

**AIR EMISSION PERMIT NO. 08500041- 001
IS ISSUED TO**

NEW DIMENSION PLATING
540 Third Avenue Northwest
Hutchinson, McLeod County, Minnesota 55350

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

Permit Type	Application Date
Total Facility Operating Permit	June 15, 1995

This permit authorizes the permittee to operate the stationary source 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. Terms used in the permit as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Permit Type: Federal ; Part 70
Issue Date: January 3, 2002
Expiration: January 3, 2007
All Title I Conditions do not expire.

Michael J. Tibbetts, Program Manager
Major Facilities Section
Water, Land & Compliance Lead

For Karen A. Studders, Commissioner
Minnesota Pollution Control Agency

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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. 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. 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. Certain requirements which have been determined not to apply, are listed in Table A of this permit.

FACILITY DESCRIPTION:

New Dimension Plating is located near the Crow River in Hutchinson. The facility is approximately one acre of buildings, storage facilities and grounds. The facility is a "job shop" metal finishing facility that receives parts from a variety of clients. The surface of the parts is prepared for finishing through grinding, polishing, and blasting. The prepared parts are then plated and some are coated with a clear coat of lacquer. Some parts also receive drilling and tapping.

Approximately 40 employees unload, load, transfer, prepare, plate, and coat the various parts. The facility currently operates 40 hours per week throughout the year. Potential emission sources to the air include a solvent degreaser, nickel and chrome plating, a spray booth and drying ovens. Pollution control at the facility includes a packed bed scrubber on the chrome plating operations and panel filters on the spray booth.

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/03/02

Facility Name: New Dimension Plating

Permit Number: 08500041 - 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
AIR TOXICS	hdr
The potential emission rates of air toxics as reported in the permit application and accompanying materials are above the Screening Emission Rates (SERs) for hexavalent chrome and trichloroethylene. The Permittee may conduct any of the iterative screening or remediation techniques from Section 5 of the "Air Emission Permit Writers Guide to Air Toxic Risk Evaluation" to better characterize HAP emissions, or reduce the risk below SER levels.	Minn. R. 7007.0800 Subp. 2; Minn. Stat. 116.07, subd. 4a
The Permittee shall join and participate in the National Metal Finishers Strategic Goals Program. The objective of the program is to decrease releases from, and increase efficiency of, metal finishers by reducing the quantities of hazardous chemicals, water and electricity used per product, and to more efficiently recycle remaining waste.	Minn. R. 7007.0800 Subp. 2; Minn. Stat. 116.07, subd. 4a
OPERATIONAL REQUIREMENTS	hdr
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit.	Minn. R. 7017.2025
MONITORING REQUIREMENTS	hdr
Monitoring Equipment: Install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring equipment is not installed and operational on the date the permit is issued.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
RECORDKEEPING	hdr
Recordkeeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007.0800, subp. 5(B)
REPORTING	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Notification of New and Reconstructed Sources: Notify the Administrator as soon as practicable before the construction or reconstruction commences for any hard or decorative chromium electroplating units or facilities.	40 CFR 63.345
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS

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MISCELLANEOUS REQUIREMENTS	hdr
The owner or operator of an existing area source that increases actual or potential emissions of hazardous air pollutants such that the area source becomes a major source must comply with the provisions for existing major sources, including the reporting provisions of 40 CFR 63.347(g), immediately upon becoming a major source.	40 CFR 63.343(A)(3)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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Subject Item: GP 001 Hard Chrome Tanks**Associated Items:** EU 006 Hard Chrome Tank 1

EU 007 Hard Chrome Tank 2

What to do	Why to do it
PART 63 GENERAL PROVISIONS	hdr
General provisions of Part 63 applicable to Subpart N are provided in Table 1 to Subpart N of Part 63	40 CFR Section 63
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 3.0 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. This limit applies to each hard chrome tank individually.	Minn. R. 7011.0715, Subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1(A)
Chromium compounds: less than or equal to 0.03 milligrams/DSCM (1.3x10 ⁻⁵ gr/dscf) of total chromium in the exhaust gas stream discharged to the atmosphere. This limit applies to each hard chrome plating tank individually.	40 CFR Section 63.342(c)(1)(ii)
POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain the plating tanks, scrubber system and associated control devices at all times that the hard chrome plating tanks, EU006 and EU007 are operating.	40 CFR 63.342(c)(1)(ii)
MONITORING TO DEMONSTRATE CONTINUOUS COMPLIANCE	hdr
The permittee shall monitor and record the packed bed scrubber system pressure drop at the scrubber system inlet at least once each day of operation.	40 CFR 63.343(c)(2)(ii)
Pressure Drop: The packed bed scrubber system shall be operated within 10% of the velocity pressure value established during the initial performance test, and within + or - 1 inches of water column of the pressure drop value established during the latest performance test showing compliance, or shall be operated within the range of compliant operating parameter values established during multiple performance tests.	40 CFR 63.343(c)(2)(ii)
WORK PRACTICE STANDARDS	hdr
The permittee is subject to the Work Practice Standards of 40 CFR Part 63.342(f). The Work Practice Standards of 40 CFR Part 63.342(f), current as of permit issuance, are included below.	40 CFR 63.342(f)
At all times, including periods of startup, shutdown, and malfunction, owners and operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance (O&M) plan required by 40 CFR 63.342(f)(3).	40 CFR 63.342(f)(1)(i)
Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the O&M plan required by 40 CFR 63.342(f)(3).	40 CFR 63.342(f)(1)(ii)
Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.	40 CFR 63.342(f)(1)(iii)
Determination of whether acceptable O&M procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source.	40 CFR 63.342(f)(2)(i)
Based on the results of a determination made under 40 CFR 63.342(f)(2)(i), the Administrator may require that the permittee make changes to the operation and maintenance plan required by 40 CFR 63.342(f)(3). Revisions may be required if the Administrator finds that the plan: (A) does not address a malfunction that has occurred; (B) fails to provide for the operation of the source, the air pollution control techniques, or the control system or the process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or (C) does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as possible.	40 CFR 63.342(f)(2)(ii)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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Prepare an O&M plan within 30 days if not completed at the time of permit issuance. The plan shall include the following elements: (A) the plan shall specify the O&M criteria for the unit, the add-on air pollution control device, and the process and control system monitoring equipment, and shall include a standardized checklist to document the O&M of the unit; (B) the plan shall incorporate the work practice standards for any air pollution control or monitoring equipment; (C) proposed work practice standards for any air pollution control device or monitoring equipment not listed in 40 CFR 63.342 Table 1; (D) procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and (E) a systematic procedure for identifying malfunctions of process equipment, air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.	40 CFR 63.342(f)(3)(i)
If the O&M plan fails to address an event that meets the characteristics of a malfunction at the time the plan is developed, the permittee shall revise the O&M plan within 45 days after such an event occurs.	40 CFR 63.342(f)(3)(ii)
Recordkeeping associated with the O&M plan is identified in 40 CFR 63.346(b). Reporting associated with the O&M plan is identified in 40 CFR 63.347(g) and (h) and 40 CFR 63.342(f)(3)(iv).	40 CFR 63.342(f)(3)(iii)
If action taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the O&M plan, the permittee shall record the actions taken for that event and shall report by phone such actions within two working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven working days after the end of the event, unless the permittee makes alternate reporting arrangements with the Administrator in advance.	40 CFR 63.342(f)(3)(iv)
The permittee shall keep the written O&M plan on record after it is developed to be made available for inspection, upon request, for the life of the unit or until the unit is no longer subject to the provisions of this subpart. If the O&M plan is revised, the permittee shall keep previous versions of the O&M plan on record for a period of five years after each revision to the plan.	40 CFR 63.342(f)(3)(v)
The permittee may use applicable standard operating procedures manuals, OSHA plans, or other existing plans to satisfy the O&M plan requirement, provided the alternative plans meet the requirements of this section.	40 CFR 63.342(f)(3)(vi)
RECORDKEEPING REQUIREMENTS	hdr
Fulfill all recordkeeping requirements outlined in 40 CFR 63.346 and in the General Provisions to 40 CFR part 63, according to the applicability of Subpart A as identified in Table 1 of Subpart N.	40 CFR 63.346(a)
Maintain the following applicable records for EU006 and EU007: (1) inspection records for any air pollution control device and monitoring equipment, (2) records of all maintenance performed on EU006 and EU007 or pollution control or monitoring device, (3) records of the occurrence, duration, and cause of each malfunction of EU006 and EU007 or pollution control or monitoring device, (4) actions taken during periods of malfunction, (5) other records or checklists necessary to demonstrate consistency with the O&M plan, (6) test reports, (7) performance test conditions, (8) monitoring data, (9) all periods of excess emissions that occur during malfunction, (10) all periods of excess emissions that occur during periods other than malfunctions, (11) operating time	40 CFR 63.346(b)
REPORTING	hdr
The owner or operator of an affected source shall notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the test is scheduled to begin to allow the Administrator to have an observer present during the test. Observation of the performance test by the Administrator is optional.	40 CFR 63.347(d)
The owner or operator of an affected source that is located at a major source site shall submit a summary report to the Administrator to document the ongoing compliance status of the affected source. The report shall contain the information identified in 40 CFR 63.347(g)(3), and shall be submitted semiannually except when: (i) The Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source; or (ii) The monitoring data collected by the owner or operator of the affected source in accordance with 40 CFR 63.343(c) show that the emission limit has been exceeded, in which case quarterly reports shall be submitted. Once an owner or operator of an affected source reports an exceedance, ongoing compliance status reports shall be submitted quarterly until a request to reduce reporting frequency under 40 CFR 63.347(g)(2) is approved.	40 CFR 63.347(g)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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<p>The owner or operator of an affected source for which compliance monitoring is required in accordance with 40 CFR 63.343(c) shall prepare a summary report to document the ongoing compliance status of the source. The report must contain the following information:</p> <p>(i) The company name and address of the affected source;</p> <p>(ii) An identification of the operating parameter that is monitored for compliance determination, as required by 40 CFR 63.343(c);</p> <p>(iii) The relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status required by 40 CFR 63.347(e);</p> <p>(iv) The beginning and ending dates of the reporting period;</p> <p>(v) A description of the type of process performed in the affected source;</p> <p>(vi) The total operating time of the affected source during the reporting period;</p> <p>(continued)</p>	40 CFR 63.347(g)(3)
<p>(vii) If the affected source is a hard chromium electroplating tank and the owner or operator is limiting the maximum cumulative rectifier capacity in accordance with 40 CFR 63.342(c)(2), the actual cumulative rectifier capacity expended during the reporting period, on a month-by-month basis;</p> <p>(viii) A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;</p> <p>(continued)</p>	40 CFR 63.347(g)(3) (continued)
<p>(ix) A certification by a responsible official, as defined in 40 CFR 63.2, that the work practice standards in 40 CFR 63.342(f) were followed in accordance with the operation and maintenance plan for the source;</p> <p>(x) If the operation and maintenance plan required by 40 CFR 63.342(f)(3) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report(s) required by 40 CFR 63.342(f)(3)(iv) documenting that the operation and maintenance plan was not followed;</p> <p>(xi) A description of any changes in monitoring, processes, or controls since the last reporting period;</p> <p>(xii) The name, title, and signature of the responsible official who is certifying the accuracy of the report; and</p> <p>(xiii) The date of the report.</p>	40 CFR 63.347(g)(3) (continued)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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Facility Name: New Dimension Plating

Permit Number: 08500041 - 001

Subject Item: GP 002 Grinders**Associated Items:** EU 001 Grinder 1

EU 002 Grinder 2

EU 003 Grinder 3

EU 004 Grinder 4

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0710, subp. 1(A)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0710, subp. 1(B)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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Permit Number: 08500041 - 001

Subject Item: GP 003 Buffers**Associated Items:** EU 010 Buffer 1

EU 011 Buffer 2

EU 012 Buffer 3

EU 013 Buffer 4

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0710, subp. 1(A)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0710, subp. 1(B)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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Subject Item: EU 005 Degreaser

What to do	Why to do it
DESIGN REQUIREMENTS	hdr
The cleaning machine shall have an idling and downtime mode cover that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, and other defects.	40 CFR Section 63.463(a)(1)(i)
The vapor degreaser shall have freeboard ratio of 0.75 or greater.	40 CFR Section 63.463(a)(2)
The vapor degreaser shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 11 feet per minute or less from the initial loading of the parts through removal of cleaned parts.	40 CFR Section 63.463(a)(3)
The vapor degreaser shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser or if the sump liquid solvent level drops to the sump heater coils	40 CFR Section 63.463(a)(4) and (5)
The vapor degreaser shall have a primary condenser.	40 CFR Section 63.463(a)(6)
Control Combination Option 6, a freeboard refrigeration device and a freeboard ratio of 1.0, shall be used.	40 CFR section 63.463(b)(1)
WORK PRACTICE STANDARDS	hdr
Control Air disturbances across the cleaning machine opening(s) by incorporating the following control equipment or techniques: (i) cover(s) to each solvent cleaning machine shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place; (ii) a reduced room draft as described in 63.463(e)(2)(ii)	40 CFR Section 63.463(d)(1)
The parts baskets or the parts being cleaned in an open-top batch vapor cleaning machine shall not occupy more than 50% of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 0.9 meters per minute (3ft/min) or less.	40 CFR Section 63.463(d)(2)
Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine).	40 CFR Section 63.463(d)(3)
Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved.	40 CFR Section 63.463(d)(4)
Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped.	40 CFR Section 63.463(d)(5)
During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.	40 CFR Section 63.463(d)(6)
During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.	40 CFR Section 63.463(d)(7)
When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.	40 CFR Section 63.463(d)(8)
Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the MPCA's satisfaction to achieve the same or better results as those recommended by the manufacturer.	40 CFR Section 63.463(d)(9)
Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning operating procedures, if requested during an inspection.	40 CFR Section 63.463(d)(10)
Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.	40 CFR Section 63.463(d)(11)
Sponges, fabric, wood, and paper products shall not be cleaned.	40 CFR Section 63.463(d)(12)
MONITORING	hdr
If a freeboard refrigeration device is used to comply with these standards, the Permittee shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode.	40 CFR 63.466(a)(1)
The Permittee shall conduct a visual inspection to determine if the working mode cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects.	40 CFR 63.466(b)(1)

TABLE A: LIMITS AND OTHER REQUIREMENTS

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Monitor hoist speed quarterly. If an exceedance of hoist speed occurs during quarterly monitoring, the monitoring frequency becomes monthly until one year of compliance without an exceedance is demonstrated.	40 CFR 63.466(c)
RECORDKEEPING	hdr
The owner or operator of a batch vapor cleaning machine complying with 40 CFR Section 63.463 shall maintain the following records in written or electronic form for the lifetime of the machine: (1) owners manuals or written maintenance and operating procedures, (2) the date of installation for the solvent cleaning machine and all of its control devices, (3) if a dwell is used to comply with these standards, records of the tests required in 40 CFR Section 63.465(d) to determine an appropriate dwell time for each part or part basket (4) for units complying with the idling emission standards, maintain records of the initial performance test, including the idling emission rates and the values of monitoring parameters measured during the test, (5) records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of this subpart.	40 CFR Section 63.467(a)
The owner or operator of a batch vapor cleaning machine complying with 40 CFR Section 63.463 shall maintain the following records in written or electronic form for a period of five years: (1) the results of control device monitoring required under 40 CFR Section 63.466, (2) information on the actions taken to comply with 40 CFR Section 63.463(e) and (f), (3) estimates of annual solvent consumption for each solvent cleaning machine.	40 CFR Section 63.467(b)
REPORTING	hdr
The owner or operator of an existing solvent cleaning machine subject to the provisions of Subpart T shall submit an initial notification within 30 days of permit issuance if this notification has not been submitted. This report shall include the following: (1) the name and address of the owner or operator, (2) the address of the solvent cleaning machine, (3) a brief description of the solvent cleaning machine including machine type, solvent/air interface area, and existing controls, (4) the date of installation or a letter certifying that the machine was installed prior to, or after, November 29, 1993, (5) the anticipated compliance approach for each machine, (6) an estimate of annual halogenated HAP solvent consumption for each machine.	40 CFR Section 63.468(a)
The owner or operator of a new solvent cleaning machine subject to Subpart T shall submit an initial notification letter to the Administrator within 30 days of permit issuance if this notification has not been submitted. This report shall include all of the information required in CFR Section 63.5(d)(1) and: (1) a brief description of the solvent cleaning machine including machine type, solvent/air interface area, and existing controls, (2) the anticipated compliance approach for each machine, (3) and an estimate of annual halogenated HAP solvent consumption for each machine.	40 CFR Section 63.468(b)
The owner or operator of a batch vapor cleaning machine complying with 40 CFR Section 63.463 shall submit to the Administrator an initial statement of compliance for each solvent cleaning machine if the statement has not been submitted. The statement shall include the requirements specified in 40 CFR Section 63.468(d)(1) to (d)(6).	40 CFR Section 63.468(d)

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/03/02

Facility Name: New Dimension Plating

Permit Number: 08500041 - 001

Subject Item: EU 008 Dec Chromium Tank

What to do	Why to do it
A decorative chromium plating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping and reporting requirements of 40 CFR 63.346(b)(14) and 40 CFR 63.347(i). The wetting agent must be an ingredient in the trivalent chromium bath components purchased from vendors.	40 CFR 63.342(e)
Records shall be maintained on-site of the bath components purchased, with the wetting agent clearly identified as a bath constituent contained in one of the components.	40 CFR 63.346(b)(14)
Within 30 days of a change to the trivalent chromium plating process, submit a report that includes the information required by 40 CFR 63.347(i)(3).	40 CFR 63.347(i)

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/03/02

Facility Name: New Dimension Plating

Permit Number: 08500041 - 001

Subject Item: EU 009 Spray Booth**Associated Items:** CE 007 Mat or Panel Filter

What to do	Why to do it
Material Usage: less than or equal to 1000 gallons/year using 12-month Rolling Sum based on purchasing, inventory and usage records for VOC and HAP containing materials in the Spray Booth.	Title I Condition: Limit to avoid classification as a major source under 40 CFR 52.21; and to avoid major source classification under 40 CFR 63.2
The Permittee shall record the amount of VOC and HAP containing materials used by the 15th of the month for the previous calendar month.	Title I Condition: Limit to avoid classification as a major source under 40 CFR 52.21; and to avoid major source classification under 40 CFR 63.2
By the 15th of each month the Permittee shall calculate the amount of VOC and HAP containing materials for the previous 12 calendar months.	Title I Condition: Limit to avoid classification as a major source under 40 CFR 52.21; and to avoid major source classification under 40 CFR 63.2
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5, and 14
Corrective Actions: If the filters or any of their components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Operation and Maintenance of Filters: The Permittee shall operate and maintain each filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14

TABLE B: SUBMITTALS

01/03/02

Facility Name: New Dimension Plating
Permit Number: 08500041 - 001

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send any application for a permit or permit amendment to:

Permit Technical Advisor
Permit Section
Air Quality Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Also, where required by an applicable rule or permit condition, send to the Permit Technical Advisor notices of:

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Unless another person is identified in the applicable Table, send all other submittals to:

Supervisor
Compliance Determination Unit
Air Quality Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

01/03/02

Facility Name: New Dimension Plating
Permit Number: 08500041 - 001

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility

TABLE B: RECURRENT SUBMITTALS

01/03/02

Facility Name: New Dimension Plating

Permit Number: 08500041 - 001

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. The owner or operator of a batch vapor cleaning machine shall submit an exceedance report to the Administrator semiannually except when the Administrator determines that more frequent reporting is necessary to accurately assess the compliance status or, an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The report shall include the applicable information in 40 CFR Section 63.468(h)(1) to (3).	EU005
Annual Report	due 32 days after end of each calendar year following Initial Startup. The owner or operator of a batch vapor cleaning machine complying with 40 CFR Section 63.463 shall submit an annual report by February 1 of each year following the one for which the report is being made. This report shall include the following: (1) a signed statement from the owner or operator stating that, "all operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test in 40 CFR Section 63.463(d)(10).", (2) an estimate of the solvent consumption for each solvent cleaning machine during the reporting period.	EU005
Compliance Certification	due 31 days after end of each calendar year following Permit Issuance (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 08500041-001

This technical support document is for all the interested parties of the draft permit. The purpose of this document is to set forth the legal and factual basis for the draft permit conditions, including references to the applicable statutory or regulatory provisions.

1. General Information

1.1. Applicant and Stationary Source Location:

Owner and Operator Address and Phone Number (list both if different)	Facility Address (SIC Code: 3471)
New Dimension Plating 540 3 rd Avenue NW Hutchinson, MN 55350	540 3rd Ave NW Hutchinson McLeod County

1.2. Description of the facility

New Dimension Plating is located near the Crow River in Hutchinson. The facility is approximately one acre of buildings, storage facilities and grounds. The facility is a “job shop” metal finishing facility that receives parts from a variety of clients. The surface of the parts is prepared for finishing through grinding, polishing, and blasting. The prepared parts are then plated and some are coated with a clear coat of lacquer. Some parts also receive drilling and tapping.

Approximately 40 employees unload, load, transfer, prepare, plate, and coat the various parts. The facility currently operates 40 hours per week throughout the year. Potential emission sources to the air include a solvent degreaser, nickel and chrome plating, a spray booth and drying ovens. Pollution control at the facility includes a packed bed scrubber on the chrome plating operations and panel filters on the spray booth.

1.3. Description of any changes allowed with this permit issuance and amendments issued since the issuance of the last total facility permit and to be included in the Part 70 Permit.

This is the first total facility permit issued for this facility

1.4. Facility Emissions:

Table 1. Total Facility Potential to Emit Summary:

EU or GP #	SV#	Emission Unit Description	PM tpy	PM10 tpy	SO2 tpy	NOx tpy	CO tpy	VOC tpy	Single HAP tpy	All HAPs tpy
GP 001		Hard Chrome Tanks	0.47	0.47	-	-	-	-	0.2234	0.06
GP 002		Grinders	3.9	2.0	-	-	-	-	-	-
GP 003		Buffers	0.4	0.4	-	-	-	-	-	-
EU 005		Degreaser	0	0	-	-	-	15.7	43.8	43.8
EU 008		Decorative Chrome Tank	0.13	0.13	-	-	-	-	0.0657	0.29
EU 009		Spray Booth	31.1	2.6	-	-	-	106	60.3	80.4
EU 006 to 008		Electroplating	3.1	3.1	3.1		1.04		1.92	2.06
FS		Fugitive Sources	-	-	-	-	-	-	3.745	3.745

	PM tpy	PM10 tpy	SO2 tpy	NOx tpy	CO tpy	VOC tpy	Single HAP tpy	All HAPs tpy
Total Facility Limited Potential Emissions	1.1	1.6	-	-	-	7.6	5.9	24
Total Facility Actual Emissions	0.78	0.98	-	0.19	-	2.0	1.5	2.58

Table 2. Facility (TF) and Permit Classification

Classification (put x in appropriate box)	Major/Affected Source	*Synthetic Minor	*Minor
PSD (list pollutant)			X
NAAR (list pollutant)			X
Part 70 Permit Program (list pollutant)	Part 63 NESHAPs		

* Refers to potential emissions that are less than those specified as major by 40 CFR 52.21, 40 CFR pt. 51 Appendix S, and 40 CFR pt. 70.

2. Regulatory and/or Statutory Basis

Summary Regulatory and/or Statutory Basis of the Emission or Operational Limit

Regulatory Overview of Facility

EU, GRP, or SV #	Applicable Regulations	Comments:
GP001 and EU008	40 CFR 63.340	National Emission Standards for Chromium Emissions from Hard Chrome Electroplating Tanks
GP002 and GP003	Minn. R. 7011.0710	Standards of Performance for Pre-1969 Industrial Process Equipment
EU005	40 CFR 63.463	National Emission Standards for Halogenated Solvent Cleaning
EU009	40 CFR 63.2 Minn. R. 7011.0715	Limits to avoid major source classification under 40 CFR 63.2. Standards of Performance for Post-1969 Industrial Process Equipment

3. Technical Information

In working with metal finishing facilities in Minnesota over the last several years it has been noted that there are several factors that they have in common that cause potential environmental concerns. One is that they seem to be located in close proximity to residential areas. Second, they handle a wide variety of hazardous materials. Third, their air emissions have odors and irritating characteristics associated with them. Fourth, most have had multimedia environmental concerns including hazardous waste, wastewater, ground water, and air. Fifth, metal finishing facilities have had a history of complaints from the public.

For these reasons, the Minnesota Pollution Control Agency (MPCA) has required the Permittee to participate in the National Metal Finishers Strategic Goals Program (SGP). According to MPCA records, the Permittee was a member of the SGP at the time of permit issuance. The objective of this program is to decrease releases from, and increase efficiency of metal finishers by reducing the quantities of hazardous chemicals, water and electricity used per product, and to more efficiently recycle remaining waste.

Also, the potential emission rates of air toxics as reported in the New Dimension Plating updated June 1995 permit application and accompanying materials are above the Screening Emission Rates (SERs) for several hazardous air pollutants (HAPs). The Permittee may conduct any of the iterative screening or remediation techniques from Section 5 of the "Air Emission Permit Writers Guide to Air Toxic Risk Evaluation" to better characterize HAP emissions or otherwise reduce the risk below levels causing unacceptable human health concerns within 90 days of permit issuance.

If adequate progress is not achieved in a timely manner through the Strategic Goals Program or the Permit Writers Guide, the MPCA reserves the authority to reopen the permit and add the requirement to implement the corrective measures determined to be appropriate.

Emission calculations are attached

4. Conclusion

Based on the information provided by New Dimension Plating, the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 08500041-001 and this technical support document, will not cause or contribute to a violation of applicable federal regulations and Minnesota rules.

Staff Members on Permit Team: Greg Kvaal

Attachment: CD-01 Forms
Others specified in Section 3