

AIR EMISSION PERMIT NO. 12300707- 002

IS ISSUED TO

Viking Drill & Tool Inc

Viking Drill & Tool Inc
355 State St
St. Paul, Ramsey County, MN 55107

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	04/30/1998
Major Amendment	11/04/02

This permit authorizes the permittee to operate and construct 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 are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Permit Type: Federal; Pt 70/NESHAP

Issue Date: April 11, 2003

Expiration: June 4, 2006

All Title I Conditions do not expire.

Michael (Mike) J. Tibbetts
Major Facilities Section Manager
Majors and Remediation Division

for Sheryl A. Corrigan
Commissioner
Minnesota Pollution Control Agency

GK:lmg

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NOTICE TO THE PERMITTEE:

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

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

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

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

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION:

Viking Drill & Tool, Inc. is a manufacturer of twist drills. The primary source of emissions at the facility is the vapor degreaser, which is subject to 40 CFR 63, Subpart T; National Emission Standards for Halogenated Solvent Cleaning Equipment. Viking is replacing their vapor degreaser with a larger more efficient degreaser using a major amendment which will keep them major for Part 70 but a synthetic minor source for PSD.

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/11/03

Facility Name: Viking Drill & Tool Inc

Permit Number: 12300707 - 002

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
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. "At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation."	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and/or B.	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 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)
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
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

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/11/03

Facility Name: Viking Drill & Tool Inc

Permit Number: 12300707 - 002

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
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
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)
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)
Record keeping: 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)
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
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/11/03

Facility Name: Viking Drill & Tool Inc

Permit Number: 12300707 - 002

Subject Item: EU 002 Degreaser

What to do	Why to do it
Equipment Removal and/or Dismantlement: due before Install of the new vapor degreaser.	Minn. R. 7007.0800, subp. 2; Minn. Stat. Section 116.07, subd. 9

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/11/03

Facility Name: Viking Drill & Tool Inc

Permit Number: 12300707 - 002

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)
Freeboard Ratio. The vapor degreaser shall have a freeboard ratio of 1.0 or greater.	40 CFR Section 63.463(b)(2)(i); Minn. R. 7011.7200
Superheated Vapor. Comply with the standards of 40 CFR Section 63.463(e)(2)(vi)(A) to (e)(2)(vi)(C)	40 CFR Section 63.463(b)(2)(i); Minn. R. 7011.7200
The degreaser must 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 parts through removal of cleaned parts.	40 CFR Section 63.463(a)(3); Minn. R. 7011.7200
The degreaser must be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils.	40 CFR Section 63.463(a)(4); Minn. R. 7011.7200
The degreaser must 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); Minn. R. 7011.7200
The degreaser must be equipped with a primary condenser.	40 CFR Section 63.463(a)(6); Minn. R. 7011.7200
WORK PRACTICE STANDARDS	hdr
Control air disturbances across the degreaser opening(s) by using a reduced room draft as described in Section 63.463(e)(2)(ii).	40 CFR Section 63.463(d)(1)(ii); Minn. R. 7011.7200
The parts basket or the parts being cleaned shall not occupy more than 50 percent of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 3 feet per minute or less.	40 CFR Section 63.463(d)(2); Minn. R. 7011.7200
Any spraying operations shall be done within the vapor zone or within a section of the degreaser that is not directly exposed to the ambient air.	40 CFR Section 63.463(d)(3); Minn. R. 7011.7200
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 the degreaser unless an equally effective approach has been approved by the Administrator.	40 CFR Section 63.463(d)(4); Minn. R. 7011.7200
Parts baskets or parts shall not be removed from the degreaser until dripping has stopped.	40 CFR Section 63.463(d)(5); Minn. R. 7011.7200
During startup of the degreaser, the primary condenser shall be turned on before the sump heater.	40 CFR Section 63.463(d)(6); Minn. R. 7011.7200
During shutdown of the degreaser, 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); Minn. R. 7011.7200
When solvent is added or drained from the degreaser, 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); Minn. R. 7011.7200
The degreaser 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 Administrator's satisfaction to achieve the same or better results as those recommended by the manufacturer.	40 CFR Section 63.463(d)(9); Minn. R. 7011.7200
If requested during an inspection, each operator of the degreaser shall complete and pass the applicable sections of the test of solvent cleaning operating procedures in Appendix B of 40 CFR Section 63, subpart T.	40 CFR Section 63.463(d)(10); Minn. R. 7011.7200
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); Minn. R. 7011.7200
Sponges, fabric, wood, and paper products shall not be cleaned in the degreaser.	40 CFR Section 63.463(d)(12); Minn. R. 7011.7200
COMPLIANCE REQUIREMENTS	hdr
Reduced Room Draft -- OPERATION	40 CFR Section 63.463(e)(2)(ii); 40 CFR Section 63.463(e)(3); Minn. R. 7011.7200
Ensure that the flow or movement of air across the top of the freeboard area of the degreaser or within the degreaser enclosure does not exceed 50 feet per minute at any time.	
Establish and maintain the operating conditions under which the wind speed was demonstrated to be 50 feet per minute or less as described in 40 CFR 63.466(d).	
If any requirement is not met, determine if an exceedance has occurred using the criteria of Section 63.463(e)(3).	

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/11/03

Facility Name: Viking Drill & Tool Inc

Permit Number: 12300707 - 002

Superheated Vapor System: OPERATION	40 CFR Section 63.463(e)(2)(vi); Minn. R. 7011.7200
(A) Ensure that the temperature of the solvent vapor at the center of the superheated vapor zone is at least 10 degrees F above the solvents boiling point.	
(B) Ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system is followed.	
(C) Ensure that parts remain within the superheated vapor for at least the minimum proper dwell time.	
MONITORING	hdr
Conduct monitoring and record the results on a weekly basis for the control devices, as appropriate, specified in 40 CFR 63.466(a)(1) through (a)(5).	40 CFR Section 63.466(a)
Use a thermometer or thermocouple to measure the temperature on a weekly basis at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode.	40 CFR Section 63.466(a)(2)
Reduced Room Draft -- MONITORING	40 CFR Section 63.466(d); Minn R. 7011.7200
Conduct an initial monitoring test and monthly monitoring of the windspeed within the enclosure using the procedure specified in Section 63.466(d)(2)(i) and (d)(2)(ii), and monthly visual inspections of the enclosure to determine if it is free of cracks, holes, and other defects.	
(i) determine the direction of the wind current in the enclosure by slowly rotating a velometer inside the entrance to the enclosure until the maximum speed is located.	
(ii) record the maximum wind speed	
RECORDKEEPING	hdr
Maintain the following records in written or electronic form, for the lifetime of the degreaser:	40 CFR Section 63.467(a); Minn. R. 7011.7200
(1) Owner's manuals, or if not available, written maintenance and operating procedures, for the degreaser and control equipment.	
(2) The date of installation for the degreaser and all of its control devices.	
(3) (not applicable)	
(4) (not applicable)	
(5) Records of the halogenated HAP solvent content for each solvent used in the machine.	
Maintain the following records, in written or electronic form, for a period of 5 years:	40 CFR Section 63.467(b); Minn. R. 7011.7200
(1) The results of any required control device monitoring.	
(2) Information on the actions taken to comply with the applicable requirements of Sections 63.463(e) or (f), including records or written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.	
(3) Estimates of annual solvent consumption for each degreaser.	

TABLE B: SUBMITTALS

04/11/03

Facility Name: Viking Drill & Tool Inc
Permit Number: 12300707 - 002

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

04/11/03

Facility Name: Viking Drill & Tool Inc

Permit Number: 12300707 - 002

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 Actual Date of Initial Startup	due 15 days after Initial Startup. Submit the name and number of each unit and the actual date of initial startup each unit.	EU027
Notification of the Anticipated Date of Initial Startup	due 30 days before Anticipated Date of Initial Startup. Submit the name and number of each unit and the anticipated date of initial startup each unit.	EU027
Notification of the Date Construction Began	due 30 days after Start Of Construction. Submit the name and number of each unit and the date construction of each unit began.	EU027
Notification of the date of Equipment Removal/Dismantlement	due 15 days after Equipment Removal and/or Dismantlement. Submit the name and number of the unit and the date the unit was removed and/or dismantled.	EU002

TABLE B: RECURRENT SUBMITTALS

04/11/03

Facility Name: Viking Drill & Tool Inc

Permit Number: 12300707 - 002

What to send	When to send	Portion of Facility Affected
Report	<p>due 30 days after end of each calendar half-year starting 12/02/1994 (Exceedance Report), unless a different frequency is required as described in 40 CFR Section 63.468(h) or (i). The exceedance report shall include:</p> <p>(1) Information on the actions taken to comply with 40 CFR Section 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.</p> <p>(2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.</p> <p>(3) If no exceedances have occurred, or if a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.</p>	EU027
Semiannual Deviations Report	<p>due 30 days after end of each calendar half-year starting 06/04/2001 . 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.</p>	Total Facility
Compliance Certification	<p>due 30 days after end of each calendar year starting 06/04/2001 (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.</p>	Total Facility
Report	<p>due 31 days after end of each calendar year starting 12/02/1994. Report must include the following:</p> <p>(1) A signed statement from the facility owner or his designee stating that "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR Section 63.463(d)(10)."</p> <p>(2) An estimate of solvent consumption for each degreaser during the reporting period.</p>	EU027

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 12300707-002

This technical support document is intended for all parties interested in the permit. The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the permit.

1. General Information

1.1 Applicant and Stationary Source Location

Applicant/Address	Stationary Source/Address (SIC Code: 3545)
Viking Drill & Tool, Inc. 355 State Street St. Paul, MN 55107 Contact: Doug Rutford Safety & Environmental Director	Viking Drill & Tool, Inc. 355 State Street St. Paul, Ramsey County, MN

1.2 Description of the Permit Action

Viking Drill & Tool, Inc. is a manufacturer of twist drills. The primary source of emissions at the facility is the vapor degreaser, which is subject to 40 CFR pt. 63, subp. T, National Emission Standards for Halogenated Solvent Cleaning. Viking is replacing their vapor degreaser with another degreaser using a major amendment which will keep them major for Part 70 but a synthetic minor source for prevention of significant deterioration (PSD).

1.3 Description of any changes allowed with this permit issuance

Viking is replacing their vapor degreaser with another larger, more efficient degreaser.

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

This is the first amendment.

1.5 Facility Emissions

Table 1. Total Facility Potential to Emit Summary

EU	Emission Unit Description	VOC tpy	Single HAP tpy	All HAPs tpy
002	Old Degreaser	27.07	27.07	27.07
027	New Degreaser	30.5	30.5	30.5

Table 2. Facility and Permit Classification

Classification	Major/Affected Source	*Synthetic Minor	*Minor
PSD			All
NAAR			
Part 70 Permit Program	HAP		All others

* 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

Part 70 Permit Program – The facility is a major source under Part 70, due to the potential emissions of total and individual hazardous air pollutants, and due to the applicability of 40 CFR pt. 63, subp. T.

National Emission Standards for Hazardous Air Pollutants (NESHAP) – The facility's degreaser is subject to the work practice standards of 40 CFR pt. 63, subp. T, National Emission Standards for Halogenated Solvent Cleaning. The permit includes the requirements of the compliance options that the Permittee has selected under this standard. No other promulgated NESHAPs apply.

New Source Review – The facility is a non-major source under 40 CFR § 52.21, Prevention of Significant Deterioration.

New Source Performance Standards (NSPS) – The facility is not subject to any of the federal NSPS.

Table 3. Summary of Applicable Requirements

EU	Applicable Regulations	Comments:
EU027	40 CFR pt. 63, subp. T	National Emission Standards for Halogenated Solvent Cleaning

3. Technical Information

3.1 Calculations

Calculations of emissions from the degreaser were done using the 60% maximum achievable control technology (MACT) floor control combination.

$$PTE = E_{tu} - E_{tr}$$

Where: $E_{tu} = A \times E_u \times hr$

And: $E_{tr} = \text{MACT Floor 60\% control} \times E_{tu}$

Where:

$$E_{tu} = \text{Emissions, total uncontrolled lb/yr} = A \times E_u \times hr$$

$$E_{tr} = \text{Emissions, total reduced}$$

Eu = Uncontrolled degreaser emissions of 0.4 lbs/hr ft² as specified by EPA 40 CFR pt. 63 subp. T

PTE = potential to emit

hr = hours of operation = 8760 hr/yr

A = area of solvent/air interface = 43.5 ft²

$$E_{tu} = A \times E_u \times hr = 43.5 \text{ ft}^2 \times 0.4 \text{ lb/hr ft}^2 \times 8760 \text{ hr/yr} = 152,424 \text{ lb/yr}$$

$$E_{tr} = \text{MACT Floor } 60\% \times E_{tu} = 0.6 \times 152,424 \text{ lb/yr} = 91,454 \text{ lb/yr}$$

$$PTE = E_{tu} - E_{tr} = 152,424 \text{ lb/yr} - 91,454 \text{ lb/yr} = 60,970 \text{ lb/yr} = 30.49 \text{ tons/yr}$$

3.2 Periodic Monitoring

In accordance with the Clean Air Act, it is the responsibility of the owner or operator of a facility to have sufficient knowledge of the facility to certify that the facility is in compliance with all applicable requirements. To achieve this objective, the U.S. Environmental Protection Agency (EPA) requires periodic monitoring for permitted sources.

In evaluating the monitoring included in the permit, the Minnesota Pollution Control Agency (MPCA) considered the following:

- The likelihood of violating the applicable requirement.
- Whether add-on controls are necessary to meet an emission limit.
- The variability of emissions over time.
- The type of monitoring, process, maintenance, or control equipment data already available for the emission unit.

Table 4 summarizes the periodic monitoring requirements for those emission units for which the monitoring required by the applicable requirement is nonexistent or inadequate.

Table 4. Emission Units Subject to Periodic Monitoring

EU/GP/CE	Emission Limit (basis)	Additional Monitoring	Discussion
EU027	No limit – subject to work practice standards outlined in 40 CFR 63, Subpart T	None	Work practices must be consistent with the rule

4. Conclusion

Based on the information provided by Viking Drill & Tool, Inc.; the MPCA has reasonable assurance that the proposed installation of the new emission unit; as described in the Air Emission Permit No. 12300707-002 and this technical support document; will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.