

**AIR EMISSION PERMIT NO. 05300113- 001
IS ISSUED TO**

NICO PRODUCTS INC.
2929 First Avenue South
Minneapolis, Hennepin County, MN 55408

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	December 14, 1996

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: July 24, 2000

Expiration: July 24, 2005

All Title I Conditions do not expire.

Richard Sandberg, Manager
Major Facilities Section
Metro District

for Karen A. Studders, Commissioner
Minnesota Pollution Control Agency

TABLE OF CONTENTS

Notice to the Permittee

Permit Shield

Facility Description

Table A: Limits and Other Requirements

Table B: Submittals

Appendices: Attached and Referenced in Table A

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

FACILITY DESCRIPTION:

Nico Products, Inc. is a job shop metal finishing facility (SIC code 3471) with 13 separate metal plating and finishing lines consisting of both large-capacity automated lines, hoist lines and hand operated lines. Nico processes steel, stainless steel, zinc die cast, brass, copper, and aluminum/aluminum die cast parts. Plating is applied to the base metals for a variety of reasons including appearance, wear, corrosion resistance, electrical resistance and overall protection of the part. The facility operates a solvent vapor degreasing unit, three boilers and six plating waste storage tanks. Nico utilizes regenerable ion exchange resin for treatment of process rinse waters prior to final pH adjustment and discharge to the sanitary sewer.

Metal finishing and plating is accomplished through both electrical and non-electrical processes. Parts are typically degreased, using either the vapor degreaser or liquid alkaline cleaners, acid etched to remove any metal oxides from the parts surface and then moved through the plating of the specific finish metal(s). A final protective or decorative emersion coating is typically applied following the plating. The metals that Nico uses for plating are zinc, nickel, trivalent-chromium, copper, cadmium, brass, and tin. Non-plated finishes include chromates (clear, yellow, olive drab and black), passivation and iridite. These finishes are used on a variety of parts for numerous industries which include tool/hardware, electronics, aerospace/aircraft, industrial, military, medical and decorative art fixtures.

The facility currently has four high-capacity air scrubbing units for pollution control. A majority of the process tanks have an associated ventilation duct (hood, side vent or push-pull system) which are connected to specific scrubbers for emission control. The water used for air treatment is directed for ion exchange or discharge to the sanitary sewer. The facility has 14 stacks or roof vents which include boilers, degreaser, scrubbers and ventilators. The five ventilators are primarily used for heat control during the summer months, in addition to having shipping dock overhead doors open. There are no windows in the production area of the facility.

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 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
OPERATIONAL REQUIREMENTS	hdr
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan (O&M Plan) for all air pollution control equipment.	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)
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

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

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
MISCELLANEOUS REQUIREMENTS	hdr
Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its representative, to enter the Permittee's premises to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location.	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
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 Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095
The Permittee may be required to submit a Risk Management Plan (RMP) under the federal rule, 40 CFR pt. 68. Each owner or operator of a stationary source, at which a regulated substance is present above a threshold quantity in a process, shall design and implement an accidental release prevention program. The RMPs must be submitted to a centralized location as specified by US EPA. RMP submittal information may be obtained at http://www.epa.gov/swercepp or by calling 1-800-424-9346. These requirements must be complied with no later than the latest of the following dates: (1) June 21, 1999; (2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or (3) The date on which a regulated substance is first present above a threshold quantity in a process.	40 CFR Part 68
General provisions of Part 63 applicable to Subpart N are provided in Table 1 to Subpart N of Part 63 and those applicable to Subpart T are provided in Appendix B to Subpart T of Part 63	40 CFR Part 63

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 001 Stack Vent 002**Associated Items:** CE 001 Wet Scrubber-High Efficiency w/o Lime

EU 002 Zinc #1 Auto HC1 Acid

EU 003 Zinc #1 Auto HC1 Acid

EU 004 Zinc #2 Auto HC1 Acid

EU 005 Zinc #2 Auto HC1 Acid

EU 006 Zinc #2 Alkaline Zinc Plate

EU 007 Zinc #2 Alkaline Zinc Plate

EU 008 Nickel #1 PICTAX

EU 009 Nickel #1 HC1 Acid

EU 010 Nickel #1 Cyanide Copper Strike

EU 011 Nickel #1 Cyanide Copper Plate

EU 012 Nickel #1 Trivalent Chrome Plate

EU 013 Nickel #2 HC1 Acid

EU 014 Nickel #2 HC1 Acid

EU 015 Nickel #2 Trivalent Chrome Plate

SV 002 Zone 1 Vent/Scrubber

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.
Periodic monitoring requirements are found under CE 001	Minn. R. 7011.0715

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 002 Stack Vent 003**Associated Items:** CE 002 Wet Scrubber-High Efficiency w/o Lime

EU 016 Cadmium HC1 Acid

EU 017 Cadmium HC1 Acid

EU 018 Nickel #3A HC1 Acid

EU 019 Nickel #3A HC1 Acid

EU 020 Nickel #3A Trivalent Chrome Plate

EU 021 Nickel #3B HC1 Acid

EU 022 Zinc Handline HC1 Acid

EU 023 Zinc Handline HC1 Acid

EU 024 Zinc Handline Alkaline Zinc Plate

EU 025 Zinc Handline Black Chromate

EU 026 Tin Handline HC1 Acid (Steel)

EU 027 Tin Handline HC1 Acid (Copper)

EU 028 Tin Handline Strip

EU 029 Passivate Permanganate

EU 030 Passivate Dichromate - Type IV

EU 031 Passivate Caustic

EU 032 Miscellaneous Handline Zinc Regen

EU 033 Aluminum Handline Dichromate #2

EU 034 Zinc Handline Stripper

EU 035 Aluminum Handline Acid Etch

EU 036 Aluminum Handline 50% Nitric Acid

EU 037 Aluminum Handline Combination Acid

EU 038 Strips HC1 Acid

EU 039 Strips Chromic Acid

EU 040 Tin #4 HC1 Acid

EU 041 Tin #4 HC1 Acid

EU 042 Tin #4 Forstrip TLC

SV 003 Zone 2 Vent/Scrubber

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.
Periodic monitoring requirements are found under CE 002	Minn. R. 7011.0715

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 003 Stack Vent 004**Associated Items:** CE 003 Wet Scrubber-High Efficiency w/o Lime

EU 043 Zinc #3 Auto HC1 Acid

EU 044 Zinc #3 Auto Alkaline Zinc Plate

EU 045 Zinc #3 Auto Alkaline Zinc Plate

EU 046 Zinc #3 Auto Alkaline Zinc Plate

EU 047 Zinc #3 Auto Black Chromate

EU 048 Zinc #3 Auto Regen HC1

EU 049 Nickel Rack Strip

EU 050 Tin #4 Rack Strip

SV 004 Zone 3 Vent/Scrubber

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.
Periodic monitoring requirements are found under CE 003	Minn. R. 7011.0715

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 004 Stack Vent 005**Associated Items:** CE 004 Wet Scrubber-High Efficiency w/o Lime

EU 051 Zinc #4 Carrier Strip HC1 Acid

EU 052 Zinc #4 Diverstrip 4900

EU 053 Zinc #4 HC1 Acid

EU 054 Zinc #4 HC1 Acid

EU 055 Zinc #4 Alkaline Zinc Regen

EU 056 Zinc #4 Regen HC1 Acid

EU 057 Zinc #4 Alkaline Zinc Plate

EU 058 Zinc #4 Alkaline Zinc Plate

EU 059 Zinc #4 Alkaline Zinc Plate

EU 060 Zinc #4 Clear Chromate

EU 061 Zinc #4 Yellow Chromate

EU 062 Zinc #4 Yellow Chromate

SV 005 Zone 5 Vent/Scrubber

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.
Periodic monitoring requirements are found under CE 004	Minn. R. 7011.0715

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 005 Stack Vent 006**Associated Items:** EU 107 4000 gallon New HC1 Acid Storage Tank

EU 108 4000 gallon Used HC1 Acid Storage Tank

EU 109 3000 gallon Chromate Storage Tank

SV 006 Chemical Storage Area Vent

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 006 Stack Vent 007

Associated Items: EU 063 Cadmium Udyprep 340
 EU 064 Cadmium Cadmium Cyanide Barrel Plate
 EU 065 Cadmium Cadmium Cyanide Rack Plate
 EU 066 Cadmium Yellow Chromate
 EU 067 Cadmium Clear Chromate
 EU 068 Nickel #3A Cyanide Copper Plate
 EU 069 Nickel #3A Nickel Plate
 EU 070 Zinc Handline Clear Chromate
 EU 071 Zinc Handline Yellow Chromate
 EU 072 Tin Handline Irridite
 EU 073 Tin Handline Acid Tin #2 Plate
 EU 074 Tin Handline Acid Tin #1 Plate
 EU 075 Passivate 50% Nitric Acid
 EU 076 Passivate Oakite 31
 EU 077 Miscellaneous Handline Cyanide Copper #5
 EU 078 Miscellaneous Handline HC1 Acid
 EU 079 Miscellaneous Handline Cyanide Copper #4
 EU 080 Miscellaneous Handline Zinc Chloride Plate
 EU 081 Zinc Phosphate Handline Zinc Plate
 EU 082 Zinc Phosphate Handline Black
 EU 083 Zinc Phosphate Handline Nickel Chloride Plate
 EU 084 Aluminum Handline Zincate
 EU 085 Strips Nitric Acid
 EU 086 Strips Acid Tin #3 Plate
 EU 087 Strips Permanganate
 EU 088 Strips Diverstrip 4900
 EU 089 Strips Diverstrip 4900
 EU 090 Cadmium Olive Drab
 EU 091 Zinc Handline Olive Drab
 EU 092 Tin #4 Cyanide Copper #6
 EU 093 Tin #4 Acid Tin #4 Plate
 SV 007 North Hand Line Area Vent

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 007 Stack Vent 008

Associated Items: EU 094 Nickel #1 Cyanide Brass Plate
EU 095 Nickel #1 Nickel Strike
EU 096 Nickel #1 Nickel Plate
EU 097 Nickel #2 Cyanide Copper Strike
EU 098 Nickel #2 Copper Sulfate Plate
EU 099 Nickel #2 Nickel Plate
SV 008 South Hand Line Area Vent

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 008 Stack Vent 009 and 010**Associated Items:** EU 100 Zinc #1 Auto Cyanide Zinc Plate

EU 101 Zinc #1 Auto Black Chromate

EU 102 Zinc #1 Auto Clear Chromate

EU 103 Zinc #2 Auto Clear Chromate

SV 009 Zinc #1 Auto Area Vent

SV 010 Zinc #2 Auto Area Vent

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: GP 009 Stack Vent 011

Associated Items: EU 104 Zinc #3 Auto Zinc Stripper
EU 105 Zinc #3 Clear Chromate
EU 106 Zinc #3 Auto Clear Chromate
EU 110 3000 gallon Cyanide Dragout Storage Tank
EU 111 3000 gallon Extra Holding Storage Tank
SV 011 Zinc #3 Auto Area Vent

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. 7011.0715, Subp. 1.A.
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, Subp. 1.B.

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: EU 001 Degreaser - Halogenated Solvent Cleaner**Associated Items:** SV 001 Degreaser Vent

What to do	Why to do it
DESIGN REQUIREMENTS	hdr
Reduced Room Drafts. Ensure that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine does not exceed 50 feet per minute at any time.	40 CFR Section 63.463(a)(1)(ii)
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.	40 CFR Section 63.463(a)(5)
The vapor degreaser shall have a primary condenser.	40 CFR Section 63.463(a)(6)
The permittee shall use Option number 4 from 40 CFR 63.463(b)(1)(i) Table 1, reduced room draft, freeboard ratio of 1.0 and superheated vapor as the control combination option.	40 CFR Section 63.463(b)(1)(i)
WORK PRACTICE STANDARDS	hdr
Control Air disturbances across the cleaning machine opening(s) by incorporating the 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)
COMPLIANCE REQUIREMENTS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

<p>If a reduced room draft is used to comply with these standards, the owner or operator shall comply with the two following requirements:</p> <ul style="list-style-type: none"> - ensure that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 ft/min) at any time as measured using the procedures in 63.466(d); and - establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 ft/min) or less as described in 63.466 (d). 	40 CFR Section 63.463(e)(2)(ii)
<p>If a superheated vapor system is used to comply with these standards, the owner or operator shall comply with the following three requirements:</p> <ul style="list-style-type: none"> - ensure that the temperature of the solvent vapor at the center of the superheated vapor zone is at least 10 degrees F above the solvent's boiling point; - ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system is followed; and - ensure that parts remain within the superheated vapor for at least the minimum proper dwell time. 	40 CFR Section 63.463(e)(2)(vi)
ALTERNATIVE STANDARDS	hdr
<p>As an alternative to meeting the requirements of 40 CFR 63.463, the owner or operator of a batch vapor cleaning machine may elect to comply with the emission limit requirements of 40 CFR 63.464 and test methods in 40 CFR 63.465.</p>	40 CFR Section 63.464
MONITORING PROCEDURES	hdr
<p>Superheated Vapor System: use a thermometer or thermocouple weekly to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machines is in the idling mode.</p>	40 CFR Section 63.466(a)(2)
<p>Reduced Room Draft: Using an enclosure (full or partial), conduct an initial monitoring test.</p> <ul style="list-style-type: none"> - Conduct monthly monitoring tests of the windspeed within the enclosure by determining the direction of the wind current by slowly rotating a velometer inside the entrance to the enclosure until the maximum speed is located and record the maximum speed - Conduct monthly visual inspections of the enclosure to determine if it is free of cracks, holes and other defects. 	40 CFR Section 63.466(d)(2)
RECORDKEEPING REQUIREMENTS	hdr
<p>The owner or operator of a batch vapor cleaning machine complying with 40 CFR 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) records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of this subpart.</p>	40 CFR 63.467(a)
<p>The owner or operator of a batch vapor cleaning machine complying with 40 CFR 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 63.466, (2) information on the actions taken to comply with 40 CFR 63.463(e) and (f), (3) estimates of annual solvent consumption for each solvent cleaning machine.</p>	40 CFR 63.467(b)
REPORTING	hdr
<p>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.</p>	40 CFR Section 63.468(a)
<p>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 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) an estimate of annual halogenated HAP solvent consumption for each machine.</p>	40 CFR Section 63.468(b)
<p>The owner or operator of a batch vapor cleaning machine complying with 40 CFR 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 63.468(d)(1) to (d)(6).</p>	40 CFR Section 63.468(d)

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: EU 012 Nickel #1 Trivalent Chrome Plate**Associated Items:** CE 001 Wet Scrubber-High Efficiency w/o Lime

GP 001 Stack Vent 002

SV 002 Zone 1 Vent/Scrubber

What to do	Why to do it
A decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping requirements of Section 63.346(b)(14). The wetting agent must be an ingredient in the trivalent chromium bath components purchased from vendors.	40 CFR Section 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 Section 63.346(b)(14)

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: EU 015 Nickel #2 Trivalent Chrome Plate**Associated Items:** CE 001 Wet Scrubber-High Efficiency w/o Lime

GP 001 Stack Vent 002

SV 002 Zone 1 Vent/Scrubber

What to do	Why to do it
A decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping requirements of Section 63.346(b)(14). The wetting agent must be an ingredient in the trivalent chromium bath components purchased from vendors.	40 CFR Section 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 Section 63.346(b)(14)

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: EU 020 Nickel #3A Trivalent Chrome Plate**Associated Items:** CE 002 Wet Scrubber-High Efficiency w/o Lime

GP 002 Stack Vent 003

SV 003 Zone 2 Vent/Scrubber

What to do	Why to do it
A decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping requirements of Section 63.346(b)(14). The wetting agent must be an ingredient in the trivalent chromium bath components purchased from vendors.	40 CFR Section 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 Section 63.346(b)(14)

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: EU 112 Boiler #1

What to do	Why to do it
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. 7011.0515, Subp. 2
Total Particulate Matter: less than or equal to 0.40 lbs/million Btu heat input	Minn. R. 7011.0515, Subp. 1
The permittee shall burn only natural gas in EU 112 and keep records of fuel usage.	Minn. R. 7011.0515, Subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: EU 113 Boiler #2

What to do	Why to do it
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. 7011.0515, Subp. 2
Total Particulate Matter: less than or equal to 0.40 lbs/million Btu heat input	Minn. R. 7011.0515, Subp. 1
The permittee shall burn only natural gas in EU 113 and keep records of fuel usage.	Minn. R. 7011.0515, Subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc
Permit Number: 05300113 - 001

Subject Item: EU 114 Boiler #3

What to do	Why to do it
Equipment Removal and/or Dismantlement: due 7 days after Permit Issuance, render EU 114 inoperable	Minn. Stat. Section 116.07, subd. 9

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc
Permit Number: 05300113 - 001

Subject Item: EU 115 Boiler #4

What to do	Why to do it
Equipment Removal and/or Dismantlement: due 7 days after Permit Issuance, render EU 114 inoperable	Minn. Stat. Section 116.07, subd. 9

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: CE 001 Wet Scrubber-High Efficiency w/o Lime

Associated Items: EU 002 Zinc #1 Auto HC1 Acid
 EU 003 Zinc #1 Auto HC1 Acid
 EU 004 Zinc #2 Auto HC1 Acid
 EU 005 Zinc #2 Auto HC1 Acid
 EU 006 Zinc #2 Alkaline Zinc Plate
 EU 007 Zinc #2 Alkaline Zinc Plate
 EU 008 Nickel #1 PICTAX
 EU 009 Nickel #1 HC1 Acid
 EU 010 Nickel #1 Cyanide Copper Strike
 EU 011 Nickel #1 Cyanide Copper Plate
 EU 012 Nickel #1 Trivalent Chrome Plate
 EU 013 Nickel #2 HC1 Acid
 EU 014 Nickel #2 HC1 Acid
 EU 015 Nickel #2 Trivalent Chrome Plate
 GP 001 Stack Vent 002

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emissions limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the PM and PM-10 to be considered controlled for the purposes of emissions inventory, the scrubbers must comply with the requirements of this permit during the time credit for control is taken. The PM and PM-10 used during that time shall be considered controlled, and the control efficiency used is the limit given in this table.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (F) and Minn. R. 7019.3050
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Total Particulate Matter greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter < 10 microns greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
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)
MONITORING AND RECORDKEEPING	hdr
Water Flow Rate: The permittee shall record the water meter readings on a daily basis when corresponding processes are operating. The daily water meter readings shall be averaged over a weekly period and the records kept on-site.	Minn. R. 7007.0800, subp. 2, 5, and 14
Periodic Inspections: The permittee shall inspect the control equipment components as required by the manufacturer's specifications. The frequency of the inspections shall be specified in the O&M Plan. The permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 2, 5, and 14
Corrective Actions: If any of the scrubber components are found during the inspections to need repair, the permittee shall take corrective action as soon as possible. The permittee shall keep a record of the type and date of any corrective action taken	Minn. R. 7007.0800, subp. 2, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: CE 002 Wet Scrubber-High Efficiency w/o Lime

Associated Items: EU 016 Cadmium HC1 Acid
 EU 017 Cadmium HC1 Acid
 EU 018 Nickel #3A HC1 Acid
 EU 019 Nickel #3A HC1 Acid
 EU 020 Nickel #3A Trivalent Chrome Plate
 EU 021 Nickel #3B HC1 Acid
 EU 022 Zinc Handline HC1 Acid
 EU 023 Zinc Handline HC1 Acid
 EU 024 Zinc Handline Alkaline Zinc Plate
 EU 025 Zinc Handline Black Chromate
 EU 026 Tin Handline HC1 Acid (Steel)
 EU 027 Tin Handline HC1 Acid (Copper)
 EU 028 Tin Handline Strip
 EU 029 Passivate Permanganate
 EU 030 Passivate Dichromate - Type IV
 EU 031 Passivate Caustic
 EU 032 Miscellaneous Handline Zinc Regen
 EU 033 Aluminum Handline Dichromate #2
 EU 034 Zinc Handline Stripper
 EU 035 Aluminum Handline Acid Etch
 EU 036 Aluminum Handline 50% Nitric Acid
 EU 037 Aluminum Handline Combination Acid
 EU 038 Strips HC1 Acid
 EU 039 Strips Chromic Acid
 EU 040 Tin #4 HC1 Acid
 EU 041 Tin #4 HC1 Acid
 EU 042 Tin #4 Forstrip TLC
 GP 002 Stack Vent 003

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emissions limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the PM and PM-10 to be considered controlled for the purposes of emissions inventory, the scrubbers must comply with the requirements of this permit during the time credit for control is taken. The PM and PM-10 used during that time shall be considered controlled, and the control efficiency used is the limit given in this table.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (F) and Minn. R. 7019.3050
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Total Particulate Matter greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter < 10 microns greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
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)
MONITORING AND RECORDKEEPING	hdr
Water Flow Rate: The permittee shall record the water meter readings on a daily basis when corresponding processes are operating. The daily water meter readings shall be averaged over a weekly period and the records kept on-site.	Minn. R. 7007.0800, subp. 2, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Periodic Inspections: The permittee shall inspect the control equipment components as required by the manufacturer's specifications. The frequency of the inspections shall be specified in the O&M Plan. The permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 2, 5, and 14
Corrective Actions: If any of the scrubber components are found during the inspections to need repair, the permittee shall take corrective action as soon as possible. The permittee shall keep a record of the type and date of any corrective action taken	Minn. R. 7007.0800, subp. 2, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: CE 003 Wet Scrubber-High Efficiency w/o Lime**Associated Items:** EU 043 Zinc #3 Auto HC1 Acid

EU 044 Zinc #3 Auto Alkaline Zinc Plate

EU 045 Zinc #3 Auto Alkaline Zinc Plate

EU 046 Zinc #3 Auto Alkaline Zinc Plate

EU 047 Zinc #3 Auto Black Chromate

EU 048 Zinc #3 Auto Regen HC1

EU 049 Nickel Rack Strip

EU 050 Tin #4 Rack Strip

GP 003 Stack Vent 004

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emissions limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the PM and PM-10 to be considered controlled for the purposes of emissions inventory, the scrubbers must comply with the requirements of this permit during the time credit for control is taken. The PM and PM-10 used during that time shall be considered controlled, and the control efficiency used is the limit given in this table.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (F) and Minn. R. 7019.3050
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Total Particulate Matter greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter < 10 microns greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
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)
MONITORING AND RECORDKEEPING	hdr
Water Flow Rate: The permittee shall record the water meter readings on a daily basis when corresponding processes are operating. The daily water meter readings shall be averaged over a weekly period and the records kept on-site.	Minn. R. 7007.0800, subp. 2, 5, and 14
Periodic Inspections: The permittee shall inspect the control equipment components as required by the manufacturer's specifications. The frequency of the inspections shall be specified in the O&M Plan. The permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 2, 5, and 14
Corrective Actions: If any of the scrubber components are found during the inspections to need repair, the permittee shall take corrective action as soon as possible. The permittee shall keep a record of the type and date of any corrective action taken	Minn. R. 7007.0800, subp. 2, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 001

Subject Item: CE 004 Wet Scrubber-High Efficiency w/o Lime**Associated Items:** EU 051 Zinc #4 Carrier Strip HC1 Acid

EU 052 Zinc #4 Diverstrip 4900

EU 053 Zinc #4 HC1 Acid

EU 054 Zinc #4 HC1 Acid

EU 055 Zinc #4 Alkaline Zinc Regen

EU 056 Zinc #4 Regen HC1 Acid

EU 057 Zinc #4 Alkaline Zinc Plate

EU 058 Zinc #4 Alkaline Zinc Plate

EU 059 Zinc #4 Alkaline Zinc Plate

EU 060 Zinc #4 Clear Chromate

EU 061 Zinc #4 Yellow Chromate

EU 062 Zinc #4 Yellow Chromate

GP 004 Stack Vent 005

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emissions limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the PM and PM-10 to be considered controlled for the purposes of emissions inventory, the scrubbers must comply with the requirements of this permit during the time credit for control is taken. The PM and PM-10 used during that time shall be considered controlled, and the control efficiency used is the limit given in this table.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (F) and Minn. R. 7019.3050
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Total Particulate Matter greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter < 10 microns greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subp. 2; Equipment used under Minn. R. 7019.3020(F)
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)
MONITORING AND RECORDKEEPING	hdr
Water Flow Rate: The permittee shall record the water meter readings on a daily basis when corresponding processes are operating. The daily water meter readings shall be averaged over a weekly period and the records kept on-site.	Minn. R. 7007.0800, subp. 2, 5, and 14
Periodic Inspections: The permittee shall inspect the control equipment components as required by the manufacturer's specifications. The frequency of the inspections shall be specified in the O&M Plan. The permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 2, 5, and 14
Corrective Actions: If any of the scrubber components are found during the inspections to need repair, the permittee shall take corrective action as soon as possible. The permittee shall keep a record of the type and date of any corrective action taken	Minn. R. 7007.0800, subp. 2, 5, and 14

TABLE B: SUBMITTALS

07/24/00

Facility Name: Nico Products Inc
Permit Number: 05300113 - 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

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 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
Notification of the date of Equipment Removal/Dismantlement	due 15 days after Equipment Removal and/or Dismantlement. Submit the name and number of each unit and the date the unit was removed and/or dismantled.	EU114, EU115

TABLE B: RECURRENT SUBMITTALS

07/24/00

Facility Name: Nico Products Inc

Permit Number: 05300113 - 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.	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 63.468(h)(1) to (3).	EU001
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 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 stating that, "all operators of solvent cleaning machines have recieved training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test in 40 CFR 63.463(d)(10).", (2) an estimate of the solvent consumption for each solvent cleaning machine during the reporting period.	EU001
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 U.S. EPA regional office in Chicago>. This report covers all deviations experienced during the calendar year. < The EPA copy shall be sent to: Mr. George Czerniak, Chief, Air Enforcement and Compliance Assurance Branch, Air and Radiation Division, EPA Region V, 77 West Jackson Boulevard, Chicago, Illinois 60604>	Total Facility
Emissions 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.	Total Facility
Fuel Usage Report	due 30 days after end of each year following Permit Issuance	EU112
Fuel Usage Report	due 30 days after end of each year following Permit Issuance	EU113

TECHNICAL SUPPORT DOCUMENT
For
DRAFT AIR EMISSION PERMIT NO. 05300113-001

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)
NICO Products, Inc. PO Box 8209 Minneapolis, MN 55408 (612) 822-2185	2929 First Avenue South Minneapolis, MN 55408 Hennepin County

1.2. Description of the Facility

Nico Products, Inc., (Nico) is a job shop metal finishing facility (SIC code 3471) with 13 separate metal plating and finishing lines consisting of both large-capacity automated lines, hoist lines and hand operated lines. Nico processes steel, stainless steel, zinc die cast, brass, copper, and aluminum/aluminum die cast parts. Plating is applied to the base metals for a variety of reasons including appearance, wear, corrosion resistance, electrical resistance and overall protection of the part. The facility operates a solvent vapor degreasing unit, three boilers and six plating waste storage tanks. Nico utilizes regenerable ion exchange resin for treatment of process rinse waters prior to final pH adjustment and discharge to the sanitary sewer.

Metal finishing and plating is accomplished through both electrical and non-electrical processes. Parts are typically degreased, using either the vapor degreaser or liquid alkaline cleaners, acid etched to remove any metal oxides from the parts surface and then moved through the plating of the specific finish metal(s). A final protective or decorative emersion coating is typically applied following the plating. The metals that Nico uses for plating are zinc, nickel, trivalent-chromium, copper, cadmium, brass, and tin. Nonplated finishes include chromates (clear, yellow, olive drab and black), passivation and iridite. These finishes are used on a variety of parts for numerous industries which include tool/hardware, electronics, aerospace/aircraft, industrial, military, medical and decorative art fixtures.

The facility currently has four high-capacity air scrubbing units for pollution control. A majority of the process tanks have an associated ventilation duct (hood, side vent or push-pull system) which are connected to specific scrubbers for emission control. Nico is required to monitor and record the water flow rate to the scrubbers on a daily basis when the corresponding process units are in operation. The water used for air treatment is directed for ion exchange or discharge to the sanitary sewer. The facility has 14 stacks or roof vents which include boilers, degreaser, scrubbers and ventilators. The five ventilators are primarily used for heat control during the summer months, in addition to having shipping dock overhead doors open. There are no windows in the production area of the facility.

No periodic monitoring was required for the units associated with Groups 5 to 9 as the total emissions from all 48 of these units is less than 3 tons per year. Emission unit EU001 is subject to the design and work practice standards of 40 CFR Section 63, Subpart T. Emission units EU012, EU015, and EU020 are subject to the decorative chromium requirements to purchase plating bath components incorporating a wetting agent and keeping records of the bath components purchased from 40 CFR Section 63, Subpart N. The boilers, emission units EU112 and EU113, are required to only burn natural gas, keep records of fuel usage, and report fuel usage once annually.

1.3. Description of any changes allowed with this permit issuance.

This is the first permit issued for this facility. Prior to the public notice, the permittee indicated that they wanted to decommission the two old Bryan boilers and run only the newer and larger Kewanee boiler at some time in the future. During the public notice period, Nico discovered that they could not run the entire plant on the Kewanee boiler. The permit allows them to install a newer more efficient boiler and requires them to render the old boilers inoperable. The two old boilers had a combined capacity of 150 horsepower and the new boiler has a capacity of 125 horsepower. Emissions from the new boiler are estimated to be less than the old boilers for all pollutants. The two old Bryan boilers, EU114 and EU115 shall be made inoperable within seven days of permit issuance. This change was made in the permit after the public notice period had begun. As the emissions are estimated to be less and no new fuels are to be used, no new public notice is necessary. No comments on the facility were received during the initial public notice period.

1.4. Discussion of Air Operating Permit

This is the first permit issued for this facility. Nico applied for a Part 70 permit in 1996. At the time of permit issuance, the facility did not qualify for a State permit as the potential and actual emissions of a single Hazardous Air Pollutant (HAP) [trichloroethylene] were above the ten ton per year threshold and they could not take synthetic limits. At the time of reissuance of the permit, the permitting staff should reevaluate the type of permit to be issued.

Prior to changes made to the solvent cleaning machine and the elimination of hard chrome (Cr6+) in the processes, Nico was considered a major source of HAPs and was required to apply for a Part 70 Operating Permit. Between the time of application submittal in 1996 and the present time, Nico purchased a new degreasing unit and changed the chrome plating process. Nico is now an area source for chrome but the actual emissions of trichloroethylene are still above the major source threshold.

Table 1. Total Facility Potential to Emit Summary:

EU or G	SV#	Emission Unit Description	PM Tpy	PM10 tpy	SO2 tpy	NOx tpy	CO tpy	VOC Tpy	Pb tpy	Single HAP tpy	All HAPs tpy
EU001	001	Degreaser	-	27.7	-	-	-	27.7	-	27.7	27.7
EU112	012	Boiler	-	-	-	2.16	1.8	-	-	-	-
EU113	013	Boiler	-	-	-	1.8	1.5	-	-	-	-
GP001	002	SV 002	-	2.47	.001	-	-	-	-	2.41	2.47
GP002	003	SV003	-	2.04	0.03	0.26	-	-	-	1.58	1.61
GP003	004	SV004	-	1.45	.019	.031	-	-	-	1.32	1.32
GP004	005	SV005	-	2.67	-	.036	-	-	-	1.26	1.26
GP005	006	SV006	-	-	-	-	-	-	-	-	-
GP006	007	SV007	-	0.71	.016	0.16	-	-	-	0.21	0.36
GP007	008	SV008	-	0.16	.066	-	-	-	-	0.06	0.09
GP008	009 & 010	SV009 & 010	-	0.72	-	-	-	-	-	0.31	0.31
GP009	011	SV011	-	0.25	-	-	-	-	-	-	-

	PM tpy	PM10 tpy	SO2 tpy	NOx tpy	CO tpy	VOC tpy	Pb tpy	Single HAP tpy	All HAPs tpy
Total Facility Limited Potential Emissions	-	38	0.13	4.73	3.3	27.7	-	27.7	35.1
Total Facility Actual Emissions	-	17.75	.05	3.5	2.83	16.7	-	16.7	17.1

Table 2. Facility and Permit Classification

Classification	Major/Affected Source	*Synthetic Minor	*Minor
PSD			X
NAAR			X
Part 70 Permit Program	X (trichloroethylene)		

* 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, GP or SV #	Applicable Regulations	Comments:
EU001	40 CFR 63, Subpart T	National Emission Standards for Halogenated Solvent Cleaning
EU012, EU015, EU020	40 CFR 63, Subpart N	National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks
GP001 to GP011	Minn. R. 7011.0715	Standards of Performance for Post 1969 Industrial Process Equipment
EU112 to EU114	Minn. R. 7011.0510	Standards of Performance for Old Indirect Heating Equipment

3. Technical Information

In addition to the draft permit, the following additional information should be attached to or included as additional sections to the TSD: Part 63, Subparts N and T

4. Conclusion

Based on the information provided by Nico the Minnesota Pollution Control Agency has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 05300113-001 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 K. Kvaal, Robert Berg

Attachment: CD-01 Forms
Others specified in section 3

