

**AIR EMISSION PERMIT NO. 10900051- 002
IS ISSUED TO**

Halcon Corporation

HALCON CORPORATION
1811 2nd 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	Application Date
Total Facility Operating Permit	04/12/95
Major Amendment	11/03/97

This permit authorizes the Permittee to operate and construct the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit and with all general conditions listed in Minn. R. 7007.0800, subp. 16, and all standard permit requirements listed in 40 CFR § 70.6(a) 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 ; Syn Min Part 70

Issue Date: January 8, 1998

Expiration: All Title I Conditions do not expire.

Michael J. Sandusky
Acting Division Manager
Air Quality Division

for Peder A. Larson
Commissioner
Minnesota Pollution Control Agency

BB:lao

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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).

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item:**Total Facility**

What to do	Why to do it
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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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
Emission Units 16, 18, 20, 22, and 27 shall be removed from the facility no later than September 30, 1998.	Minn. R. 7007.0800, subp. 2
Emission Units 14, 15, 17, and 26 will be moved to their new location within the facility no later than September 30, 1998.	Minn. R. 7007.0800, subp. 2
Notify: Within 30 days of removal or moving of existing emission units, the Permittee shall notify the MPCA.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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 Drawer Spray Booth #5
- EU 027 2nd possible future spraybooth
- EU 028 Pre-Stain Booth
- EU 029 Wiping Stain Booth
- EU 030 Sealer Booth
- EU 031 Shade/Topcoat Booth #1
- EU 032 Shade/Topcoat Booth #2
- EU 033 2nd Topcoat Booth
- EU 034 3rd Topcoat Booth
- SV 001
- SV 003
- SV 004
- SV 005
- SV 006
- SV 007
- SV 008
- SV 009
- SV 010
- SV 013
- SV 014
- SV 015
- SV 016
- SV 017
- SV 018
- SV 019
- SV 020
- SV 021
- SV 022
- SV 023

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Associated Items: SV 024

SV 025

What to do	Why to do it
VOC Usage: less than or equal to 99 tons/year using 12-month Rolling Sum calculated monthly by the 15th day of each month. All VOC emission sources added to GP001, including cleaning solutions, 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 by the 15th day of each month. All HAPs emission sources added to GP001, including cleaning solvents, 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 by the 15th day of each month. All HAP emission sources added to GP001, including cleaning solvents, 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
Material Content: HAP & VOC content shall be recorded in lbs and tons per month for each material used.	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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: GP 002 Ovens

Associated Items: CE 002 Fiberglass Filter w/o Cardboard Frame
 CE 003 Fiberglass Filter w/o Cardboard Frame
 CE 004 Fiberglass Filter w/o Cardboard Frame
 CE 005 Fiberglass Filter w/o Cardboard Frame
 CE 006 Fiberglass Filter w/o Cardboard Frame
 CE 007 Fiberglass Filter w/o Cardboard Frame
 CE 008 Fiberglass Filter w/o Cardboard Frame
 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 035 Stain Oven
 EU 036 Sealer Oven
 EU 037 Shade/Topcoat Oven
 EU 038 2nd Topcoat Oven
 EU 039 3rd Topcoat Oven
 EU 040 Offline Oven
 SV 004
 SV 005
 SV 006
 SV 007
 SV 008
 SV 009
 SV 010
 SV 026
 SV 027
 SV 028
 SV 029
 SV 030
 SV 031

What to do	Why to do it
Particulate Matter < 10 micron: less than or equal to 0.4 million Btu's/hour	Minn. R. 7011.0515, subp 1
Opacity: less than or equal to 20 percent opacity except that a maximum of 60 percent opacity shall be permissible for four minutes in any 60 minute period and a maximum of 40 percent opacity shall be permissible for four additional minutes in any 60 minute period.	Minn. R. 7011.0515, subp 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: GP 004 Spraybooths Control Equipment

Associated Items: CE 002 Fiberglass Filter w/o Cardboard Frame
CE 003 Fiberglass Filter w/o Cardboard Frame
CE 004 Fiberglass Filter w/o Cardboard Frame
CE 005 Fiberglass Filter w/o Cardboard Frame
CE 006 Fiberglass Filter w/o Cardboard Frame
CE 007 Fiberglass Filter w/o Cardboard Frame
CE 008 Fiberglass Filter w/o Cardboard Frame
CE 011 Fiberglass Filter w/o Cardboard Frame
CE 012 Fiberglass Filter w/o Cardboard Frame
CE 013 Fiberglass Filter w/o Cardboard Frame
CE 014 Fiberglass Filter w/o Cardboard Frame
CE 015 Fiberglass Filter w/o Cardboard Frame
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 026 Drawer Spray Booth #5
EU 028 Pre-Stain Booth
EU 029 Wiping Stain Booth
EU 030 Sealer Booth
EU 031 Shade/Topcoat Booth #1
EU 032 Shade/Topcoat Booth #2
EU 033 2nd Topcoat Booth
EU 034 3rd Topcoat Booth
SV 004
SV 005
SV 006
SV 007
SV 008
SV 009
SV 010
SV 013
SV 015
SV 016
SV 017
SV 018
SV 019
SV 020
SV 021
SV 022
SV 023
SV 024

TABLE A: LIMITS AND OTHER REQUIREMENTS

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Associated Items: SV 025

What to do	Why to do it
Pressure Drop: greater than 0.0 inches of water column and less than or equal to 1.0 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

GP 001 VOC emission sources

GP 002 Ovens

GP 004 Spraybooths Control Equipment

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 unit connected to SV004 through CE002, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

GP 001 VOC emission sources

GP 002 Ovens

GP 004 Spraybooths Control Equipment

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 unit connected to SV005 through CE003, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

GP 001 VOC emission sources

GP 002 Ovens

GP 004 Spraybooths Control Equipment

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 unit connected to SV006 through CE004, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

GP 001 VOC emission sources

GP 002 Ovens

GP 004 Spraybooths Control Equipment

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 unit connected to SV007 through CE005,a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

GP 001 VOC emission sources

GP 002 Ovens

GP 004 Spraybooths Control Equipment

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 unit connected to SV008 through CE006, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

GP 001 VOC emission sources

GP 002 Ovens

GP 004 Spraybooths Control Equipment

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 unit connected to SV009 through CE007, 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

GP 001 VOC emission sources

GP 002 Ovens

GP 004 Spraybooths Control Equipment

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 unit connected to SV010 through CE008, 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 013**Associated Items:** EU 026 Drawer Spray Booth #5

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV013 through CE011, 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 015**Associated Items:** EU 028 Pre-Stain Booth

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV015 through CE004, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 016**Associated Items:** EU 028 Pre-Stain Booth

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV016 through CE004, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 017**Associated Items:** EU 029 Wiping Stain Booth

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV017 through CE006, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 018**Associated Items:** EU 029 Wiping Stain Booth

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV018 through CE006, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 019**Associated Items:** EU 030 Sealer Booth

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV019 through CE008, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 020**Associated Items:** EU 031 Shade/Topcoat Booth #1

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV020 through CE012, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 021**Associated Items:** EU 031 Shade/Topcoat Booth #1

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV021 through CE012, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 022**Associated Items:** EU 032 Shade/Topcoat Booth #2

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV022 through CE012, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 023**Associated Items:** EU 032 Shade/Topcoat Booth #2

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV023 through CE013, a HEPA or other wall filter, when the emission unit is 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 024**Associated Items:** EU 033 2nd Topcoat Booth

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV024 through CE014, 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

Subject Item: SV 025**Associated Items:** EU 034 3rd Topcoat Booth

GP 001 VOC emission sources

GP 004 Spraybooths Control Equipment

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 unit connected to SV025 through CE015, 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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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 B: SUBMITTALS

01/08/98

Facility Name: Halcon Corporation
Permit Number: 10900051 - 002

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

01/08/98

Facility Name: Halcon Corporation

Permit Number: 10900051 - 002

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
AIR EMISSION PERMIT NO. 10900051-002

This Technical Support Document (TSD) is for all the interested parties of the permit. The purpose of this document is to set forth the legal and factual basis for the permit conditions, including references to the applicable statutory or regulatory provisions.

1. General Information

1.1. Applicant and Stationary Source Location:

Owner/Operator Address and Phone Number (list both if different)	Facility Address (SIC Code: 2521)
Halcon Corporation 1811 2nd Avenue Northeast Stewartville, Minnesota 55976 (507)533-4235	Same

1.2. Description Of The Facility

Halcon Corporation is a woodworking facility. The main contributors to air emissions are paints, stains, cleaning solutions, glue and dust. From the processes, the pollutants of concern are Volatile Organic Compounds (VOCs), Hazardous Air Pollutants (HAPs), Particulate Matter (PM), and Particulate Matter less than 10 microns in size (PM₁₀).

1.3 Description of the Activities Allowed By This Permit Action

This permit action will allow the finishing operation to be modified in the facility. Currently, the facility's finishing operation has nine spray booths and two ovens. These booths and ovens are all located in the existing finishing section of the plant. The parts are currently being moved by hand from booth to booth on push carts.

The Permittee is proposing to move the finishing operation to a new building addition. The finishing operation will consist of twelve spray booths and six ovens. This addition will house a new paint line. This line will be automated and will have a track system that propels the carts. The new automated line will include seven new booths and five new ovens. A total of six ovens will also be included in the new finishing operation. All six ovens are 1.0 MMBtu/hr. And all six ovens will be natural gas fired.

Five of the nine existing booths will be relocated to an area adjacent to the new paint line. The other four booths will be completely removed from the facility. One of the two existing ovens will be included in the new line. The other existing oven will be removed from the facility.

For New Source Review (NSR), this facility is not among the 28 industrial source categories listed in the Prevention of Significant Deterioration (PSD) rules (40 CFR § 52.21). Therefore, under PSD rules, the major source threshold is 250 tons per year of any single regulated (criteria) pollutant. Because of prior federally enforceable permit limits, this facility is classified, under both PSD (40 CFR § 52.21) and Title III (40 CFR § 63.2), as a non-major source. This modification will not change the previous permit limits for VOCs and HAPs. The current facility synthetic permit limits of 99 tpy for VOC, 24.5 tpy for all combined HAPs, and 9.5 tpy for any single HAP will remain. Hence, there is no significant net emission increase for VOCs or HAPs. This modification also requires the use of spray filters for particulate matter control equipment. This permit action places a federally enforceable limits for the use of the spray equipment control equipment. With the use of this control equipment, the permit action will remain below the significant net emission increase for PM and PM₁₀. Accordingly, PSD modification review does not apply to the facility. In addition, the facility is located in an attainment area. Hence, NSR does not apply to this permit amendment.

This permit action maintains the existing permit limits for VOCs and HAPs. The existing permit limits classify the facility as a non-major source for both PSD and Title III. However, this permit action adds federally enforceable permit conditions for the use of the spray filters. Because this permit action establishes a federally enforceable permit conditions, this amendment is a Major Amendment as described in Minn. R. 7007.1500.

On January 22, 1997, a State Synthetic Part 70 Operating Permit was issued to the facility by the MPCA. This is the first amendment to the State Synthetic Part 70 Operating Permit.

The Maximum Achievable Control Technology (MACT) for existing wood furniture finishing operations (of greater than 50 tons of HAPs per year) was effective on November 21, 1997.

An Environmental Assessment Worksheet (EAW) or an Environmental Impact Statement (EIS) has not been completed for this project. The activity authorized by the permit is not listed in Minn. R. 4431.4300, Mandatory EAW Categories or in Minn. R. 4410.4400, Mandatory EIS Categories.

1.4. Facility Emissions:

Table 1. Potential Emissions Associated With the Modification*

Pollutant	Potential to Emit from the modification (lb/hr)	Potential to Emit from the modification (TPY)	**Emission Increases Authorized with this Permit Action	**Emission Decreases Authorized with this Permit Action	Other contemporaneous emission increases/decreases (TPY)	Net Emission Change (TPY)	NSR/ 112(g) Threshold Level (TPY)	NSR/ MACT Review Required (Yes or No)
PM	0.069	0.30	0.30	N/A	N/A	0.30	25	no
PM ₁₀	0.069	0.30	0.30	N/A	N/A	0.30	15	no
SO ₂	0.0034	0.015	0.015	N/A	N/A	0.015	40	no
NO _x	0.571	2.5	2.5	N/A	N/A	2.5	40	no
VOC	0.022	0.095	0.095**	N/A	N/A	0.095	40	no
CO	0.12	0.526	0.526	N/A	N/A	0.526	100	no
Lead	0	0	0	N/A	N/A	0	0.6	no
HAPs			**	N/A	N/A		25	no

*The potential emission increases reflected in Table I do not include the VOCs and HAPs. This is because the VOCs and HAPs emissions are already and remain limited by the existing synthetic permit limits of 99 tpy for VOC, 24.5 tpy for all combined HAPs and 9.5 tpy for any single HAP.

**This permit amendment will maintain the existing VOC and HAP limits even though it is increasing its number of spray booths and ovens. The 0.095 tpy VOC increase is due to the addition of new natural gas fired ovens. Due to the existing synthetic minor limits, the net increase for HAPS and GP001 VOC emissions is zero.

Table 3. Permit Action Classification

Classification (put x in appropriate box)	Major/Affected Source	*Synthetic Minor	*Minor
PSD (list pollutant)		x	
NAAR (list pollutant)			
Part 70 Permit Program (list pollutant)			

* Refers to potential emissions that are less than those specified as major by 40 CFR § 52.21, 40 CFR pt. 51 Appendix S, and 40 CFR pt. 70.

2. Regulatory and/or Statutory Basis

A major permit amendment is required because this permit action establishes federally enforceable permit conditions. Minn. R. 7007.1500, subp. 1(c). The federally enforceable permit conditions limit PM emissions from the new spray booths through the use of control equipment (i.e., spray filters). This amendment does not exceed the significant threshold for a PM major modification under 40 CFR § 52.21. Hence, NSR review is not applicable to this modification. This permit also maintains the existing non-major emission limits for VOCs and HAPs. Hence, only Minn. R. 7007.1500, subp. 1(c) applies.

Regulatory Overview of Units Affected by the Modification

Table 4. Regulatory Overview

EU, GRP, or SV #	Applicable Regulations	Comments
GP001	40 CFR § 52.21	VOC usage limit of less than or equal to 99 tpy per 12-month rolling sum to remain less than significant as defined by 40 CFR § 2.21.
GP001	40 CFR § 52.21	Total HAP usage limit of less than or equal to 24.5 tpy per 12-month rolling sum to avoid major source classification under 40 CFR § 70.2 and 40 CFR § 63.2.
GP001	40 CFR § 52.21	Individual HAP usage limit of less than or equal to 9.5 tpy per 12-month rolling sum to avoid major source classification under 40 CFR § 70.2 and 40 CFR § 63.2.
GP002	Minn. R. 7011.0510, subp. 1	PM ₁₀ < 0.4 lbs per Million Btu/hr
GP002	Minn. R. 7011.0510, subp. 2	Opacity: Not to exceed 20% opacity, except that a maximum of 60% opacity shall be permissible for 4 minutes in any 60-minute period and that a maximum of 40% opacity shall be permissible for 4 additional minutes in any 60 minute period.
GP004	Minn. R. 7007.0800, subp. 14; Minn. R. 7011.0080	Paint Filters monitoring and recordkeeping: Visually inspect condition of filters, including but not limited to, alignment, saturation, and tears and holes. Record filters condition every 24 hours if in operation.
GP004	Minn. R. 7011.0075	Control equipment maintenance requirements.
GP004	Minn. R. 7007.0800; Minn. R. 7011.0080	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.

GP004	Minn. R. 7011.0065, subp. 1(A)	PM and PM ₁₀ limited by control equipment with greater than or equal to 92% collection efficiency.
GP004	Minn. R. 7011.0065, subp. 1(A)	PM and PM ₁₀ limited by control equipment with greater than or equal to 80% capture efficiency.
*	Minn. R. 7011.0715, subp. 1(A)	PM limitations as per Industrial Process Rule
*	Minn. R. 7011.0715, subp. 1(A)	Opacity limitations as per Industrial Process Rule
*	40 CFR § 52.21	Vent emissions through a HEPA or other wall filter when the emission unit is operating

* stack/vents from 12 spray booths (SV004, SV005, SV007, SV009, SV013, SV015 & SV016, SV017 & SV018, SV019, SV020 & SV021, SV022 & SV023, SV024, SV025)

3. Technical Information

Particulate Matter

The particulate matter emission is limited due to the VOC emissions limit. A gallon of the spray coating with the highest percent of solids would allow for 4.17 lbs of VOCs and 5.09 lbs of solids. The Permittee is maintaining a 100 tpy limit on VOCs. Hence, $100 \text{ tpy} \times (5.09/4.17) = 122 \text{ tpy}$ of solids. Moreover, with a 45 percent transfer efficiency, 80 percent capture efficiency, and 92 percent filter efficiency, this results in a PM emissions that remains below the 250 tpy PSD threshold. The transfer efficiency is based on Table 14-2 of STAPPA/ALAPCO Handbook for Regulators and Industry. As a Title I condition for each spray booth, the permit requires the use of HEPA or other wall filter, with a 80 percent capture and 92 percent filter efficiency.

Transfer Efficiency

In the permit application, the new spray booths are using airless-spray guns and HVLP guns. These spray guns are assumed to have a 45% transfer efficiency (Table 14-2 of the STAPPA/ALAPCO Handbook for Regulators and Industry. Hence, the permit calculations are based on a 45 percent transfer efficiency. As these spray guns are replaced, the Permittee would like to have the ability to use other types of guns, as technology advances, provided that the other types of guns achieve the 45 percent transfer efficiency.

Original Spray Booths

The finishing operation will ultimately have 12 spray booths. There will be seven new booths. Five of the nine existing booths will also be moved over to the new finishing building addition. The remaining four existing booths will be removed from the facility. However, the same CE numbers will be maintained. These existing numbers and new SV and EU numbers are as follows:

<u>New SV</u>	<u>New EU</u>	<u>CE</u>	<u>Former SV</u>	<u>Former EU</u>	<u>Name</u>
15 & 16	28	4	6	16	Pre-Stain
17 & 18	29	6	8	18	Wiping Stain
19	30	8	10	20	Sealer
20 & 21	31	12	14	27	Shade/Topcoat #1

This permit amendment, as initially written, will include both the new and former SV and EU numbers. The Permittee will then notify the agency when these existing booth are relocated. At that time, the former unit with the former SV and EU numbers will be deleted from the permit.

4. Conclusion

Based on the information provided by the Halcon Corporation, the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 10900051-002, and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

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