by EPA.</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2, NAAQS, 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 52.1220; MN SIP.</p>
<p>Notification of Activities Changes: The Permittee may undertake certain changes to the facility without obtaining a modification to the SIP. However, if the Permittee does make a change, and if the change in any way affects maximum allowable SO2 emissions (reduces the amount or changes the concentration, size, character, velocity, direction, or location of SO2 emissions), the Permittee shall notify the Commissioner in writing at least 30 days prior to undertaking the change. The notification shall describe the change and why it does not require a modification of the SIP.</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52 subp. subp. Y; 40 CFR Section 52.1220; MN SIP</p>
<p>State Implementation Plan Recordkeeping: Retain all records at the stationary source for a period of six (6) years from the date of the required monitoring, sample, measurement, or report that corresponds with a "Title I Condition: State Implementation Plan (SIP) for SO2".</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 52.1220; MN SIP</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Hoffman Enclosures Inc

Permit Number: 00300155 - 001

<p>Annual Report for the SIP: due 30 days after end of each calendar year following Effective Date of Permit to the Commissioner. The report shall contain the following information: a record of data used in calculating and calculations of the annual SO2 emissions, a record of each startup, shutdown, and breakdown of process and a summary record of excess SO2 emissions, and sulfur content exceedances (or the Permittee shall state if no exceedances, and noncompliance conditions occurred in the calendar year). The Annual Report shall contain a record of any deviations from any Title I Condition: State Implementation Plan (SIP) for SO2 NAAQS cited conditions.</p>	<p>Title I Condition: State Implementation Plan (SIP) for SO2 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51 subp. Y; 40 CFR Section 52.1220; MN SIP</p>
<p>B. FACILITY WIDE LIMITS REQUIREMENTS</p>	<p>hdr</p>
<p>C. OPERATIONAL REQUIREMENTS</p>	<p>hdr</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Hoffman Enclosures Inc

Permit Number: 00300155 - 001

Subject Item: GP 012 Diesel Emergency Generator

Associated Items: EU 025 Emergency Generator

SV 059 167-2 Emergency Generator Exhaust

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input using 3-hour Rolling Average.	Title I Condition: State Implementation Plan (SIP) for SO ₂ , NAAQS 40 CFR pt. 50; 40 CFR pt. 52, subp. Y; MN SIP; Minn.R. 7011.2300, subp. 2.
OTHER LIMITS AND REQUIREMENTS	hdr
Fuel Type: The Permittee shall burn only No. 2 diesel fuel in the diesel engine generator..	Title I Condition: State Implementation Plan (SIP) for SO ₂ , NAAQS 40 CFR pt. 50; 40 CFR pt. 52, subp. Y; and MN SIP.
Sulfur Content of Fuel: less than or equal to 0.5 percent by weight of diesel fuel.	Title I Condition: State Implementation Plan (SIP) for SO ₂ , NAAQS 40 CFR pt. 50; 40 CFR pt. 52, sub. Y MN SIP.
Diesel Fuel Certification: The Permittee shall retain written documentation of each shipment of diesel fuel oil received for the diesel engine on this site. The written documentation shall include the following information: the sulfur content of the diesel fuel, certifying that the sulfur content did not exceed 0.5 percent by weight, and the method used to determine the sulfur content.	Title I Condition: State Implementation Plan (SIP) for SO ₂ , NAAQS 40 CFR pt. 50; 40 CFR pt. 52, subp. Y; MN SIP.
RECORDKEEPING REQUIREMENT	hdr
Recordkeeping: The Permittee shall record and maintain the fuel usage for the unit on a monthly basis by the 15th day after the completion of the month.	Title I Condition: State Implementation Plan (SIP) for SO ₂ , NAAQS 40 CFR pt. 50; 40 CFR pt. 52, subp. Y, MN SIP ; Minn. R. 7007.0800, subps. 4 and 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Hoffman Enclosures Inc

Permit Number: 00300155 - 001

Subject Item: GP 013 Diesel Fire Pump

Associated Items: EU 047 Diesel Fire Pump

SV 066 321-1 Diesel Fire Pump List

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input using 3-hour Rolling Average.	Title I Condition: State Implementation Plan (SIP) for SO ₂ NAAQS, 40 CFR pt. 50; 40 CFR pt 52, subp. Y; MN SIP; Minn. R. 7011.2300, subp. 2
B. OTHER LIMITS AND REQUIREMENTS	hdr
Fuel Type: The Permittee shall burn only No. 2 diesel fuel in the diesel fire pump.	Title I Condition: State Implementation Plan (SIP) for SO ₂ NAAQS, 40 CFR pt. 50; 40 CFR pt. 52, subp. Y; MN SIP
Sulfur Content of Fuel: less than or equal to 0.5 percent by weight of diesel fuel.	Title I Condition: State Implementation Plan (SIP) for SO ₂ NAAQS, 40 CFR pt. 50; 40 CFR pt. 52, subp. Y; MN SIP
Diesel Fuel Certification: The Permittee shall retain written documentation of each shipment of diesel fuel oil received for the diesel generator on site. The written documentation shall include the following information: the sulfur content of the diesel fuel, certifying that the sulfur content did not exceed 0.5 percent by weight and the method used to determine the sulfur content.	Title I Condition: State Implementation Plan (SIP) for SO ₂ NAAQS, 40 CFR pt. 50; 40 CFR pt. 52, subp. Y; MN SIP
RECORDKEEPING REQUIREMENT	hdr
Recordkeeping: The Permittee shall record and maintain the fuel usage for the unit on a monthly basis by the 15th day after the completion of the month.	Title I Condition: State Implementation Plan (SIP) for SO ₂ , NAAQS 40 CFR pt. 50; 40 CFR pt. 52, subp. Y, MN SIP; Minn. R. 7007.0800, subps. 4 and 5.

Appendix B: Title I Condition; State Implementation Plan (SIP) for SO2 NAAQS

Facility Name: Hoffman Enclosures

Permit Number: 00300155-001

Stack Parameters Relied Upon in Modeling to Demonstrate Compliance with National Ambient Air Quality Standards for Sulfur Dioxide

Source Name	Emission Unit Number	SV ID	Stack Height (feet) (m)	Stack Dia. (feet) (m)	Flow Rate (acfm)	Exit Temp (F)	Modeled and Maximum Heat Input (MM Btu/hr)	Control Monitoring Equipment	Allowable Fuels
Emergency Diesel Generator	025	059	8.0 2.44	0.4 0.12	3,122	820	1.2(350KW)	None	No. 2 Diesel Oil