

**AIR EMISSION PERMIT NO. 05300138- 001
IS ISSUED TO**

NORTHLAND ALUMIUM PRODUCTS INC.

Highway 7 at 100
St. Louis Park, Hennepin County, MN 55416

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	January 22, 2001

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: September 24, 2001

Expiration: September 24, 2006

All Title I Conditions do not expire.

Richard J. Sandberg, Manager
Major Facilities Section
Metro District

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. chs. 7000 to 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:

Northland Aluminum Products manufactures metal and plastic cookware/bakeware and conducts some custom parts surface coating. Air emission sources at the facility include plastics compression molding, metal surface preparation (sandblasting and thermal spraying), coating, and combustion. Coating operations includes spray application of liquid and powder coatings. The site combustion equipment includes boilers and curing ovens fueled by natural gas with propane back up. The facility's thermal spraying and sandblasting operations are controlled by baghouses. All of the facility's coating lines have panel filters for particulate control.

This permit was written as a flex cap permit for the painting and/or coating booths, molding equipment, sandblasting, and the curing ovens. The permit authorizes the Permittee to add, delete or modify coating booths, molding equipment, sandblasting operations, or curing ovens at any time over the life of the permit. The stationary source as changed must abide by the usage limits and meet all conditions of the permit at all times.

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 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
MACT STANDARDS	hdr
The Permittee will likely be subject to three Upcoming 10 year MACT Standards (Rules not yet proposed or promulgated). These include Subpart DDDDD, Industrial, Commercial and Institutional Boilers and Process Heaters; Subpart MMMM, Miscellaneous Metal Parts and Products (surface coating); and Subpart PPPP, Plastic Parts (surface coating). The Permittee will be subject to the requirements of the upcoming standards as they are promulgated. A listing of the upcoming standards with tentative proposal and final dates and contact information is attached to the Technical Support Document.	Title III Upcoming MACT Standards
OPERATIONAL REQUIREMENTS	hdr
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 and/or B, 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)

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

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
MISCELLANEOUS REQUIREMENTS	hdr
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)
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)
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
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
This permit authorizes the Permittee to add, delete or modify coating booths, molding equipment, sandblasting operations, or curing ovens at any time over the life of the permit. The stationary source as changed must abide by the usage limits and meet all conditions of the permit at all times. See Group 4 for the related flexible permit requirements.	Title I Condition: Limit taken to avoid classification as a major source or modification under 40 CFR 52.21

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: GP 001 Industrial Process Equipment

Associated Items:

- EU 001 Line A Primer Paint Booth
- EU 002 Line A Finish Paint Booth
- EU 003 Line B Primer Paint Booth
- EU 004 Line B Finish Paint Booth
- EU 005 Line C Primer Paint Booth
- EU 006 Line C Finish Paint Booth
- EU 007 Line D Primer Paint Booth
- EU 008 Line D Finish Paint Booth
- EU 010 Line F Primer Paint Booth
- EU 011 Line F Finish Paint Booth
- EU 012 Line G Spray Booth
- EU 013 Line H1 Paint Booth
- EU 014 Line J1 Paint Booth
- EU 015 Line J2 Paint Booth
- EU 016 Line J3 Paint Booth
- EU 017 Line H2 Paint Booth
- EU 018 Thermal Spray Booth
- EU 023 Sandblasting Reclaimer

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. This limit applies to each unit individually.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
For periodic monitoring requirements see Group 5 for the Panel Filters on the paint booths and CE 018 and CE 019 for the fabric filters on the Thermal Spray Booth and the Sandblasting Reclaimer respectively.	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: GP 002 Indirect Heating Equipment

Associated Items: EU 019 Continental Steam Boiler
EU 020 American Standard Hot Water Boiler
EU 021 Kewanee Steam Boiler
EU 026 Line C Curing Oven
EU 028 Line E Curing Oven

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input . This limit applies to each unit individually.	Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. This limit applies to each unit individually.	Minn. R. 7011.0510, subp. 2
The permittee shall burn only natural gas or propane in EU019, EU020, EU021, EU026 and EU028. Records of fuel usage shall be recorded and kept on-site.	Minn. R. 7011.0510

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: GP 003 Direct Heating Equipment

Associated Items: EU 024 Line A Curing Oven
EU 025 Line B Curing Oven
EU 027 Line D Curing Oven
EU 029 Line F Curing Oven
EU 030 Line G Curing Oven
EU 031 Line H1 Curing Oven
EU 032 Line J2 Curing Oven
EU 033 Line J3 Curing Oven

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. This limit applies to each unit individually.	Minn. R. 7011.0610, subp. 1A(1)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. This limit applies to each unit individually.	Minn. R. 7011.0610, subp. 1A(2)
The permittee shall burn only natural gas or propane in EU024, EU025, EU027, EU029, EU030, EU031, EU032 and EU033. Records of fuel usage shall be recorded and kept on-site.	Minn. R. 7011.0610

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: GP 004 VOC and PM Sources

Associated Items: EU 001 Line A Primer Paint Booth
EU 002 Line A Finish Paint Booth
EU 003 Line B Primer Paint Booth
EU 004 Line B Finish Paint Booth
EU 005 Line C Primer Paint Booth
EU 006 Line C Finish Paint Booth
EU 007 Line D Primer Paint Booth
EU 008 Line D Finish Paint Booth
EU 009 Line E Paint Booth
EU 010 Line F Primer Paint Booth
EU 011 Line F Finish Paint Booth
EU 012 Line G Spray Booth
EU 013 Line H1 Paint Booth
EU 014 Line J1 Paint Booth
EU 015 Line J2 Paint Booth
EU 016 Line J3 Paint Booth
EU 017 Line H2 Paint Booth
EU 018 Thermal Spray Booth
EU 022 Molding Room Including 19 Compression Molding Presses
EU 023 Sandblasting Reclaimer

What to do	Why to do it
Volatile Organic Compounds: less than or equal to 200 tons/year using 12-month Rolling Sum by restricting the total paints, coatings, solvents and molding compounds used in any 12-month period.	Title I Condition: Limit taken to avoid major source and modification classification under 40 CFR 52.21
Total Particulate Matter: less than or equal to 100 tons/year using 12-month Rolling Sum by restricting the total paints, coatings, solvents and molding compounds used in any 12-month period.	Title I Condition: Limit taken to avoid major source and modification classification under 40 CFR 52.21
Particulate Matter < 10 micron: less than or equal to 100 tons/year using 12-month Rolling Sum by restricting the total paints, coatings, solvents and molding compounds used in any 12-month period.	Title I Condition: Limit taken to avoid major source and modification classification under 40 CFR 52.21
Daily Recordkeeping. On each day of operation, the Permittee shall record the total quantity of all coatings and other VOC, solids, and HAP containing materials used at the facility. This shall be based on written usage logs and/or flowmeters and/or delivery records.	Title I Condition: Monitoring for Limit to avoid classification as major source and modification under 40 CFR 52.21 and Minn. R. 7007.3000; to avoid major source classification under 40 CFR 70.2 and 40 CFR 63.2; Minn. R. 7007.0800. subp. 4 and 5
Monthly Recordkeeping - Solids Usage. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each solids containing material for the previous calendar month using the daily usage records. This record shall also include solids contents of each material as determined by the Material Content requirement of this permit. 2) The solids usage for the previous month using the formulas specified in this permit. 3) The 12 month rolling sum solids usage for the previous 12 month period by summing the monthly solids usage data for the previous 12 months.	Title I Condition: Monitoring for Limit to avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Monthly Recordkeeping -- VOC Emissions. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of VOC containing materials for the previous calendar month using the daily usage records. This record shall also include the VOC and solids contents of each material as determined by the Material Content requirement of this permit. 2) The VOC emissions for the previous month using the formulas specified in this permit. 3) The 12 month rolling sum VOC emissions for the previous 12 month period by summing the monthly VOC emissions data for the previous 12 months.	Minn. R. 7007.0800, subp. 4 and 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

<p>By the 15th of the each month the Permittee shall calculate PM, PM-10, and VOC emissions for the previous 12 months using the following equations:</p> $E \text{ (VOC)} = \text{sum}[X \text{ (coatings/solvents)} \times U \text{ (coatings/solvents)}] + \text{sum}[X \text{ (molding)} \times 0.03 \times U \text{ (molding)}] - \text{sum}[X \text{ (offsite recycling)} \times U \text{ (offsite recycling)}]$ $E \text{ (PM/PM-10)} = \text{sum}[Y \text{ (coatings)} \times T \times U \text{ (coatings)} \times (1-CE)]$ <p>Where: E = 12-month rolling sum emissions (tons/yr) X = VOC content by weight (lb VOC/lb material) Y = Solids content by weight (lb solid/lb material) U = Usage for the previous 12-month rolling period (tons/yr) 0.03 = VOC emission factor for closed molding process (lb emitted/lb VOC used) T = Transfer efficiency CE = Control Efficiency, Minn. R. 7011.0070</p>	<p>Title I Condition: Monitoring for Limit to avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2; Minn. R. 7007.0800, subp. 4 and 5</p>
<p>This permit authorizes the Permittee to add, delete or modify coating booths, sandblasting operations, or curing ovens at any time over the life of the permit. The stationary source as changed must abide by the usage limits and meet all conditions of the permit at all times. The Permittee shall keep records of any changes made including documenting any new units or new materials used.</p>	<p>Title I Condition: Limit taken to avoid classification as a major source or modification under 40 CFR 52.21</p>
<p>Material Content: VOC, HAPs, and Solids (PM and PM<10 microns) contents in coating materials shall be determined by the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the MSDS, the highest number in the range shall be used in all compliance calculations. When using the MSDS as the basis of calculating particulate emissions, the conservative assumption is made that PM consists entirely of PM less than 10 microns. Other alternative methods approved by the MPCA may be used to determine the VOC, HAPs, and solids contents. The Commissioner reserves the right to require the Permittee to determine the VOC, HAP, and solids contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained shall supersede the MSDS.</p>	<p>Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Waste Credit: If the Permittee elects to obtain credit for HAPs, solids, and/or VOC shipped in waste materials, the Permittee shall either use item 1 or 2 to determine the VOC, solids, and/or total and individual HAP content for each credited shipment.</p> <ol style="list-style-type: none"> 1) The Permittee shall analyze a composite sample of each waste shipment to determine the weight content of VOC, solids, total HAP, and each individual HAP, excluding water. 2) The Permittee may use supplier data for raw materials to determine the VOC, solids, and total and individual HAP contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste shall be assumed to be the lowest VOC, solids, and total and individual HAP content of any of the materials. 	<p>Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Insignificant Activities: The Permittee shall evaluate the emissions from changes made under Minn. R. 7007.1300 on an annual basis. The Permittee shall not make any change that causes emissions to exceed permit thresholds in Minn. R. ch. 7007 without first obtaining a major permit amendment.</p>	<p>Title I Condition: Limit to avoid classification as major source or modification under 40 CFR Section 52.21</p>
<p>This permit establishes limits on the facility to keep it a minor source under New Source Review. The Permittee cannot make any change at the source that would make the source a major source under New Source Review until a permit amendment has been issued. This includes changes that might otherwise qualify as insignificant modifications and minor or moderate amendments.</p>	<p>Title I Condition: Limit to avoid classification as major source or modification under 40 CFR Section 52.21</p>
<p>The Permittee shall not begin construction of any single project or projects that are connected or phased which will cause a total increase in actual emissions of greater than 99 tons per year for any criteria pollutant without first getting a permit amendment to authorize the project. Connected and phased have meanings as defined in Minn. R. 4410.0200 subps. 9b and 60. The Permittee shall not begin construction of any other project which is listed in Minn. R. 4410.4300 or Minn. R. 4410.4400 without first getting a permit amendment to authorize the project. Such projects may require the completion of an Environmental Assessment Worksheet or an Environmental Impact Statement prior to the amendment being issued. This is a state only requirement and is not federally enforceable.</p>	<p>Minn. R. 4410.4300 and Minn. R. 4410.4400</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: GP 005 Panel Filters**Associated Items:** CE 001 Mat or Panel Filter

CE 002 Mat or Panel Filter

CE 003 Mat or Panel Filter

CE 004 Mat or Panel Filter

CE 005 Mat or Panel Filter

CE 006 Mat or Panel Filter

CE 007 Mat or Panel Filter

CE 008 Mat or Panel Filter

CE 009 Mat or Panel Filter

CE 010 Mat or Panel Filter

CE 011 Mat or Panel Filter

CE 012 Mat or Panel Filter

CE 013 Mat or Panel Filter

CE 014 Mat or Panel Filter

CE 015 Mat or Panel Filter

CE 016 Mat or Panel Filter

CE 017 Mat or Panel Filter

What to do	Why to do it
Daily Inspections: Once each operating day, the Permittee shall visually inspect the condition of each panel filter with respect to alignment, saturation, tears, holes and any other condition that may affect the filter's performance. The Permittee shall maintain a daily written record of filter inspections.	40 CFR 71.6(a)(3)
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.	40 CFR 71.6(a)(3)
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.	40 CFR 71.6(a)(3)

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: EU 009 Line E Paint Booth**Associated Items:** CE 009 Mat or Panel Filter

GP 004 VOC and PM Sources

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)
Daily Inspections: Once each operating day, the Permittee shall visually inspect the condition of each panel filter with respect to alignment, saturation, tears, holes and any other condition that may affect the filter's performance. The Permittee shall maintain a daily written record of filter inspections.	40 CFR 71.6(a)(3)

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: CE 018 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**Associated Items:** EU 018 Thermal Spray Booth

What to do	Why to do it
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0065, subp. 1(A)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; Minn. R. 7011.0065, subp. 1(A)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 5 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0080
Visible Emissions: The Permittee shall check the fabric filter stack (SV # 018) for any visible emissions once each week during daylight hours.	Title I Condition: Monitoring for Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0080
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit.	Title I Condition: Monitoring for Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0080
The control equipment is considered listed control equipment under Minn. R. 7011.0060 to 7011.0080. The Permittee shall operate and maintain the fabric filter at all times that any process equipment controlled by the fabric filter is operating.	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0065, subp. 2(A)
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or 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 fabric 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
Alternative Pressure Drop Range: If the Permittee wishes to propose an alternative pressure drop range to the one specified in this permit without conducting a performance test, the Permittee shall submit the proposal to MPCA for review. The proposal shall contain control equipment vendor data, actual operating data, or other information as necessary, in order to justify an alternative range. Upon written approval by MPCA, the alternative range shall become an enforceable part of this permit.	Minn. R. 7007.0800, subp. 2
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7011.0075, subp. 3
The Permittee shall maintain each piece of control equipment according to the manufacturer's specification, shall conduct inspections, and maintain documentation of those actions as required by Minn. R. 7011.0075, subp. 2(A) to 2(I).	Minn. R. 7011.0075, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 001

Subject Item: CE 019 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**Associated Items:** EU 023 Sandblasting Reclaimer

What to do	Why to do it
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0065, subp. 1(A)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; Minn. R. 7011.0065, subp. 1(A)
Pressure Drop: greater than or equal to 1 inches of water column and less than or equal to 9 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0080
Visible Emissions: The Permittee shall check the fabric filter stack (SV # 024) for any visible emissions once each week during daylight hours.	Title I Condition: Monitoring for Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0080
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit.	Title I Condition: Monitoring for Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0080
The control equipment is considered listed control equipment under Minn. R. 7011.0060 to 7011.0080. The Permittee shall operate and maintain the fabric filter at all times that any process equipment controlled by the fabric filter is operating.	Title I Condition: Limit taken to avoid classification as a major source and modification under 40 CFR Section 52.21; to avoid classification as a major source under 40 CFR Section 70.2; Minn. R. 7011.0065, subp. 2(A)
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or 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 fabric 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
Alternative Pressure Drop Range: If the Permittee wishes to propose an alternative pressure drop range to the one specified in this permit without conducting a performance test, the Permittee shall submit the proposal to MPCA for review. The proposal shall contain control equipment vendor data, actual operating data, or other information as necessary, in order to justify an alternative range. Upon written approval by MPCA, the alternative range shall become an enforceable part of this permit.	Minn. R. 7007.0800, subp. 2
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7011.0075, subp. 3
The Permittee shall maintain each piece of control equipment according to the manufacturer's specification, shall conduct inspections, and maintain documentation of those actions as required by Minn. R. 7011.0075, subp. 2(A) to 2(I).	Minn. R. 7011.0075, subp. 2

TABLE B: SUBMITTALS

09/24/01

Facility Name: Northland Aluminum Products Inc
Permit Number: 05300138 - 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

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 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
Computer Dispersion Modeling Protocol	due 1,096 days after Permit Issuance. This protocol will describe the proposed modeling methodology and input data, in accordance with MPCA modeling guidance for Title V air dispersion modeling analyses. The protocol will be based on projected operating conditions under the next permit term. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Computer Dispersion Modeling Results	due 1,462 days after Permit Issuance. To be submitted after the MPCA has reviewed and approved the modeling protocol and should adhere to MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Operation and Maintenance Plan	due 60 days after Permit Issuance. 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.	Total Facility

TABLE B: RECURRENT SUBMITTALS

09/24/01

Facility Name: Northland Aluminum Products Inc

Permit Number: 05300138 - 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
Annual Report	due 30 days after end of each year following Permit Issuance. The Permittee shall submit an annual report by January 30 that describes the changes made at the facility during the previous calendar year using the latest MPCA forms. The report shall document the VOC 12-month rolling sum calculations for the previous calendar year and New Source performance Standards that were triggered in the last calendar year. The report shall be submitted with the annual Compliance Certification listed in Table B. As part of the Annual Report, the Permittee shall verify and certify that the facility has maintained minor source status for New Source Review.	GP004
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
DRAFT AIR EMISSION PERMIT NO. 05300138-001

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	Facility Address (SIC Code: 3499)
Highway 7 at 100 St. Louis Park, Minnesota 55416 (952) 924-8544	Highway 7 at 100 St. Louis Park Hennepin County (952) 924-9645

1.2. Description of the facility

Northland Aluminum Products manufactures metal and plastic cookware/bakeware and conducts some custom parts surface coating. Air emission sources at the facility include plastics compression molding, metal surface preparation (sandblasting and thermal spraying), coating, and combustion. Coating operations includes spray application of liquid and powder coatings. The sites combustion equipment includes boilers and curing ovens fueled by natural gas with propane back up. The facility's thermal spraying and sandblasting operations are controlled by baghouses. All of the facility's coating lines have panel filters for particulate control.

1.3. Description of any changes allowed with this permit issuance

This is the first permit issued for this facility. This permit was written as a flex cap permit for the painting or coating booths, sandblasting, and the curing ovens. The permit authorizes the Permittee to add, delete or modify coating booths, molding equipment, sandblasting operations, or curing ovens at any time over the life of the permit. The stationary source as changed must abide by the usage limits and meet all conditions of the permit at all times.

- 1.4. Description of all amendments issued since the issuance of the last total facility permit and to be included in the Part 70 Permit.

Permit Number and Issuance Date	Action Authorized
05300138-001	This is the first Total Facility Permit issued for this facility. The following minor modification applications were submitted since the submittal of the original Title V permit application in 1995.
1995	Replacement of Thermal Spray Booth
1996	Replacement of Line H-1 Paint Booth
1999	Installation of seven additional compression molders in the existing molding room
2001	Installation of two additional compression molders in the existing molding room

- 1.5. Facility Emissions:

Table 1. Total Facility Permitted Potential to Emit Summary

Pollutant	Coating Spraying and Other VOC Usage (tpy)	Boilers and Curing Ovens (tpy)	Total Facility (tpy)
Particulate Matter (PM)	100	1	101
Particulate Matter less than 10 microns (PM ₁₀)	100	1	101
Nitrogen Oxides (NO _x)	neg.	17.3	17.3
Sulfur Oxides (SO _x)	neg.	0.05	0.05
Volatile Organic Compounds (VOC)	200	1	201
Carbon Monoxide (CO)	neg.	9	9
Hazardous Air Pollutants (HAPs)			
Cumene	200	1	201
Dimethyl Formamide	200	1	201
Dimethyl Phthalate	200	1	201
1,4 dioxane	200	1	201
Ethyl Benzene*	200	1	201
Ethylene Dichloride	200	1	201
Formaldehyde	200	1	201
Glycol Ethers*	200	1	201
Methanol	200	1	201
Methyl Ethyl Ketone*	200	1	201

Pollutant	Coating Spraying and Other VOC Usage (tpy)	Boilers and Curing Ovens (tpy)	Total Facility (tpy)
Methyl Isobutyl Ketone	200	1	201
Naphthalene	200	1	201
Phenol	200	1	201
Propylene Oxide	200	1	201
Styrene	200	1	201
Toluene	200	1	201
Triethylamine	200	1	201
Xylene	200	1	201
Antimony	200	neg.	200
Chromium	200	neg.	200
Cobalt	200	neg.	200
Lead	200	neg.	200
Manganese	200	neg.	200
Nickel	200	neg.	200
Phosphorous	200	neg.	200
Zinc	200	neg.	200
Total HAP*	200	1	401

tpy = tons per year

neg. = negligible

*HAPs that are limited by the VOC limit.

	PM tpy	PM10 tpy	SO2 tpy	NOx tpy	CO tpy	VOC tpy	Single HAP tpy	All HAPs tpy
Total Facility Limited Potential Emissions	100	100	--	--	--	200	201	201
Total Facility Actual Emissions	1.05	1.05	0.03	3.34	2.7	56.1	9.0	23.6

Table 2. Facility and Permit Classification

Program	Major Source	*Synthetic Minor	*Minor
Prevention of Significant Deterioration		VOC, PM/PM ₁₀ , and Pb	
Nonattainment Area Review	NA	NA	NA
Part 70 Permit Program	HAP, VOC, PM ₁₀		
Part 63 National Emissions Standards for Hazardous Air Pollutants (NESHAP)	X		

* Refers to PTE less than those specified as major by 40 CFR § 52.21, 40 CFR pt. 70, and 40 CFR pt. 63.

2. Regulatory and/or Statutory Basis

The facility has taken limits to avoid major source classification for New Source Review (40 CFR § 52.21), but is a major source under the federal operating permits program (40 CFR pt. 70) and the NESHAP program (40 CFR pt. 63).

A comment from the Minnesota Department of Health was received after the public notice period had ended concerning the permitted potential emissions of 200 tpy for PM and PM-10. After consultation with the Permittee, they proposed reducing the limit to 100 tpy. The final permit incorporates this change.

The facility will likely be subject to three upcoming 10 years MACT Standards (rules not yet proposed or promulgated). These include Subpart DDDDD, Industrial, Commercial and Institutional Boilers and Process Heaters; Subpart MMMM, Miscellaneous Metal Parts and Products (surface coating); and Subpart PPPP, Plastic Parts (surface coating). The Permittee will be subject to the requirements of the upcoming standards as they are promulgated. A listing of the upcoming standards with tentative proposal and final dates and contact information is attached to the Technical Support Document.

Regulatory Overview of Facility

EU, GP, or SV #	Applicable Regulations	Comments:
GP001	Minn. R. 7011.0715	Standards of Performance for Post-1969 Industrial Process Equipment
GP002	Minn. R. 7007.0510	Standards of Performance for Existing Indirect Heating Equipment
GP003	Minn. R. 7007.0610	Standards of Performance for Fossil-Fuel-Burning Direct Heating Equipment
GP004	40 CFR 52.21	Prevention of Significant Deterioration. Limits taken to avoid major source and modification classification under 40 CFR 52.21 for VOC and PM
GP005	40 CFR 70.6	40 CFR Part 70 monitoring and related recordkeeping and reporting requirements
EU009	Minn. R. 7011.0710	Standards of Performance for Pre-1969 Industrial Process Equipment

Insignificant Activities

The Permittee listed several current insignificant activities in the permit application and supplemental submittals, as noted in Table 6. The permit is required to include periodic monitoring for all emissions units, including insignificant activities, per U.S. Environmental Protection Agency (EPA) guidance. The insignificant activities at this facility are only subject to general applicable requirements. Using the criteria outlined earlier in this TSD, the following table documents the justification why no additional periodic monitoring is necessary for the current insignificant activities, and likely future ones, that might be located at this site. See Attachment 3 of this TSD for PTE information for the insignificant activities.

Table 3. Insignificant Activities

Insignificant Activity	Currently on site? (Y/N)	General Applicable Emission limit	Discussion
Space heaters fueled by natural gas or propane	Y	PM, variable depending on airflow Opacity \leq 20% with exceptions (Minn. R. 7011.0610)	For these units based on the fuels used and published emissions factors, it is highly unlikely that they could violate the applicable requirement.
Fuel use in furnaces or boilers with a capacity of less than 500,000 Btu/hr.	Y	PM \leq 0.4 lb/MMBtu Opacity \leq 20 % (Minn. R. 7011.0610)	For these units based on the fuels used and EPA published emissions factors, it is highly unlikely that they could violate the applicable requirement. In addition, these units are operated and vented inside a building, so testing for PM or opacity is not feasible.
Brazing, soldering or welding equipment	Y	PM, variable depending on airflow Opacity \leq 20% (Minn. R. 7011.0715)	For these units, based on EPA published emissions factors, it is highly unlikely that they could violate the applicable requirement. In addition, these units are operated and vented inside a building, so testing for PM or opacity is not feasible.
Blueprint copiers and photographic processes	N	Opacity \leq 20% (Minn. R. 7011.0110)	While no emissions estimation method exists for these units, based on general knowledge of how they operate, it is highly unlikely that they could generate visible emissions.

Insignificant Activity	Currently on site? (Y/N)	General Applicable Emission limit	Discussion
Cleaning operations: alkaline/phosphate cleaners and associated cleaners and associated burners	Y	PM, variable depending on airflow Opacity \leq 20% (Minn. R. 7011.0610, Minn. R. 7011.0715)	For these units, there are some factors available for the burners, but very little information regarding the cleaning operation itself. However, based on general knowledge of how they operate, it is highly unlikely that they could violate the applicable requirement or that testing would be feasible.
Infrequent use of spray paint equipment for routine housekeeping or plant upkeep activities	N	PM, variable depending on airflow or process weight rate Opacity \leq 20% (Minn. R. 7011.0715)	While spray equipment will have the potential to emit particulate matter, these particular activities are those not associated with production, so they would be infrequent and usually occur outdoors. Testing or monitoring is not feasible.

3. Technical Information

Sample Calculation Painting/Coating Operations

Worst Case VOC Content = 6.8 lbs/gal; Maximum Coating Application Rate = 16.88 gal/hr/gun x 4 guns.

6.80 lbs/gal x 16.88 gal/hr/gun x 4 guns = 459.136 lbs/hr VOCs
 459.136 lbs/hr x 8760 hr/yr x 1 ton/2000 lbs = 2011.02 tons/yr VOCs

Worst Case Solids Content = 11.67 lbs/gal; Maximum Coating Application Rate = 16.88 gal/hr/gun x 4 guns; 80% capture efficiency and 92% control efficiency = 73.6% overall control efficiency; 30% transfer efficiency

11.67 lbs/gal x 16.88 gal/hr/gun x 4 guns x (1.0 – 0.3) = 551.57 lbs/hr uncontrolled PM/PM10
 551.57 lbs/hr x 8760 hrs/yr x 1 ton/2000 lbs = 2415.9 tons/yr uncontrolled PM/PM10
 551.57 lbs/hr x (1.0 – 0.736) = 145.61 lbs/hr controlled PM/PM10
 2415.9 tons/yr x (1.0 – 0.736) = 637.79 tons/yr controlled PM/PM10

Units have been grouped according to the requirements that apply to them. Several units are subject to the Industrial Process Equipment Rule, five units are subject to the Indirect Heating Rule, and eight units are subject to the Direct Heating Equipment Rule. Many of the units are grouped together as they are VOC and PM sources taking synthetic minor limits to avoid New Source Review.

4. Conclusion

Based on the information provided by Northland Aluminum Products, Inc., the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 05300138-001 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,

Attachment: CD-01 Forms
Others specified in section 3