DRAFT/PROPOSED

AIR EMISSION PERMIT NO. 05300319-002
Total Facility Operating Permit - Reissuance

IS ISSUED TO

Avtec Finishing Systems Inc

AVTEC FINISHING SYSTEMS INC.
9101 Science Center Drive
New Hope, Hennepin County, Minnesota 55428

The emission units, control equipment and emission stacks at the stationary source authorized in this permit reissuance are as described in the Permit Applications Table.

This permit reissuance supersedes Air Emission Permit No.05300319-001, and 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 are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

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

Permit Type: Federal; Part 70/Limits to Avoid New Source Review
Operating Permit Issue Date: <issue date>
Expiration Date: <expiration date > – All Title I Conditions do not expire.

Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit Reissuance	11/17/2010	002

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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:

Avtec Finishing Systems is a metal finishing job shop. The primary finishes offered are anodizing and dying aluminum parts; passivate die cast zinc, aluminum and steel parts; electroless nickel plating on steel, copper and aluminum parts, and electro polishing in a stainless steel part. Customers are primarily in the aerospace, electronics, and other commercial industries.

The facility consists of a batch cold solvent cleaning machine, 11 plating/anodizing lines with a total of 98 bath tanks, where some qualify as insignificant activities based on the quantity of emissions generated of hexavalent and trivalent chromium, nickel and cyanides compounds and hydrochloric acid, however some tanks are not considered insignificant activities and are included in the body of the permit (Group 12). Some metal parts are painted using less than 250gallon/year of paint.

The permit action is a reissuance of the Part 70 operating permit. The facility is a major source of HAPs, and is subject to the NESHAP for Halogenated Solvent Cleaning because the Permittee operates a cleaning machine with a total concentration in Trichloroethylene greater than 5 percent by weight.

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Avtec Finishing Systems Inc

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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
Permit Appendix: This permit contains an appendix as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendix.	Minn. R. 7007.0800, subp. 2
The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.	40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
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
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
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 control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices 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 practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subps. 14 and 16(J)
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
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
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)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
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
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Table A of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in an alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2018; Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2

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Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025, subp. 3
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Calibration: The Permittee shall calibrate all required monitoring equipment at least once every 12 months (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, unless otherwise specified within this permit, 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)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
REPORTING/SUBMITTALS	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

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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
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 - 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 - 7002.0095
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3100

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Subject Item: **GP 012 Process Tanks**

Associated Items:
EU 012 Nickel 1 Medium Phosphorus Electroless Nickel
EU 016 Nickel 1 Teflon Nickel Plate
EU 022 Nickel 13 Medium Phosphorus Electroless Nickel
EU 032 Zinc Diecast Chromate Black Chromate
EU 048 Hand Chromate Yellow Chromate
EU 071 Hardcoat/Chromate Line Chromate
EU 074 Hardcoat/Chromate Line Black Dye
EU 079 Anodize Line Black Dye
EU 082 Anodize Line Red Dye
EU 084 Anodize Line Blue Dye
EU 090 A-19, Nickel 1 - Black Nickel
EU 091 Anodize chromic strip
EU 092 Anodize Line- Olive Drab Dye
EU 093 Passivate Dichromate/ Nitric

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.30 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.

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Subject Item: **EU 001 Degreaser**

Associated Items: SV 001 Degreaser Roof Vent

What to do	Why to do it
EMISSION LIMITS/CONTROL REQUIREMENTS	hdr
Each cleaning machine shall be designed or operated to meet the control equipment or technique requirement of (1) or (2) below: (1) An idling and downtime mode cover, as described in 40 CFR Section 63.463(d)(1)(i), that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, or other defects. (2) A reduce droom draft as described in 40 CFR Section 63.463(e)(2)(ii).	40 CFR Section 63.463(a)(1); Minn. R. 7011.7200
The degreaser shall have a freeboard ratio of 0.75 or greater.	40 CFR Section 63.463(a)(2); Minn. R. 7011.7200
The degreaser must have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (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 of the sump heat if the sump liquid solvent level drops to the sump heater coil (does not apply to a vapor cleaning machine that uses steam to heat the solvent).	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 shall have a primary condenser.	40 CFR Section 63.463(a)(6); Minn. R. 7011.7200
Use the following control combination (Option 4): freeboard ratio of 1.0. reduced room draft, and superheated vapor.	40 CFR Section 63.463(b)(2)(i); Minn. R. 7011.7200
WORK PRACTICE STANDARDS	hdr
Control air distrubances across the degreaser by incorporating the control requirement or techniques in item (i) or (ii): (i) Cover(s) 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 40 CFR Section 63.463(e)(2)(ii).	40 CFR Section 63.463(d)(1); Minn. R. 7011.7200
The parts baskets or the parts being cleaned in an open-top batch vapor cleaning machine 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 0.9 meters per minute (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 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); Minn. R. 7011.7200
Parts Orientation: 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 equal 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 any solvent cleaning machine until dripping has stopped.	40 CFR Section 63.463(d)(5); Minn. R. 7011.7200
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); Minn. R. 7011.7200
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); Minn. R. 7011.7200
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); Minn. R. 7011.7200
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 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

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Appendix A: Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning procedures in 40 CFR section 63, subp. T, appendix A, if requested during an inspection by the Administrator.	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
OPERATING REQUIREMENTS	hdr
Conduct monitoring of each control device used to comply with 40 CFR Section 63.463 of this subpart as provided in 40 CFR Section 63.466.	40 CFR Section 63.463(e)(1); Minn. R. 7011.7200
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 as measured using the procedures in 40 CFR Section 63.466(d). An exceedance has occurred if the requirements of 40 CFR Section 63.463(e)(2)(ii)(A) have not been met and are not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The parameter must be remeasured immediately upon adjustment or repair and demonstrated to be within required limits.	40 CFR Section 63.463(e)(2)(ii)(A); 40 CFR Section 63.463(e)(3)(ii); Minn. R. 7011.7200
The Permittee shall establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in 40 CFR Section 63.466(d). An exceedance has occurred if the above requirement has not been met.	40 CFR Section 63.463(e)(2)(ii)(B); 40 CFR Section 63.463(e)(3)(i); Minn. R. 7011.7200
The Permittee shall 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. An exceedance has occurred if the above requirement has not been met and is not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The parameter must be re-measured immediately upon adjustment or repair and demonstrated to be within required limits.	40 CFR Section 63.463(e)(2)(vi)(A); 40 CFR Section 63.463(e)(3)(ii); Minn. R. 7011.7200
The Permittee shall ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system are followed. An exceedance has occurred if the above requirement has not been met.	40 CFR Section 63.463(e)(2)(vi)(B); 40 CFR Section 63.463(e)(3)(i); Minn. R. 7011.7200
The Permittee shall ensure that parts remain within the superheated vapor for at least the minimum proper dwell time. An exceedance has occurred if the above requirement has not been met.	40 CFR Section 63.463(e)(2)(vi)(C); 40 CFR Section 63.463(e)(3)(i); Minn. R. 7011.7200
MONITORING REQUIREMENTS	hdr
Weekly Temperature Monitoring: The Permittee shall use a thermometer or thermocouple to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode. The temperature shall be monitored and the results recorded on a weekly basis.	40 CFR Section 63.466(a)(2); 40 CFR Section 63.466(a); Minn. R. 7011.7200
Wind speed monitoring: The Permittee shall conduct an initial monitoring test and, thereafter, monthly monitoring tests of the wind speed within the enclosure using the procedure specified in (i) and (ii) below and a monthly visual inspection 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.	40 CFR Section 63.466(d)(2); Minn. R. 7011.7200
RECORDKEEPING REQUIREMENTS	hdr

The Permittee shall maintain the following records in written or electronic form for the lifetime of the degreaser: - Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment. - The date of installation for the solvent cleaning machine and all of its control devices. If the exact date of installation is not known, a letter certifying that the degreaser and its control devices were installed prior to, or on, November 29, 1993, or after November 29,1993, may be substituted. - Records of the halogenated HAP solvent content for each solvent used in the degreaser.	40 CFR Section 63.467(a); Minn. R. 7011.7200
The Permittee shall maintain the following records, in written or electronic form, for a period of 5 years: (1) The results of control device monitoring required under 40 CFR Section 63.466, which includes (a) the temperature at the center of the superheated solvent vapor zone, (b) the speed of the hoist (c) wind speed within the enclosure. (2) Information on the actions taken to comply with the applicable requirements of 40 CFR Section 63.463(e), including records or written or verbal orders for replacement parts, a description 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 solvent cleaning machine.	40 CFR Section 63.467(b); Minn. R. 7011.7200
REPORTING REQUIREMENTS	hdr
Trichloroethylene: less than or equal to 31020 pounds/year based on a 12-month rolling sum to be calculated by the 15 day of each month for the previous 12-month period as described later in this permit.	40 CFR Section 63.471(b)(2); Minn. R. 7011.7200
Solvent Additions/Deletions Log: The permittee shall maintain a log of solvent additions and deletions for each solvent cleaning machine.	40 CFR Section 63.471(b)(1); Minn. R. 7011.7200
Clean Liquid Solvent: The permittee shall, on the first operating day of every month, ensure that each solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soiled materials. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in paragraphs (c)(2) and (3) of this section. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.	40 CFR Section 63.471(c)(1); Minn. R. 7011.7200
Monthly Solvent Emissions Equation: The Permittee shall, on the first operating day of the month, using the records of all solvent additions and deletions for the previous month, determine solvent emissions (Eunit) from each solvent cleaning machine using the following equation: Eunit= SA - LSR - SSR Eunit = The total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent month (pounds of solvent per month) SA = The total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent month (pounds of solvent per month) LSR = The total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent month (pounds of solvent per month) SSR = The total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in paragraph (c)(3) of this section, during the most recent month (pounds of solvent per month).	40 CFR Section 63.471(c)(2); Minn. R. 7011.7200
Solid Solvent Removed (SSR): The permittee shall, on the first operating day of the month, determine SSR using the method specified in paragraph (c)(3)(i) or (c)(3)(ii) of this section. (i) From tests conducted using EPA reference method 25d. (ii) By engineering calculations included in the compliance report.	40 CFR Section 63.471(c)(3); Minn. R. 7011.7200

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12-month rolling total (unit): The Permittee shall on the first operating day of the month, determine the 12-month rolling unit total emissions, EunitTotal, for the 12-month period ending with the most recent month for all units using a halogenated HAP solvent, using the equation below: EunitTotal = Sum (Eunit1 + Eunit2 +... + Eunit12) Where: EunitTotal= The total halogenated HAP solvent emissions for a particular unit over the preceding 12 months (pounds) Eunit1= The total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent month (pounds of solvent per month) Eunit2 + □ + Eunit12 = The total halogenated HAP solvent emissions from the solvent cleaning machine from the previous 11 months (pounds)	40 CFR Section 63.471(c)(4); Minn. R. 7011.7200
Emission Report: The Permittee shall submit a solvent emission report every year. This solvent emission report shall contain the requirements specified below. (1) The average monthly solvent consumption for the affected facility in pounds per month. (2) The 12-month rolling total solvent emission estimates calculated each month using the method as described in 40 CFR Section 63.471(c). (3) This report shall be combined with the annual report listed in Table B of this permit, as required in Sec. 63.468(f) and (g) into a single report for each facility.	40 CFR Section 63.471(h); Minn. R. 7011.7200
Exceedance: If the applicable facility-wide emission limit presented in Table 1 of paragraph (b)(2) is not met, an exceedance has occurred. All exceedances shall be reported as required in Sec. 63.468(h).	40 CFR Section 63.471(d); Minn. R. 7011.7200
Exceedance report: Include the following information in the semi-annual or quarterly (as applicable) exceedance report required under Table B: - Information on the actions taken to comply with 40 CFR Section 63.463(e). This information shall include 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. - If an exceedance has occurred, the reason for the exceedance and a description of the actions taken. - If no exceedance has 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.	40 CFR Section 63.463(e)(4); 40 CFR Section 63.468(h); Minn. R. 7011.7200
Exceedance report reduce frequency: An owner or operator who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the following conditions are met: - The source has demonstrated a full year of compliance without an exceedance. - The owner or operator continues to comply with all relevant recordkeeping and monitoring requirements specified subpart A (General Provisions) and in this subpart. - The Administrator does not object to a reduced frequency of reporting for the affected source as provided in paragraph (e)(3)(iii) of subpart A (General Provisions).	40 CFR Section 63.468(i); Minn. R. 7011.7200

TABLE B: SUBMITTALS

Facility Name: Avtec Finishing Systems Inc

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Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:
- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

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

Chief Air Enforcement
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

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.

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.

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

Send any application for a permit or permit amendment to:

Fiscal Services
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

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

AQ Compliance Tracking Coordinator
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Avtec Finishing Systems Inc

Permit Number: 05300319 - 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

TABLE B: RECURRENT SUBMITTALS

Facility Name: Avtec Finishing Systems Inc

Permit Number: 05300319 - 002

What to send	When to send	Portion of Facility Affected
Report	due 30 days after end of each calendar half-year starting 08/09/2001 (Exceedance Report), unless the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred, follow a quarterly reporting format until a request to reduce reporting frequency under 40 CFR Section 63.468 (i) is approved. The exceedance report shall include the applicable information described in Table A, Subject Item EU001, under the subheading "REPORTING REQUIREMENTS."	EU001
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 12/05/2005 . 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 occured, the Permittee shall submit the report stating no deviations.	Total Facility
Annual Report	due 32 days after end of each calendar year starting 08/09/2001, to include the following information: - 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)." - An estimate of solvent consumption for each solvent cleaning machine during the reporting period.	EU001
Compliance Certification	due 30 days after end of each calendar year starting 12/05/2005 (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

APPENDIX I
Facility Name: Avtec Finishing Systems Inc
Permit Number: 05300319-002

Insignificant Activities and Applicable Requirements

The table below lists the insignificant activities that are currently at the facility and their associated general applicable requirements.

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Applicable Requirement
3(B)	Furnaces, boilers, and incinerators:	
	2. fuel burning equipment with a capacity less than 420,000 Btu/hour, but only if the total combined capacity of all fuel burning equipment at the stationary source with a capacity less than 420,000 Btu/hour is less than or equal to 1,400,000 Btu/hour. Facility operates 3 natural gas boilers with total capacity of 50.900 Btu/hr.	Minn. R. 7011.0510/0515 *OR* Minn. R. 7011.0610 + Minn. R. 7011.1215, subp. 3
3(G)	Emissions from a laboratory, as defined in the subpart. Facility operates a laboratory on-site.	Minn. R. 7011.0510/0515 + Minn. R. 7011.0610 + Minn. R. 7011.0710/0715
3(H)	Miscellaneous:	
	3. brazing, soldering or welding equipment; Facility operates welding equipment as part of maintenance activities.	Minn. R. 7011.0510/.0515 + Minn. R. 7011.0610 + Minn. R. 7011.0710/0715
	7. cleaning operations: alkaline/phosphate cleaners and associated cleaners and associated burners. Facility operates alkaline/phosphate cleaners.	Minn. R. 7011.0510/.0515 + Minn. R. 7011.0610 + Minn. R. 7011.0710/0715
3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone; and 3. 1,000 tons/year of CO_2e Avtec has all the following emission units (tanks) that	Minn. R. 7011.0715

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Applicable Requirement
	qualify under subpart 3 (I)(1 & 2): 10,14,15,18,2,3,4,5,8,9,24,25,26,27,28,29,30,31,35,36, 37,38,39,45,46,47,52,53,54,55,56,57,72,75,76,77,80,81, 83,86, 94-111, 114-125.	

Insignificant Activities Required to Be Listed for Part 70 sources

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Applicable Requirement
4	Individual emissions units at a stationary source, each of which has: A. Potential emissions of 5.7 pounds per hour or actual emissions of two tons per year of carbon monoxide; B. Potential emissions of 2.28 pounds per hour or actual emissions of one ton per year for particulate matter, particulate matter less than ten microns, nitrogen oxide, sulfur dioxide, and VOCs; C. For hazardous air pollutants, emissions units with: (1) potential emissions of 25 percent or less of the hazardous air pollutant thresholds listed in subp. 5; or (2) combined HAP actual emissions of one ton per year unless the emissions unit emits one or more of the HAPs listed in this subpart; AND D. Potential emissions up to 10,000 tons per year or actual emissions up to 1,000 tons per year of CO_2e. Avtec has all the following plating tanks that qualify under subpart 4 (B) &(C)(1): 11,13,17,19,6,7,20,21,23,42,41,49,50,70,73,78,85,112,113.	Minn. R. 7011.0715

Conditionally Insignificant Activities

	Rule Description of the Activity	Applicable Requirement
Minn. R.	Total VOC Usage at the stationary source less than 200	Minn. R. 7011.0710/0715

	Rule Description of the Activity	Applicable Requirement
7008.4100	gallons or 2000 pounds in each calendar year. See Minn. R. 7008.4100 for recordkeeping and calculation requirements for this activity. Company has a spray booth that uses 20 gallon/year of paint and solvent.	