



State of Ohio Environmental Protection Agency

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**CERTIFIED MAIL**

**RE: PERMIT TO INSTALL \*\*\*CORRECTED COPY 6/12/2001\*\*\*  
LAKE COUNTY  
Application No:02-13273**

**DATE:** 6/12/2001

Steris Corporation  
Mike Timko  
6515 Hopkins Road  
Mentor, OH 440604307

Attached please find a corrected copy of PTI 02-13273 issued **August 18, 1999**. This corrected copy is being sent due to administrative processing errors and does not affect the enforceability or effective date of the Directors final action. Please note, the appearance of the corrected document may have changed due to changing software or printers (e.g., total number of pages, margins, etc.). Areas of the permit that have been substantively affected by the correction(s) are highlighted in the enclosed "Corrected Copy". I urge you to review these areas in relation to the issued permit document. Please replace the copy provided to you on **August 18, 1999** with the attached corrected Permit To Install document. *Please note:* No payment is required for processing this corrected copy.

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control



State of Ohio Environmental Protection Agency

Street Address:  
1800 WaterMark Drive  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
P.O. Box 1049  
Columbus, OH 43216-1049

**Lake County**

**RE: Final Permit to Install**  
**\*\*\*CORRECTED COPY 6/12/2001\*\*\***

Application No: **02-13273**

DATE: **August 18, 1999**

**Steris Corporation**  
**Mike Timko**  
**6515 Hopkins Road**  
**Mentor, Ohio 44060-4307**

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

A handwritten signature in cursive script that reads "Thomas G. Rigo".

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

**Ohio EPA Northeast District Office  
Lake County General Health District**



Permit to Install

**Terms and Conditions**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Application Number: 02-13273  
APS Premise Number: 0243081302  
Permit Fee: **\$1600**  
Name of Facility: Steris Corporation  
Person to Contact: Mike Timko  
Address: 6515 Hopkins Road  
Mentor, Ohio 44060-4307

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**6515 Hopkins Road**  
**Mentor, Ohio**

Description of proposed emissions unit(s):  
**POWDER BLENDING OPERATION #2 AND AUTOMATED POWDER DISPENSING  
STERILIZATION CAPSULE UNIT.**

Date of Issuance: August 18, 1999 \*\*\*CORRECTED COPY 6/12/2001\*\*\*  
Effective Date: August 18, 1999 \*\*\*CORRECTED COPY 6/12/2001\*\*\*

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Director

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

\*\*\*CORRECTED COPY 6/12/2001\*\*\*

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is

\*\*\*CORRECTED COPY 6/12/2001\*\*\*

made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such

\*\*\*CORRECTED COPY 6/12/2001\*\*\*

sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

#### **10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

#### **12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	2.63

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Powder blending operation #2 equipped with a 5,000 acfm fabric filter baghouse, (venting inside)	OAC rule 3745-31-05  OAC rule 3745-17-11  OAC rule 3745-17-07	PM: 0.01 gr/dscf, 0.43 lb/hr, 1.88 tpy No visible emissions from any building opening  This rule is less stringent than OAC rule 3745-31-05.  This rule is less stringent than OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

2.a None

**B. Operational Restrictions**

The pressure drop across the baghouse shall be maintained within the range of 1.0 and 4.0 inches of water while the emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instruction, and operating manual(s). The permittee shall

record the pressure drop across the baghouse on a weekly basis.

2. The permittee shall weigh and record the collected particulate matter emission (in pounds) each time the baghouse hopper is emptied.
3. The permittee shall record the date each time the collected particulate matter emission is weighed.
4. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

#### **D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit required reports in the following manner:
  - a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursion) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local agency. If no deviation occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**E. Testing Requirements**

1. Emissions Limitation:

0.01 grains of particulate matter per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

Compliance with the particular matter emission limitation shall be determined in accordance with OAC rule 3745-17-03 (B)(10). No testing is specifically required by this permit but, if appropriate, may be requested in accordance to OAC rule 3745-15-04 (A). The test methods and procedures shall be conducted while the emissions unit is operating at its maximum rated capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control.

2. Emissions Limitation:

0.43 pound of particulate matter per hour

Applicable Compliance Method:

Compliance with the particular matter emission limitation shall be determined in accordance with OAC rule 3745-17-03 (B)(10). No testing is specifically required by this permit but, if appropriate, may be requested in accordance to OAC rule 3745-15-04 (A). The test methods and procedures shall be conducted while the emissions unit is operating at its maximum rated capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control.

3. Emissions Limitation:

1.88 tons per year

Applicable Compliance Method:

Compliance shall be determined by using the following equation:

$$E = [A / (1 - 0.002)] \times (1 - 0.998) / 2000 \text{ lbs}$$

Where:

E = particulate matter emissions rate (tons/year)

A = weighted collected particulate matter emissions (in pounds/year) from the baghouse

0.002 = uncontrolled particulate matter emission from the fabric filter baghouse (0.2%)

0.998 = operating control efficiency of fabric filter baghouse (99.8%)

4. Emissions Limitation:

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Steris

PTI A1

August 18, 1999

Emissions Unit ID: **P006**

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No visible emissions from any building opening

Applicable Compliance Method:

Compliance shall be determined by using Method 22, as specified in 40 CFR 60, Appendix A.

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Automated powder dispensing sterilization capsule unit equipped with a 2,000 acfm fabric filter baghouse, (venting inside)	OAC rule 3745-31-05	PM: 0.01 gr/dscf, 0.17 lb/hr, 0.75 tpy No visible emissions from any building opening
	OAC rule 3745-17-11	This rule is less stringent than OAC rule 3745-31-05.
	OAC rule 3745-17-07	This rule is less stringent than OAC rule 3745-31-05.

2. **Additional Terms and Conditions**

- 2.a None

**B. Operational Restrictions**

The pressure drop across the baghouse shall be maintained within a specified range (in inches of water) as specified in the manufacturer’s operating manual(s).

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations,

instruction, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

2. The permittee shall weigh and record the collected particulate matter emission (in pounds) each time the baghouse hopper is emptied.
3. The permittee shall record the date each time the collected particulate matter emission is weighed.
4. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

#### **D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit required reports in the following manner:
  - a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursion) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local agency. If no deviation occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **E. Testing Requirements**

1. Emissions Limitation:

0.01 grains of particulate matter per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

Compliance with the particular matter emission limitation shall be determined in accordance with OAC rule 3745-17-03 (B)(10). No testing is specifically required by this permit but, if appropriate, may be requested in accordance to OAC rule 3745-15-04 (A). The test methods and procedures shall be conducted while the emissions unit is operating at its maximum rated capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control.

2. Emissions Limitation:

0.17 pound of particulate matter per hour

Applicable Compliance Method:

Compliance with the particular matter emission limitation shall be determined in accordance with OAC rule 3745-17-03 (B)(10). No testing is specifically required by this permit but, if appropriate, may be requested in accordance to OAC rule 3745-15-04 (A). The test methods and procedures shall be conducted while the emissions unit is operating at its maximum rated capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control.

3. Emissions Limitation:

4.38 tons per year

Applicable Compliance Method:

Compliance shall be determined by using the following equation:

$$E = [A / (1-.001)] \times (1-0.999) / 2000 \text{ lbs}$$

Where:

- E = particulate matter emissions rate (tons/year)
- A = weighted collected particulate matter emissions (in pounds/year) from the baghouse
- 0.001 = uncontrolled particulate matter emission from the fabric filter baghouse (0.1%)
- 0.999 = operating control efficiency of fabric filter baghouse (99.9%)

4. Emissions Limitation:

No visible emissions from any building opening

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Steris Corporation  
PTI Application 02 13272  
August

Facility ID: 0243081302

Emissions Unit ID: **P007**

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Steris  
PTI A1  
August

Emissions Unit ID: **P007**

Applicable Compliance Method:

Compliance shall be determined by using Method 22, as specified in 40 CFR 60, Appendix A.

**F. Miscellaneous Requirements**

None