



Minnesota Pollution Control Agency
Air Quality
520 Lafayette Road
St. Paul, MN 55155-4194

TF-02
INITIAL STATEMENT OF COMPLIANCE
REPORT - CONTROL COMBINATION or
IDLING EMISSION LIMIT STANDARDS
Halogenated Solvent Cleaning Equipment
3/31/03

Facility Name: _____ Date: _____
Facility AQ #: _____ County Facility is located in: _____

Facility Address: _____
_____ Zip Code: _____

Mailing Address: _____
_____ Zip Code: _____

Facility Contact Person (Print Name): _____
Facility Contact Person's Title: _____
Contact Person's Phone # (include Area Code): _____

Responsible Person's Name (please print): _____
Responsible Person's Title (please print): _____
Responsible Person's Signature: _____

Cleaning Machine (fill out separate form for each solvent cleaning tank):

1. Tank Identification Number: _____
Date of Tank Installation: _____
Tank is: ☐ Existing (This report is due by May 1, 1998)
☐ New (This report is due 150 days after start-up or May 1, 1995, whichever is later)

2. Type of Machine: ☐ Batch Vapor
☐ In-Line

Solvent/Air Interface Area: _____ square meters
OR
_____ square feet
☐ My cleaning machine has no solvent/air interface

3. Tank Description (model #; serial #, etc): _____

4. Equipment Standard Compliance Method Chosen:
☐ Control Combination (see pages 3 and 4)
☐ Idling Emission Limit (see page 5, and make sure you attach your idling emission limit test report(s).)

General Information for Control Combination or Idling Emission Limit Equipment Standards

In filling out this packet, keep in mind that whether you choose the control combination or the idling emission limit equipment standard, the following should be included in each report for each machine, if it applies:

- **a list of parameters that are to be monitored and the values of these parameters measured on or during the first month after the compliance date for each piece of control equipment on your machine that is required to be monitored.**

Compliance Date for Existing Machines: December 2, 1997

Compliance Date for New Machines: At start-up or December 2, 1994, whichever is later.

- **if you used reduced room draft as a control option, you need to report the conditions that must be maintained to comply with the windspeed requirement (i.e., enclosure, closed doors, closed windows).**
- **if you choose to comply with the idling emission limit, you need to submit an idling emission limit test report for tests of idling emissions (this test report can come from the vendor or manufacturer of your machine).**

For each of the controls that are used to comply with the control combination or idling emission limit options, there are specific design, monitoring, and recordkeeping requirements. These are in the table titled “Control Combination Device Requirements” and should be attached with this packet.

- **The Design Requirements are necessary to define the controls and ensure that each control is capable of fulfilling its intended purpose.**
- **The Monitoring Requirements are necessary to make sure the equipment is working properly.**
- **The Recordkeeping is necessary to document the results of installation, monitoring, and determination results.**
- **If you use a control to comply with the idling emission limit that is not included in this packet, you must submit design, monitoring and recordkeeping requirements to the MPCA for approval. This information must be submitted with your idling emission standard test report.**

5. Control Combinations for Batch Vapor Cleaning Machines

If you have a batch vapor cleaning machine:

- and your solvent/air interface area is less than or equal to 1.21 square meters or 13 square feet;
- and you have picked the control combination option for complying with this rule;
- then, choose one of the following control option numbers for this machine:

Control Combination Option Number	Working Mode Cover	1.0 Freeboard Ratio	Super Heated Vapor	Freeboard Refrigeration	Reduced Room Draft	Carbon Adsorber	Dwell
1	X	X	X				
2			X	X			
3	X			X			
4		X	X		X		
5				X	X		
6		X		X			
7				X			X
8		X			X		X
9				X		X	
10		X	X			X	

What Option Number have you chosen for this machine? _____

If you have a batch vapor cleaning machine:

- and your solvent/air interface area is greater than 1.21 square meters or 13 square feet;
- and you have picked the control combination option for complying with this rule;
- then choose one of the following control option numbers for this machine:

Control Combination Option Number	Working Mode Cover	1.0 Freeboard Ratio	Super Heated Vapor	Freeboard Refrigeration	Reduced Room Draft	Carbon Adsorber	Dwell
1		X	X	X			
2				X	X		X
3	X		X	X			
4		X	X		X		
5			X	X	X		
6		X		X	X		
7			X	X		X	

What Option Number have you chosen for this machine? _____

6. Control Combinations for In-Line Cleaning Machines:

If your machine is an existing in-line cleaning machine:

- and you have chosen the Control Combination option to comply with this rule;
- then choose one of the following control options for this machine:

Control Combination Option Number	1.0 Freeboard Ratio	Super Heated Vapor	Freeboard Refrigeration	Carbon Adsorber	Dwell
1	X	X			
2	X		X		
3			X		X
4				X	X

What Option Number have you chosen for this machine? _____

If your machine is a new in-line cleaning machine:

- and you have chosen the Control Combination option to comply with this rule;
- then choose one of the following control options for this machine:

Control Combination Option Number	1.0 Freeboard Ratio	Super Heated Vapor	Freeboard Refrigeration	Carbon Adsorber	Dwell
1		X	X		
2			X	X	
3		X		X	

What Option Number have you chosen for this machine? _____

7. IDLING EMISSION LIMITS:

As an alternative to the previously listed control combinations, you can choose to comply with the idling emission limit option. To do this, you must meet an emission limits that is measured while the machine is idling (i.e., turned on, but not actively cleaning parts).

- It is expected that the manufacturers will provide the idling emission rates for the machines they manufacture.
- If this service is not provided, then you must use TEST METHOD 307 to determine the idling emission rates for your machines.
(Idling emissions are to be measured under idling conditions.)

Idling Emission Rates for Batch Vapor Machines:

0.22 kg per hour per square meter or 0.045 pounds per hour per square foot of solvent/air interface area.

Idling Emission Rates for In-Line Cleaning Machines:

0.10 kg per hour per square meter or 0.021 pounds per hour per square foot of solvent/air interface area.

If you choose the idling emission limits to comply with the regulation and you choose parameters for controls not listed in the table titled “Control Combination Device Requirements” included with this packet, then you must submit design, monitoring and recordkeeping requirements to the MPCA for approval. This information must be submitted with your idling emission standard test report.

8. For ALL FACILITIES with HALOGENATED SOLVENT CLEANING MACHINES: Please fill in the following information for this halogenated solvent cleaning machine:

Halogenated Solvent	Annual Consumption* for 1997 (in lbs)	Annual Consumption for 1996 (in lbs)
Methylene Chloride (CAS# 75-09-2)		<input type="checkbox"/> Actual <input type="checkbox"/> Estimated
Perchloroethylene (CAS# 127-18-4)		<input type="checkbox"/> Actual <input type="checkbox"/> Estimated
Trichloroethylene (CAS# 79-01-6)		<input type="checkbox"/> Actual <input type="checkbox"/> Estimated
1,1,1-Trichloroethane (Methyl Chloroform) (CAS# 71-55-6)		<input type="checkbox"/> Actual <input type="checkbox"/> Estimated
Carbon Tetrachloride (CAS# 56-23-5)		<input type="checkbox"/> Actual <input type="checkbox"/> Estimated
Chloroform (CAS# 67-66-3)		<input type="checkbox"/> Actual <input type="checkbox"/> Estimated

*consumption means the amount of halogenated hazardous air pollutant solvent added to the solvent cleaning machine.

- If you use actual annual consumptions for 1996: fill in the amount and check the “actual” box.
- If you do not have actual annual consumption records for 1996: give us your best estimate for the amounts and check the “estimated” box.

This report must be postmarked or received by applicable Due Date (refer to page 1 of this packet). Submit Report(s) to:

Air Quality Compliance Tracking Coordinator Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, Minnesota 55155-4194	George Czerniak AE-17K U.S. EPA Region 5 77 West Jackson Boulevard Chicago, IL 60604-3507
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