

**AIR EMISSION PERMIT NO. 10900051- 001**

**IS ISSUED TO**

**HALCON CORPORATION**  
1811 Second Avenue Northeast  
Stewartville, Olmsted County,  
Minnesota 55976

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:  
Total Facility Operating Permit

Application Date:  
April 12, 1995, July 30, 1996, and July 31, 1996

This permit authorizes the Permittee to operate and modify 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 and with all general conditions listed in Minn. R. 7007.0800, subp. 16, which are incorporated by reference. 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:** State; Synthetic Minor Part 70

**Issue Date:** January 22, 1997

**Expiration:** Permit does not expire  
All Title I Conditions do not expire.

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Michael J. Sandusky  
Acting Division Manager  
Air Quality Division

for Peder A. Larson  
Commissioner  
Minnesota Pollution Control Agency

JKD:csa

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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	(612)296-6300
Outside Metro Area	1-800-657-3864
TTY	(612)282-5332

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

The permit shield, however, does not apply to: Minn. R. ch. 7030 (Noise Pollution Control.)

**FACILITY DESCRIPTION:**

Halcon Corporation manufactures wood office furniture from solid woods and veneered particle board. Processes conducted at the facility include veneering, woodworking, and spray finishing. Particulate Matter emissions are controlled by a baghouse and two cyclone systems. Volatile Organic Compound and Hazardous Air Pollutant emissions are controlled through usage limitations. The facility is heated by natural gas space heaters.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 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**

<b>What to do</b>	<b>Why to do it</b>
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)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment.	Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Shutdowns: Notify the Commissioner at least 24 hours in advance of shutdown of any process or control equipment if the shutdown would cause an increase in the emission of air contaminants. At the time of notification, notify the Commissioner of the cause of the shutdown and the estimated duration. Notify the Commissioner again when the shutdown is over.	Minn. R. 7019.1000, subp. 1
Breakdowns: Notify the Commissioner immediately of a breakdown of more than one hour duration of any process or control equipment if the breakdown causes an increase in the emission of air contaminants. At the time of notification or as soon thereafter as possible, the permittee shall also notify the Commissioner of the cause of the breakdown and the estimated duration. Notify the Commissioner again when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Monitoring Equipment: Install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring equipment is not installed and operational on the date the permit is issued.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown or during checks of the monitoring systems, such as calibration checks, and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
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
Oral Notification of Deviations Endangering Human Health or the Environment: Within 24 hours of discovery, orally notify the Commissioner of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7007.0800, subp. 6(A)
Discovery of Deviations Endangering Human Health or the Environment Report (written): due two working days after discovery of deviation, submit a written description of any deviation endangering human health or the environment to the Commissioner. Include the following information in this written description: cause of the deviation; exact dates of the period of the deviation; if the deviation has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7007.0800, subp. 6(A)
Application for Permit Amendment: If you need a permit amendment, submit 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
Emission Fees: due 60 days after receipt of an MPCA bill	Minn. R. 7002.0005 through Minn. R. 7002.0095
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
Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its representative, to enter the Permittee's premises, to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location.	Minn. R. 7007.0800, subp. 9(A)
Record keeping: 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)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

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 strip-chart 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)
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)
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 federally enforceable.	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

# TABLE A: LIMITS AND OTHER REQUIREMENTS

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** GP 001 VOC emission sources

**Associated Items:** EU 001 Splicer for gluing  
 EU 002 Zig Zag Splicer for gluing  
 EU 003 Hot Press for gluing  
 EU 004 Glue Spreader  
 EU 010 Glue Clamp Carrier  
 EU 011 Several Hand Gluing Station  
 EU 014 Topcoat Spray Booth #1  
 EU 015 Shade Spray Booth #2  
 EU 016 Sealer Spray Booth #3  
 EU 017 Shade or Topcoat Spray Booth #6  
 EU 018 Drawer Spray Booth #7  
 EU 019 Pre-stain Spray Booth #8  
 EU 020 Wipe-stain Spray Booth #9  
 EU 021 Dryer Room #1  
 EU 022 Dryer Room #2  
 EU 023 Storage/Mixing Room for Coatings  
 EU 026 1st possible future spraybooth  
 EU 027 2nd possible future spraybooth  
 SV 001  
 SV 003  
 SV 004  
 SV 005  
 SV 006  
 SV 007  
 SV 008  
 SV 009  
 SV 010  
 SV 013  
 SV 014

What to do	Why to do it
VOC Usage: less than or equal to 99 tons/year using 12 Month Rolling Sum calculated monthly. All VOC emission sources added to GP001 as allowed in this permit and under Minn. R. 7007.1300 shall be included in this calculation. VOC content shall be determined as described under Material Content.	Title I Condition: Limit to avoid major source and modification classification under 40 CFR 52.21; to avoid major source classification under 40 CFR 70.2
Total HAP Usage: less than or equal to 24.5 tons/year using 12 Month Rolling Sum calculated monthly. All HAPs emission sources added to GP001 as allowed in this permit and under Minn. R. 7007.1300 shall be included in this calculation. HAP content shall be determined as described under Material Content.	To avoid major source classification under 40 CFR 70.2 and 40 CFR 63.2
Single HAP Usage: less than or equal to 9.5 tons/year using 12 Month Rolling Sum calculated monthly. All HAP emission sources added to GP001 as allowed in this permit and under Minn. R. 7007.1300 shall be included in this calculation. HAP content shall be determined as described under Material Content.	To avoid major source classification under 40 CFR 70.2 and 40 CFR 63.2
Material Content: HAP and VOC content 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. Other alternative methods approved by the MPCA may be used to determine the VOC and HAP content for demonstrating compliance with VOC and HAP usage limits. The Division Manager reserves the right to require the Permittee to take samples of the VOC and HAP content as per EPA reference methods for the purposes of compliance demonstration. If the EPA reference method is used, it shall supersede the MSDS.	Title I Condition: monitoring for limit to avoid major source and modification classification under 40 CFR 52.21; and to avoid major source classification under 40 CFR 70.2 and 40 CFR 63.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

<p>The permittee may add up to two (2) additional spraybooths (EU 026 and EU 027) under GP 001 during the life of this permit, provided VOC and HAP emissions may be tracked directly from material usage. Each added spraybooth with associated control equipment and stack added must meet the requirements for GP 001. Upon installation, the two added spraybooths with associated control equipment and stacks added under GP 001 must meet the requirements listed under CE 011 and SV 013 for the first spraybooth (EU 026), and under CE 012 and SV 014 for the second spraybooth (EU 027). All other permit limits must be met.</p>	<p>Minn. R. 7007.0800, subp. 2 and Minn. R. 7007.0800, subp. 14</p>
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**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 002

**Associated Items:** EU 005 Router  
EU 006 Panel Saw  
EU 007 Edge Bander  
EU 008 Point-to-Point Drill  
EU 009 Point-to-Point Drill  
EU 012 Sander  
EU 013 Stroke Sander

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 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)
The permittee shall vent emissions from emission units connected to SV002 through a baghouse when the emission units are operating.	Title I Condition: To ensure compliance with total particulate matter emission limit required to avoid major source classification under 40 CFR 52.21 and 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) & (B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 004**Associated Items:** EU 014 Topcoat Spray Booth #1

GP 001 VOC emission sources

GP 002 Spraybooths

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 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)
The permittee shall vent emissions from emission units connected to SV004 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 005**Associated Items:** EU 015 Shade Spray Booth #2

GP 001 VOC emission sources

GP 002 Spraybooths

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 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)
The permittee shall vent emissions from emission units connected to SV005 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 006**Associated Items:** EU 016 Sealer Spray Booth #3

GP 001 VOC emission sources

GP 002 Spraybooths

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 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)
The permittee shall vent emissions from emission units connected to SV006 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 007**Associated Items:** EU 017 Shade or Topcoat Spray Booth #6

GP 001 VOC emission sources

GP 002 Spraybooths

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 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)
The permittee shall vent emissions from emission units connected to SV007 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 008**Associated Items:** EU 018 Drawer Spray Booth #7

GP 001 VOC emission sources

GP 002 Spraybooths

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 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)
The permittee shall vent emissions from emission units connected to SV008 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 009**Associated Items:** EU 019 Pre-stain Spray Booth #8

GP 001 VOC emission sources

GP 002 Spraybooths

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 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)
The permittee shall vent emissions from emission units connected to SV009 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 010**Associated Items:** EU 020 Wipe-stain Spray Booth #9

GP 001 VOC emission sources

GP 002 Spraybooths

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 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)
The permittee shall vent emissions from emission units connected to SV010 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 011**Associated Items:** EU 024 Eurovac 1 - Dust Extraction System (1)

GP 003 Cyclones

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 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)
The permittee shall vent emissions from emission units connected to SV011 through a cyclone when the emission units are operating.	Title I Condition: To ensure compliance with total particulate matter emission limit required to avoid major source classification under 40 CFR 52.21 and 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) & (B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 012**Associated Items:** EU 025 Eurovac 1 - Dust Extraction System (2)

GP 003 Cyclones

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 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)
The permittee shall vent emissions from emission units connected to SV012 through a cyclone when the emission units are operating.	Title I Condition: To ensure compliance with total particulate matter emission limit required to avoid major source classification under 40 CFR 52.21 and 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) & (B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 013**Associated Items:** EU 026 1st possible future spraybooth

GP 001 VOC emission 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 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)
The permittee shall vent emissions from emission units connected to SV013 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** SV 014**Associated Items:** EU 027 2nd possible future spraybooth

GP 001 VOC emission 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 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)
The permittee shall vent emissions from emission units connected to SV014 through a HEPA or other wall filter when the emission units are operating.	Title I Condition: To avoid major source classification under 40 CFR 52.21 and 40 CFR 70.2; to ensure compliance with Minn. R. 7007.0715, subp. 1(A) and 1(B); Minn. R. 7007.0800, subp.2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 001 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**Associated Items:** EU 005 Router

EU 006 Panel Saw

EU 007 Edge Bander

EU 008 Point-to-Point Drill

EU 009 Point-to-Point Drill

EU 012 Sander

EU 013 Stroke Sander

What to do	Why to do it
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Inspect quarterly, or as required by manufacturing specifications, all components that are not subject to wear or plugging, including structural components housing ducts, and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Calibrate the pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
The permittee may replace the individual woodworking equipment connected to CE 001. All replacement units must meet all permit requirements of the units they replace. The permittee may add new woodworking equipment to CE 001. Units added under this condition that use VOC or HAP must also be added to and meet the requirements under GP 001. All other permit limits must be met.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
The permittee shall keep and maintain a list of all equipment connected to CE 001 at any time. The list shall be updated anytime equipment is replaced or added. This list shall include equipment vented through the baghouse that might otherwise be classified as insignificant activities under Minn. R. 7007.1300.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 002 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 014 Topcoat Spray Booth #1

GP 002 Spraybooths

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurrence Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 003 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 015 Shade Spray Booth #2

GP 002 Spraybooths

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurrence Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 004 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 016 Sealer Spray Booth #3

GP 002 Spraybooths

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurrence Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 005 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 017 Shade or Topcoat Spray Booth #6

GP 002 Spraybooths

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurrence Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 006 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 018 Drawer Spray Booth #7

GP 002 Spraybooths

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurrence Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 007 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 019 Pre-stain Spray Booth #8

GP 002 Spraybooths

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurrence Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 008 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 020 Wipe-stain Spray Booth #9

GP 002 Spraybooths

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurrence Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 009 Centrifugal Collector - High Efficiency**Associated Items:** EU 024 Eurovac 1 - Dust Extraction System (1)

GP 003 Cyclones

What to do	Why to do it
Pressure Drop: greater than or equal to 1 inches of water column and less than or equal to 30 inches of water column or as determined once normal operation has begun, recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
The permittee may replace the individual woodworking equipment connected to EU 024 or move equipment between EU 024 and EU 025. All replacement units must meet all permit requirements of the units they replace. The permittee may add new woodworking equipment to EU 024. All new, moved or replaced units connected to EU 024 must be controlled by the filter systems described as CE 009. Units added under this condition that use VOC or HAP must also be added to and meet the requirements under GP 001. All other permit limits must be met.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
The permittee shall keep and maintain a list of all equipment connected to EU 024 at any time. The list shall be updated anytime equipment is moved, replaced, or added. This list shall include equipment vented through the cyclones that might otherwise be classified as insignificant activities under Minn. R. 7007.1300.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Inspect quarterly, or as required by manufacturing specifications, all components that are not subject to wear or plugging, including structural components housing ducts, and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Calibrate the pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
When emissions are exhausted outdoors, record pressure drop every 24 hours if in operation.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 010 Centrifugal Collector - High Efficiency**Associated Items:** EU 025 Eurovac 1 - Dust Extraction System (2)

GP 003 Cyclones

What to do	Why to do it
Pressure Drop: greater than or equal to 1 inches of water column and less than or equal to 30 inches of water column or as determined once normal operation has begun, recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
The permittee may replace the individual woodworking equipment connected to EU 025 or move the units between EU 024 and EU 025. All replacement units must meet all permit requirements of the units they replace. The permittee may add new woodworking equipment to EU 025. All new, moved or replaced units connected to EU 025 must be controlled by the filter systems described as CE 010. Units added under this condition that use VOC or HAP must also be added and meet the requirements listed under GP 001. All other permit limits must be met.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
The permittee shall keep and maintain a list of all equipment connected to EU 025 at any time. The list shall be updated anytime equipment is moved, replaced, or added. This list shall include equipment vented through the cyclones that might otherwise be classified as insignificant activities under Minn. R. 7007.1300.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Inspect quarterly, or as required by manufacturing specifications, all components that are not subject to wear or plugging, including structural components housing ducts, and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
Calibrate the pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14
When emissions are exhausted outdoors, record pressure drop every 24 hours if in operation.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 011 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 026 1st possible future spraybooth

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurance Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 001

**Subject Item:** CE 012 Fiberglass Filter w/o Cardboard Frame**Associated Items:** EU 027 2nd possible future spraybooth

What to do	Why to do it
Pressure Drop: greater than or equal to 0.0 inches of water column and less than or equal to 0.6 inches of water column recorded once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Monitoring and recordkeeping (Paint Filters): Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filter(s) condition every 24 hours if in operation.	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 92 percent collection efficiency	Minn. R. 7011.0065, subp. 1(A)
The permittee shall submit to the Commissioner a monitoring report if there are deviations from the specified pressure drop range for more than five percent of the pressure drop measurements taken in a calendar quarter. This report shall be submitted on the Deviation Occurance Reporting Form and shall be due within 30 days after the end of each calendar quarter that it is required.	Minn. R. 7011.0075, subp. 5(B)
The permittee shall operate the control equipment monitoring equipment at all times the control equipment is required to operate in compliance with Minn. R. 7011.0075	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0075, subp. 3
A. Maintain an inventory of spare parts that are subject to frequent replacement as required by the manufacturing specification or documented in records under items H and I.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
B. Train staff on the operation and monitoring of control equipment and troubleshooting, and train and require staff to respond to indicators of abnormal operation;	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
C. Thoroughly inspect all control equipment at least annually, or as required by the manufacturing specification (this often requires shutting down temporarily)	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
D. Inspect monthly, or as required by the manufacturing specification, components that are subject to wear or plugging, for example: bearings, belts hoses, fans nozzles, orifices and ducts	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
E. Inspect quarterly, or as required by the manufacturing specification, components that are not subject to wear including structural components, housings, ducts and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
F. Check daily, or as required by the manufacturing specification, monitoring equipment, for example: pressure guages, chart recorders, temperature indicators, and recorders.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
G. Calibrate each pressure gauge annually, or as often as required by manufacturing specifications and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
H. Maintain a record of activities conducted in items A to G consisting of the activity completed, the date the activity was completed, and any corrective action taken	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
I. Maintain a record of parts replaced, repaired, or modified for the previous five years	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0075, subp. 2
Operate and maintain control equipment to limit Particulate Matter < 10 micron: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)
Operate and maintain control equipment to limit Total Particulate Matter: greater than or equal to 80 percent capture efficiency	Minn. R. 7011.0065, subp. 1(A)



## TABLE B: SUBMITTALS

01/22/97

Facility Name: Halcon Corporation  
Permit Number: 10900051 - 001

Table B lists the submittals you must send to the Commissioner. Table B is divided into two sections, for source-specific submittal requirements and for submittals required of all permittees. Source-specific submittals are further organized as either one-time only or recurrent requirements. You may also be subject to additional reporting requirements contained in the compliance schedule located in Table C of this permit. All submittals must be postmarked or received by the date specified in the table, and certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Submittals which must be provided on standardized forms approved by the Commissioner are noted in Tables B and C.

Send any application for a permit or permit amendment to: Permit Information Coordinator, Permit Section, Air Quality Division, Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4914. Also send the Permit Information Coordinator notices of: accumulated insignificant activities, installation of control equipment, replacement of an emissions unit, and changes that contravene a permit term.

Send all other submittals to: Compliance Tracking Coordinator, Compliance Determination Unit, Air Quality Division, Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

**TABLE B: RECURRENT SUBMITTALS**

01/22/97

Facility Name: Halcon Corporation

Permit Number: 10900051 - 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 report covers January 1 - June 30. The second report covers July 1 - December 31.	Total Facility
Compliance Certification	due 30 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.	Total Facility
Emissions Inventory Report	due 91 days after end of each calendar year following Permit Issuance (April 1). To be submitted on a form approved by the Commissioner.	Total Facility
Notification	due 30 days after end of each calendar year following Permit Issuance. The notification shall address all changes made to CE 001, CE 009, CE 010, and GP 001 and the addition of either or both of the potential new spraybooths associated with CE 011, CE 012, EU 026, EU 027, GP 001, SV 013 and SV 014.	Total Facility

**TECHNICAL SUPPORT DOCUMENT**  
**For**  
**DRAFT AIR EMISSION PERMIT NO. 10900051-001**

This technical support document is for all the interested parties of the draft permit and to meet the requirements that have been set forth by the federal regulations and Minnesota Rules (40 CFR, Section 70.7(a)(5) and Minn. Rules pt. 7007.0850, subp. 1.) 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 draft permit.

1. General Information

1.1. Applicant and Stationary Source Location:

Applicant/Address	Stationary Source/Address (SIC Code: 2521 )
Halcon Corporation	Halcon Corporation
1811 2nd Ave NE	1811 2nd Ave NE
Stewartville, MN 55976	Stewartville, MN 55976

1.2. Description Of The Permit Action

This permit is a non-expiring State total facility operating permit. Emission units at the existing facility include wood working equipment, gluing, seven spraybooths, two drying rooms, two wood waste storage box fugitive emission sources and 26 natural gas fired space heaters. Pollution control equipment existing at the facility include a baghouse and two cyclones to control particulate emissions from woodworking equipment and fiberglass filters to control particulate emissions from the spraybooths. The permit incorporates a modification at the facility that will allow external venting of two currently internally vented cyclones. The addition and replacement of woodworking equipment connected to the cyclones and the baghouse and movement of woodworking equipment between the two cyclones is allowed by the permit. The permit also allows the installation and operation of two additional spraybooths with associated control equipment and stacks during the life of the permit. The permit requires an annual notification of emission unit changes allowed by the permit. The specific type of control equipment used on these two additional spraybooths at the facilities discretion; however, the control equipment used must meet the capture and collection efficiencies given in the permit. An Environmental Assessment Worksheet (EAW) or an Environmental Impact Statement (EIS) is not required and has not been conducted. The MPCA received a complete permit application for this total facility permit on August 1, 1996.

1.3. Emissions of the Facility and Proposed Modification

A baghouse filter system and two cyclones will be used to control particulate emissions from woodworking equipment. Particulate emissions from each of the spraybooths will be controlled by fiberglass filters. The facility has proposed federally enforceable usage limits on both Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) and has proposed to operate pollution control equipment for particulate matter to avoid major source classification under all federal air permitting programs (40 CFR 70, 40 CFR 63, and 40 CFR 52.21); therefore, the proposed permit is a state operating permit (Minn. R. 7007.0850 subp. 2).

**Table 1. Total Facility Potential to Emit Summary and Attainment Status:**

Pollutant	Potential to Emit (Tons/year =TPY)	Attainment or Unclassified? (Yes or No)
Particulate Matter (PM)	69.3	N/A
Particulate Matter less than 10 micron (PM10)	69.3	Yes
Sulfur Dioxide (SO2)	0.0	Yes
Nitrogen Oxides (NOx)	5.5	Yes
Volatile Organic Compounds (VOCs)/Ozone	99.2	Yes
Carbon Monoxide (CO)	1.2	Yes
Lead	0.0	Yes
Hazardous Air Pollutants (Total HAP)	24.5	N/A
Hazardous Air Pollutants (each individual HAP)	9.5	N/A

**Table 2. Facility Classification**

Classification (put x in appropriate box)	Major	Synthetic Minor	Minor	N/A
Prevention of Significant Deterioration		X		
Non Attainment Area (list pollutant)				X
Operating Permit Program		X		

**Table 3. Potential to Emit Allowed in the Proposed Modification**

Pollutant	Potential to Emit from the modification (TPY)	PSD*/NAAR** Significant Threshold Level (TPY)	PSD* or NAAR** Review Required (Yes or No)
PM	5.4	250	No
PM10	2.7	250	No
SO2	0.0	250	No
NOx	0.0	250	No
VOC	0.0	250	No
CO	0.0	250	No
Lead	0.0	250	No

\*Federal Prevention of Significant Deterioration Regulation, 40 CFR Part 52.21

\*\*Non-Attainment Area Review, 40 CFR part 51, Appendix S

## 2. Regulatory and/or Statutory Basis of Emission Limit

### Overall Facility Requirements:

All general requirements and one site specific condition are listed at the total facility level. See attached CD-01 forms for specific limits. The Permittee is required to submit an annual compliance certification which evaluates the compliance status of the facility. The permittee must determine and certify that the facility is in compliance with all permit limits and requirements, all applicable requirements and Minn. R. 7007.0100 to 7007.1850.

### Flexibility:

The permit incorporates a modification at the facility that will allow external venting of two currently internally vented cyclones which control particulate emissions from woodworking equipment. The permit allows the addition and replacement of woodworking equipment on each of the two cyclone particulate control systems and movement of woodworking equipment between the two cyclone particulate control systems. The permit also allows the installation and operation of two additional spraybooths with associated control equipment and stacks during the life of the permit. The permit requires an annual notification of emission unit changes allowed by the permit. The specific type of control equipment used on these two additional spraybooths is at the facilities discretion; however, the control equipment used must meet the capture and collection efficiencies given in the permit. Pressure drop across these spraybooth particulate control devices will be determined from manufacturers information and/or actual operating use.

Control Equipment I.D.

CE 001- Fabric Filter - Low Temperature, i.e.,  
T<180 Degrees F

Stack/Vent I.D.:

SV 002

Emission Unit I.D./

EU 005, 006, 007, 008, 009, 012, 013

Description:

Router, Panel Saw, Edge Bander, Point-to-Point Drill, Point-to-Point Drill, Sander, Stroke Sander (respectively)

Emission Limit and/or Special Conditions:

See CD-01 forms for limits and basis

Factual and legal basis for above:

See CD-01 forms for limits and basis

Comments:

The grain loading limit on this stack/vent will be met with the fabric filter. The baghouse system must be maintained as shown under the "What to do" column for Subject Item: CE 001 in the draft permit.

The permittee must keep records of equipment connected to the baghouse at all times. The permittee is allowed to add and replace wood working equipment connected to the baghouse.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 002  
SV 004  
EU 014  
Topcoat Spray Booth #1  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 002 in the draft permit.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 003  
SV 005  
EU 015  
Shade Spray Booth #2  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 003 in the draft permit.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 004  
SV 006  
EU 016  
Sealer Spray Booth #3  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 004 in the draft permit.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 005  
SV 007  
EU 017  
Shade or Topcoat Spray Booth #6  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 005 in the draft permit.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 006  
SV 008  
EU 018  
Drawer Spray Booth #7  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 006 in the draft permit.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 007  
SV 009  
EU 019  
Pre-stain Spray Booth #8  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 007 in the draft permit.



Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 008  
SV 010  
EU 020  
Wipe-stain Spray Booth #9  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 008 in the draft permit.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 011  
SV 013  
EU 026  
1st possible future spraybooth  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 011 in the draft permit.

Control Equipment I.D.  
Stack/Vent I.D.:  
Emission Unit I.D./  
Description:  
Emission Limit and/or Special Conditions:  
Factual and legal basis for above:  
Comments:

CE 012  
SV 014  
EU 027  
2nd possible future spraybooth  
See CD-01 forms for limits and basis  
See CD-01 forms for limits and basis  
The spraybooth is required to achieve 80% capture and 92% collection efficiency of Total Particulate Matter and Particulate Matter less than 10 microns. The spraybooth must be maintained as shown under the "What to do" column for Subject Item: CE 012 in the draft permit.

Control Equipment I.D.

Stack/Vent I.D.:

Emission Unit I.D./

Description:

Emission Limit and/or Special Conditions:

Factual and legal basis for above:

Comments:

CE 009

SV 011

EU 024

Eurovac 1 - Dust Extraction System (1)

See CD-01 forms for limits and basis

See CD-01 forms for limits and basis

The grain loading limit on this stack/vent will be met with the cyclone. The control equipment must be maintained as shown under the "What to do" column for Subject Item: CE 009 in the draft permit.

The permittee must keep records of equipment connected to each dust extraction system at all times. The permittee is allowed to add and replace woodworking equipment connected to the system, and also to move woodworking equipment between the two dust extraction systems.

Control Equipment I.D.

Stack/Vent I.D.:

Emission Unit I.D./

Description:

Emission Limit and/or Special Conditions:

Factual and legal basis for above:

Comments:

CE 010

SV 012

EU 025

Eurovac 1 - Dust Extraction System (2)

See CD-01 forms for limits and basis

See CD-01 forms for limits and basis

The grain loading limit on this stack/vent will be met with the cyclone. The control equipment must be maintained as shown under the "What to do" column for Subject Item: CE 010 in the draft permit.

The permittee must keep records of equipment connected to each dust extraction system at all times. The permittee is allowed to add and replace woodworking equipment connected to the system, and also to move woodworking equipment between the two dust extraction systems.

Stack/Vent I.D.:	SV001, 003, 004, 005, 006, 007, 008, 009 and 010
Emission Unit I.D./ Description:	EU 001, 002, 003, 004, 010, 011, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023 VOC Emission Sources (GP 001): Spicer for gluing, Zig Zag Splicer for gluing, Hot Press for gluing, Glue Spreader, Glue Clamp Carrier, Several Hand Gluing Stations, Topcoat Spray Booth #1, Shade Spray Booth #3, Shade or Topcoat Spray Booth #6, Drawer Spray Booth #7, Pre-stain Spray Booth #8, Wipe-stain Spray Booth #9, Dryer Room #1, Dryer Room #2, Storage/Mixing Room for Coatings (respectively)
Emission Limit and/or Special Conditions:	See CD-01 forms for limits and basis
Factual and legal basis for above:	See CD-01 forms for limits and basis
Comments:	The usage of VOC and HAPs are limited to below major source thresholds using a 12 month rolling sum calculated monthly. Records will be kept using purchase records.
	VOC usage from the two possible future spraybooths will be included in the calculation.

### 3. Conclusion

Based on the information provided by the Halcon Corporation, the MPCA has reasonable assurance that the proposed modification and operation of the emission facility, as described in the Air Emission Permit No. 10900051-001 and this technical support document, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Attachments:	Need further information?
1. GI-07 Facility Emission Summary 2. EC forms for Calculations	Permit Engineer: Jolene Durand Telephone No.: (612)296-7773