



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MADISON COUNTY**

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov.
Center

Application No: 01-08247

DATE: 12/12/2000

Showa Aluminum Corporation of America
Robert Feltz
10500 ODay Harrison Road
Mount Sterling, OH 43143

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 Directors 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,

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

CC: USEPA

CDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Issue Date: 12/12/2000

FINAL PERMIT TO INSTALL 01-08247

Application Number: 01-08247
APS Premise Number: 0149000088
Permit Fee: **\$3600**
Name of Facility: Showa Aluminum Corporation of America
Person to Contact: Robert Feltz
Address: 10500 ODay Harrison Road
Mount Sterling, OH 43143

Location of proposed air contaminant source(s) [emissions unit(s)]:

**10500 ODay Harrison Road
Mount Sterling, Ohio**

Description of proposed emissions unit(s):

Core builder line number 1-4, zinc coating operation, ED sawing process, condenser banding and bracketing line 1-4.

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



Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written 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. See B.11 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition

declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. 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.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

B. State Only Enforceable 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 of state-only enforceable 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 state-only required 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. 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.

4. 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.

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

6. 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 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.

7. 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.

8. 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).

9. 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.

10. 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.

11. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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.

C. 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>
VOC	24.32
PE	2.68

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P018 - Condenser Core Building Line Number 1 and Oven, with Thermal Incinerator	OAC rule 3745-31-05 (A) (3)	Volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour and 2.98 tons per year. Condenser core building line oil usage shall not exceed eight (8) gallons per day.
		See A.I.2.a and A.II.1 below.
	OAC rule 3745-21-09 (U) (2) (e)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

1. The facility shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions from this emissions unit whenever the emissions unit is in operation.

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1350 degrees Fahrenheit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1350 degrees Fahrenheit.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
3. The permittee shall collect and record the following information each day for the condenser core building line:
 - a. The name and identification number of the condenser oil employed.
 - b. The volume, in gallons, of the condenser oil employed.
 - c. The VOC content of the condenser oil as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.
2. The permittee shall notify the Central District Office in writing of any daily record showing that

Issued

Emissions Unit ID: P018

the condenser core building line employs more than the applicable maximum daily condenser oil usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.

3. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 2.98 tons VOC per year.

Applicable Compliance Method:

Compliance with the hourly and annual VOC limitation shall be determined by using the following calculations as provided by the facility:

Maximum oil usage on condenser core building line is 0.33 gallons/hour.
VOC content of oil is 6.84 lbs per gallon.

$$(0.33 \text{ gallons/hour}) \times (6.84 \text{ lbs VOC/gallon}) \\ = 2.26 \text{ lbs VOC/hour uncontrolled}$$

Fugitive emissions include evaporative losses from production line = 0.6 lb/hr (from mass balance determination)

$$\text{Remaining uncontrolled emissions: } (2.26 \text{ lbs VOC/hour uncontrolled}) - (0.6 \text{ lb/hr fugitive}) \\ = 1.66 \text{ lbs VOC/hour uncontrolled}$$

Capture efficiency of oven is 100% and destruction efficiency of catalytic incinerator is 95%. The capture efficiency of 100% is derived from engineering calculations provided in the PTI application.

$$(1.66 \text{ lbs/hr} \times (1 - 0.95)) = 0.083 \text{ lb VOC/hr}$$

Total hourly VOC emissions: (fugitive) +

(oven) = 0.6 lb/hr + 0.083 lb/hr = 0.68 lb
VOC/hr

Annual VOC emissions: (0.68 lb VOC/hr) x
(8760 hours/year) x (1 ton/2000 lbs) = 2.98
ton/year

b. Emission Limitation:

This emissions unit shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions.

Applicable Compliance Method:

If required, the following test method(s) shall be employed to determine the overall control efficiency of the control equipment serving this emissions unit: 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25 or 25A.

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c. Emissions Limitation:

Condenser core building line oil usage shall not exceed eight (8) gallons per day.

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.3.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P018 - Condenser Core Building Line Number 1 and Oven, with Thermal Incinerator		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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Emissions Unit ID: P018

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P019 - Condenser Core Building Line Number 2 and Oven, with Thermal Incinerator	OAC rule 3745-31-05 (A) (3)	Volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour and 2.98 tons per year. Condenser core building line oil usage shall not exceed eight (8) gallons per day.
	OAC rule 3745-21-09 (U) (2) (e)	See A.I.2.a and A.II.1 below. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

1. The facility shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions from this emissions unit whenever the emissions unit is in operation.

Issued

Emissions Unit ID: P019

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1350 degrees Fahrenheit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1350 degrees Fahrenheit.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
3. The permittee shall collect and record the following information each day for the condenser core building line:
 - a. The name and identification number of the condenser oil employed.
 - b. The volume, in gallons, of the condenser oil employed.
 - c. The VOC content of the condenser oil as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.
2. The permittee shall notify the Central District Office in writing of any daily record showing that the condenser core building line employs more than the applicable maximum daily condenser oil usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.
3. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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Emissions Unit ID: P019

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 2.98 tons VOC per year.

Applicable Compliance Method:

Compliance with the hourly and annual VOC limitation shall be determined by using the following calculations as provided by the facility:

Maximum oil usage on condenser core building line is 0.33 gallons/hour.
VOC content of oil is 6.84 lbs per gallon.

$$(0.33 \text{ gallons/hour}) \times (6.84 \text{ lbs VOC/gallon}) \\ = 2.26 \text{ lbs VOC/hour uncontrolled}$$

Fugitive emissions include evaporative losses from production line = 0.6 lb/hr (from mass balance determination)

$$\text{Remaining uncontrolled emissions: } (2.26 \text{ lbs VOC/hour uncontrolled}) - (0.6 \text{ lb/hr fugitive}) \\ = 1.66 \text{ lbs VOC/hour uncontrolled}$$

Capture efficiency of oven is 100% and destruction efficiency of catalytic incinerator is 95%. The capture efficiency of 100% is derived from engineering calculations provided in the PTI application.

$$(1.66 \text{ lbs/hr} \times (1 - 0.95)) = 0.083 \text{ lb VOC/hr}$$

Total hourly VOC emissions: (fugitive) +

Emissions Unit ID: P019

$$(\text{oven}) = 0.6 \text{ lb/hr} + 0.083 \text{ lb/hr} = 0.68 \text{ lb VOC/hr}$$
$$\text{Annual VOC emissions: } (0.68 \text{ lb VOC/hr}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs}) = 2.98 \text{ ton/year}$$

b. Emission Limitation:

This emissions unit shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions.

Applicable Compliance Method:

If required, the following test method(s) shall be employed to determine the overall control efficiency of the control equipment serving this emissions unit: 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25 or 25A.

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Emissions Unit ID: P019

c. Emissions Limitation:

Condenser core building line oil usage shall not exceed eight (8) gallons per day.

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.3.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P019 - Condenser Core Building Line Number 2 and Oven, with Thermal Incinerator		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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Issued: 12/12/2000

Emissions Unit ID: P019

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P020 - Condenser Core Building Line Number 3 and Oven, with Thermal Incinerator	OAC rule 3745-31-05 (A) (3)	Volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour and 2.98 tons per year.
		Condenser core building line oil usage shall not exceed eight (8) gallons per day.
		See A.I.2.a and A.II.1 below.
	OAC rule 3745-21-09 (U) (2) (e)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

1. The facility shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions from this emissions unit whenever the emissions unit is in operation.

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Emissions Unit ID: P020

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1350 degrees Fahrenheit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1350 degrees Fahrenheit.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
3. The permittee shall collect and record the following information each day for the condenser core building line:
 - a. The name and identification number of the condenser oil employed.
 - b. The volume, in gallons, of the condenser oil employed.
 - c. The VOC content of the condenser oil as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.
2. The permittee shall notify the Central District Office in writing of any daily record showing that the condenser core building line employs more than the applicable maximum daily condenser oil usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.
3. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of

each year.

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 2.98 tons VOC per year.

Applicable Compliance Method:

Compliance with the hourly and annual VOC limitation shall be determined by using the following calculations as provided by the facility:

Maximum oil usage on condenser core building line is 0.33 gallons/hour.
VOC content of oil is 6.84 lbs per gallon.

$$(0.33 \text{ gallons/hour}) \times (6.84 \text{ lbs VOC/gallon}) \\ = 2.26 \text{ lbs VOC/hour uncontrolled}$$

Fugitive emissions include evaporative losses from production line = 0.6 lb/hr (from mass balance determination)

$$\text{Remaining uncontrolled emissions: } (2.26 \text{ lbs VOC/hour uncontrolled}) - (0.6 \text{ lb/hr fugitive}) \\ = 1.66 \text{ lbs VOC/hour uncontrolled}$$

Capture efficiency of oven is 100% and destruction efficiency of catalytic incinerator is 95%. The capture efficiency of 100% is derived from engineering calculations provided in the PTI application.

$$(1.66 \text{ lbs/hr} \times (1 - 0.95)) = 0.083 \text{ lb VOC/hr}$$

Total hourly VOC emissions: (fugitive) +

(oven) = 0.6 lb/hr + 0.083 lb/hr = 0.68 lb
VOC/hr

Annual VOC emissions: (0.68 lb VOC/hr) x
(8760 hours/year) x (1 ton/2000 lbs) = 2.98
ton/year

b. Emission Limitation:

This emissions unit shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions.

Applicable Compliance Method:

If required, the following test method(s) shall be employed to determine the overall control efficiency of the control equipment serving this emissions unit: 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25 or 25A.

c. Emissions Limitation:

Condenser core building line oil usage shall not exceed eight (8) gallons per day.

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.3.

VI. Miscellaneous Requirements

None

Issued: 12/12/2000

B. State Only Enforceable Section

I. 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>
P020 - Condenser Core Building Line Number 3 and Oven, with Thermal Incinerator		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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Issued: 12/12/2000

Emissions Unit ID: P020

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P034 - Condenser Core Building Line Number 4 and Oven, with Thermal Incinerator	OAC rule 3745-31-05 (A) (3)	<p>Volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour and 2.98 tons per year. Condenser core building line oil usage shall not exceed eight (8) gallons per day.</p> <p>See A.I.2.a and A.II.1 below.</p>
	OAC rule 3745-21-09 (U) (2) (e)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

1. The facility shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions from this emissions unit whenever the emissions unit is in operation.

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1350 degrees Fahrenheit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1350 degrees Fahrenheit.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
3. The permittee shall collect and record the following information each day for the condenser core building line:
 - a. The name and identification number of the condenser oil employed.
 - b. The volume, in gallons, of the condenser oil employed.
 - c. The VOC content of the condenser oil as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.
2. The permittee shall notify the Central District Office in writing of any daily record showing that the condenser core building line employs more than the applicable maximum daily condenser oil

Issued

Emissions Unit ID: P034

usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.

3. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.68 pound per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 2.98 tons VOC per year.

Applicable Compliance Method:

Compliance with the hourly and annual VOC limitation shall be determined by using the following calculations as provided by the facility:

Maximum oil usage on condenser core building line is 0.33 gallons/hour.
VOC content of oil is 6.84 lbs per gallon.

$$(0.33 \text{ gallons/hour}) \times (6.84 \text{ lbs VOC/gallon}) \\ = 2.26 \text{ lbs VOC/hour uncontrolled}$$

Fugitive emissions include evaporative losses from production line = 0.6 lb/hr (from mass balance determination)

$$\text{Remaining uncontrolled emissions: } (2.26 \text{ lbs VOC/hour uncontrolled}) - (0.6 \text{ lb/hr fugitive}) \\ = 1.66 \text{ lbs VOC/hour uncontrolled}$$

Capture efficiency of oven is 100% and destruction efficiency of catalytic incinerator is 95%. The capture efficiency of 100% is derived from engineering calculations provided in the PTI application.

$$(1.66 \text{ lbs/hr} \times (1 - 0.95)) = 0.083 \text{ lb VOC/hr}$$

Total hourly VOC emissions: (fugitive) +

(oven) = 0.6 lb/hr + 0.083 lb/hr = 0.68 lb
VOC/hr

Annual VOC emissions: (0.68 lb VOC/hr) x
(8760 hours/year) x (1 ton/2000 lbs) = 2.98
ton/year

b. Emission Limitation:

This emissions unit shall employ a thermal incinerator with a minimum control efficiency of 95% to control VOC emissions.

Applicable Compliance Method:

If required, the following test method(s) shall be employed to determine the overall control efficiency of the control equipment serving this emissions unit: 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25 or 25A.

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Emissions Unit ID: P034

c. Emissions Limitation:

Condenser core building line oil usage shall not exceed eight (8) gallons per day.

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.3.

VI. Miscellaneous Requirements

None

Issued: 12/12/2000

B. State Only Enforceable Section

I. 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>
P034 - Condenser Core Building Line Number 4 and Oven, with Thermal Incinerator		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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Showa Aluminum Corporation of America

PTI Application: **01 08247**

Issued

Facility ID: **0149000088**

Emissions Unit ID: P034

None

II. Operational Restrictions

1. The facility shall employ a baghouse/fabric filter to control particulate emissions from this emissions unit whenever the emissions unit is in operation.
2. The pressure drop across the fabric filter shall be maintained in a range of one to six inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the final cartridge filter, while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the final cartridge filter on a daily basis while the emissions unit is in operation.

IV. Reporting Requirements

1. In accordance with paragraph A.2.b. of the General Terms and Conditions, the permittee shall submit quarterly deviation(excursion) reports for all exceedances during which the pressure drop across the fabric filter did not comply with the allowable range specified in restriction A.II.2 above, and any actions taken to return the pressure drop to a compliant operating range.

V. Testing Requirements

1. Compliance with the emission limitation of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

Allowable hourly particulate emissions from this emissions unit shall not exceed 0.11 pound PE per hour, and the allowable annual PE emissions from this emissions unit shall not exceed 0.48 ton PE per year.

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined by using the following calculations as provided by the facility:

Aluminum shavings are generated at a rate of 0.000366 lb per tube
63,000 tubes can be produced by ED per day
Capture efficiency for the dust collection system is 90% and the control efficiency of

the baghouse is 99%. The capture efficiency of 90% is derived from engineering calculations provided in the PTI application.

Hourly PE emissions:

$(0.000366 \text{ lb PE/tube}) \times (63,000 \text{ tubes produced/day}) \times (1 - 0.90) = 2.31 \text{ lb PE/day}$
fugitive

$(0.000366 \text{ lb PE/tube}) \times (63,000 \text{ tubes produced/day}) \times (0.90) \times (1 - 0.99) = 0.21 \text{ lb PE/day}$
controlled

$0.21 \text{ lb PE} + 2.31 \text{ lb PE} = 2.52 \text{ lb PE/day}$
(sum of controlled and fugitive emissions)

$(2.52 \text{ lb PE/day}) \times (1 \text{ day}/24 \text{ hours}) = 0.11 \text{ lb PE per hour total}$

Showa Aluminum Corporation of America

PTI Application: 01 00247

Issued

Facility ID: 0149000088

Emissions Unit ID: P035

Annual PE emissions: $(0.11 \text{ lb PE/hr}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs}) = 0.48 \text{ ton/year}$

b. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

For the purpose of determining compliance with paragraph (A)(1) of rule 3745-17-07 of the Ohio Administrative Code, visible particulate emissions shall be determined according to OAC rule 3745-17-03 (B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P035 - ED Sawing Process for the Cutting of Extruded Tubes for Copier Toner Cartridges, with Baghouse		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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Issued: 12/12/2000

Emissions Unit ID: P035

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P037 - Zinc Deposition Operation for Extruded Aluminum Tubes, with Baghouse	OAC rule 3745-31-05 (A) (3)	Particulate emissions (PE) from this emissions unit shall not exceed 0.5 pounds per hour and 2.2 tons per year.
	OAC rule 3745-17-11 (B) (1)	The requirements of this rule also include compliance with the requirements of 3745-17-07 (A) (1).
	OAC rule 3745-17-07 (A) (1)	See A.I.2.a and A.II.1 below.
		This emissions requirement is less stringent than the particulate matter limits established by OAC rule 3745-31-05.
		Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

- 2.a The pound per hour PE limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

1. The facility shall employ a baghouse/fabric filter to control particulate emissions from this emissions unit whenever the emissions unit is in operation.
2. The pressure drop across the fabric filter shall be maintained within the range of 2 to 4 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the final cartridge filter, while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the final cartridge filter on a daily basis while the emissions unit is in operation.

IV. Reporting Requirements

1. In accordance with paragraph A.2.b. of the General Terms and Conditions, the permittee shall submit quarterly deviation(excursion) reports for all exceedances during which the pressure drop across the fabric filter did not comply with the allowable range specified in restriction A.II.2, above, and any actions taken to return the pressure drop to a compliant operating range.

V. Testing Requirements

1. Compliance with the emission limitation of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

Allowable hourly particulate emissions from this emissions unit shall not exceed 0.5 pound PE per hour, and the allowable annual PE emissions from this emissions unit shall not exceed 2.2 tons PE per year.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emissions limitation through stack testing in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

If testing is not required, compliance with this emissions limitation shall be determined by using

the following calculations as provided by the facility:

Maximum amount of PE created = 0.105 lb PE per kg of aluminum extruded

Maximum amount of aluminum extruded per hour = 479 kg per hour

Capture efficiency of system is 100%

Control efficiency of baghouse dust collector is 99%

$(479 \text{ kg aluminum/hr}) \times (0.105 \text{ lb PM/kg aluminum}) \times (1 - 0.99) = 0.5 \text{ lb PE/hr}$

Annual PE emissions: $(0.5 \text{ lb PE/hr}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs}) = 2.2 \text{ tons PE/year}$

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Emissions Unit ID: P037

b. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

For the purpose of determining compliance with paragraph (A)(1) of rule 3745-17-07 of the Ohio Administrative Code, visible particulate emissions shall be determined according to OAC rule 3745-17-03 (B)(1)

VI. Miscellaneous Requirements

None

Issued: 12/12/2000

B. State Only Enforceable Section

I. 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>
P037 - Zinc Deposition Operation for Extruded Aluminum Tubes, with Baghouse		

2. Additional Terms and Conditions

- 2.a. None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit, P037, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Zinc oxide (dust)

TLV (mg/m³): 10

Maximum Hourly Emission Rate (lbs/hr): 0.5

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 213.3

MAGLC (ug/m³): 238.1

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

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Emissions Unit ID: P037

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P038 - Condenser Banding and Bracketing Line Number 1 for the Assembly of Automotive Condensers	OAC rule 3745-31-05 (A) (3)	Volatile organic compound (VOC) emissions shall not exceed 0.7 pound per hour and 3.1 tons per year. Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.
	OAC rule 3745-21-09 (U) (2) (e)	See A.I.2.a below. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a . The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for the condenser banding and bracketing line:
 - a. The name and identification number of the lubricant/cleaner employed.
 - b. The volume, in gallons, of the lubricant/cleaner employed.
 - c. The VOC content of the lubricant/cleaner as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall notify the Central District Office in writing of any daily record showing that the condenser banding and bracketing line employs more than the applicable maximum daily lubricant/cleaner usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.
2. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.7 pounds per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 3.1 tons VOC per year.

Applicable Compliance Method:

Compliance with these emissions limitations shall be determined through recordkeeping as required in section A.III.1. The following calculations as provided by the facility shall be used to determine the hourly and annual VOC emissions:

Maximum of 2.5 gallons of the

Emissions Unit ID: P038

lubricant/cleaner used per day

VOC content of lubricant/cleaner is 6.58 lbs
per gallon
$$(2.5 \text{ gallons/day}) \times (6.58 \text{ lbs VOC/gallon}) \times$$
$$(\text{one day}/24 \text{ hours}) = 0.7 \text{ lb VOC / hour}$$
$$(0.7 \text{ lb/hr}) \times (8760 \text{ hr/year}) \times (1 \text{ ton}/2000$$
$$\text{lbs}) = 3.1 \text{ tons VOC per year}$$

Formulation data or USEPA Method 24 shall be used to determine the volatile organic compound contents of the coating.

b. Emissions Limitation:

Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.

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Showa

PTI A₁

Issued: 12/12/2000

Emissions Unit ID: P038

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.1.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P038 - Condenser Banding and Bracketing Line Number 1 for the Assembly of Automotive Condensers		

2. Additional Terms and Conditions

- 2.a. None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit, P038, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isopropyl alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (lbs/hr): 2.8 (includes fugitive emissions from all four Condenser Banding and Bracketing Lines: P038, P039, P040, and P041)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 1083

MAGLC (ug/m³): 23,405

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

Issued

Emissions Unit ID: P038

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
P039 - Condenser Banding and Bracketing Line Number 2 for the Assembly of Automotive Condensers	OAC rule 3745-31-05 (A) (3)	Volatile organic compound (VOC) emissions shall not exceed 0.7 pound per hour and 3.1 tons per year. Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.
	OAC rule 3745-21-09 (U) (2) (e)	See A.I.2.a below. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a. The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for the condenser banding and bracketing line:
 - a. The name and identification number of the lubricant/cleaner employed.
 - b. The volume, in gallons, of the lubricant/cleaner employed.
 - c. The VOC content of the lubricant/cleaner as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall notify the Central District Office in writing of any daily record showing that the condenser banding and bracketing line employs more than the applicable maximum daily lubricant/cleaner usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.
2. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.7 pounds per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 3.1 tons VOC per year.

Applicable Compliance Method:

Compliance with these emissions limitations shall be determined through recordkeeping as required in section A.III.1. The following calculations as provided by the facility shall be used to determine the hourly and annual VOC emissions:

Maximum of 2.5 gallons of the
lubricant/cleaner used per day

Emissions Unit ID: P039

VOC content of lubricant/cleaner is 6.58 lbs
per gallon $(2.5 \text{ gallons/day}) \times (6.58 \text{ lbs VOC/gallon}) \times$ $(\text{one day/24 hours}) = 0.7 \text{ lb VOC / hour}$ $(0.7 \text{ lb/hr}) \times (8760 \text{ hr/year}) \times (1 \text{ ton/2000}$ $\text{lbs}) = 3.1 \text{ tons VOC per year}$

Formulation data or USEPA Method 24 shall be used to determine the volatile organic compound contents of the coating.

b. Emissions Limitation:

Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.

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Showa

PTI A₁

Issued: 12/12/2000

Emissions Unit ID: P039

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.1.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P039 - Condenser Banding and Bracketing Line Number 2 for the Assembly of Automotive Condensers		

2. Additional Terms and Conditions

- 2.a. None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit, P039, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isopropyl alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (lbs/hr): 2.8 (includes fugitive emissions from all four Condenser Banding and Bracketing Lines: P038, P039, P040, and P041)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 1083

MAGLC (ug/m³): 23,405

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

Issued

Emissions Unit ID: P039

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
P040 - Condenser Banding and Bracketing Line Number 3 for the Assembly of Automotive Condensers	OAC rule 3745-31-05 (A) (3)	Volatile organic compound (VOC) emissions shall not exceed 0.7 pound per hour and 3.1 tons per year. Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.
	OAC rule 3745-21-09 (U) (2) (e)	See A.I.2.a below. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a. The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for the condenser banding and bracketing line:
 - a. The name and identification number of the lubricant/cleaner employed.
 - b. The volume, in gallons, of the lubricant/cleaner employed.
 - c. The VOC content of the lubricant/cleaner as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall notify the Central District Office in writing of any daily record showing that the condenser banding and bracketing line employs more than the applicable maximum daily lubricant/cleaner usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.
2. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.7 pounds per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 3.1 tons VOC per year.

Applicable Compliance Method:

Compliance with these emissions limitations shall be determined through recordkeeping as required in section A.III.1. The following calculations as provided by the facility shall be used to determine the hourly and annual VOC emissions:

Maximum of 2.5 gallons of the
lubricant/cleaner used per day

Showa Aluminum Corporation of America

PTI Application: 01 00247

Issued

Facility ID: 0149000088

Emissions Unit ID: P040

VOC content of lubricant/cleaner is 6.58 lbs
per gallon

$(2.5 \text{ gallons/day}) \times (6.58 \text{ lbs VOC/gallon}) \times$
 $(\text{one day}/24 \text{ hours}) = 0.7 \text{ lb VOC / hour}$

$(0.7 \text{ lb/hr}) \times (8760 \text{ hr/year}) \times (1 \text{ ton}/2000$
 $\text{lbs}) = 3.1 \text{ tons VOC per year}$

Formulation data or USEPA Method 24 shall be used to determine the volatile organic compound contents of the coating.

b. Emissions Limitation:

Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.

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Showa

PTI A₁

Issued: 12/12/2000

Emissions Unit ID: P040

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.1.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P040 - Condenser Banding and Bracketing Line Number 3 for the Assembly of Automotive Condensers		

2. Additional Terms and Conditions

- 2.a. None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit, P040, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isopropyl alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (lbs/hr): 2.8 (includes fugitive emissions from all four Condenser Banding and Bracketing Lines: P038, P039, P040, and P041)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 1083

MAGLC (ug/m³): 23,405

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

Issued

Emissions Unit ID: P040

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P041 - Condenser Banding and Bracketing Line Number 4 for the Assembly of Automotive Condensers	OAC rule 3745-31-05 (A) (3)	<p>Volatile organic compound (VOC) emissions shall not exceed 0.7 pound per hour and 3.1 tons per year. Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.</p> <p>See A.I.2.a below.</p>
	OAC rule 3745-21-09 (U) (2) (e)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A) (3).

2. Additional Terms and Conditions

- 2.a. The pound per hour VOC limit reflects the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for the condenser banding and bracketing line:
 - a. The name and identification number of the lubricant/cleaner employed.
 - b. The volume, in gallons, of the lubricant/cleaner employed.
 - c. The VOC content of the lubricant/cleaner as applied, in pounds per gallon.

IV. Reporting Requirements

1. The permittee shall notify the Central District Office in writing of any daily record showing that the condenser banding and bracketing line employs more than the applicable maximum daily lubricant/cleaner usage limit. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.
2. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitation:

Allowable hourly volatile organic compound (VOC) emissions shall not exceed 0.7 pounds per hour, and the allowable annual VOC emissions from this emissions unit shall not exceed 3.1 tons VOC per year.

Applicable Compliance Method:

Compliance with these emissions limitations shall be determined through recordkeeping as required in section A.III.1. The following calculations as provided by the facility shall be used to determine the hourly and annual VOC emissions:

Maximum of 2.5 gallons of the
lubricant/cleaner used per day

Emissions Unit ID: P041

VOC content of lubricant/cleaner is 6.58 lbs
per gallon
$$(2.5 \text{ gallons/day}) \times (6.58 \text{ lbs VOC/gallon}) \times$$
$$(\text{one day/24 hours}) = 0.7 \text{ lb VOC / hour}$$
$$(0.7 \text{ lb/hr}) \times (8760 \text{ hr/year}) \times (1 \text{ ton/2000}$$
$$\text{lbs}) = 3.1 \text{ tons VOC per year}$$

Formulation data or USEPA Method 24 shall be used to determine the volatile organic compound contents of the coating.

b. Emissions Limitation:

Condenser banding and bracketing line lubricant/cleaner usage shall not exceed 2.5 gallons per day.

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Showa

PTI A₁

Issued: 12/12/2000

Emissions Unit ID: P041

Applicable Compliance Method:

Compliance with this emissions limitation shall be determined through recordkeeping as required in section A.III.1.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P041 - Condenser Banding and Bracketing Line Number 4 for the Assembly of Automotive Condensers		

2. Additional Terms and Conditions

- 2.a. None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit, P041, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isopropyl alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (lbs/hr): 2.8 (includes fugitive emissions from all four Condenser Banding and Bracketing Lines: P038, P039, P040, and P041)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 1083

MAGLC (ug/m³): 23,405

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

Issued

Emissions Unit ID: P041

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247 Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4, zinc coating operation, ED sawing process, condenser banding and bracketing line 1-4. CITY/TWP Mount Sterling

SIC CODE 3714 SCC CODE 3-14-999-99 EMISSIONS UNIT ID P018

EMISSIONS UNIT DESCRIPTION Condenser Core Building Line Number 1 with Oven, with Thermal Incinerator

DATE INSTALLED 9/1/88

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.68 lb/hr	2.98
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; use of thermal incinerator

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P019

EMISSIONS UNIT DESCRIPTION Condenser Core Building Line Number 2 with Oven, with Thermal Incinerator

DATE INSTALLED 9/1/88

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.68	2.98
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; use of thermal incinerator

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P020

EMISSIONS UNIT DESCRIPTION Condenser Core Building Line Number 3 with Oven, with Thermal Incinerator

DATE INSTALLED 9/1/88

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.68lb/hr	2.98
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; use of thermal incinerator

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P034

EMISSIONS UNIT DESCRIPTION Condenser Core Building Line Number 4 with Oven, with Thermal Incinerator

DATE INSTALLED 3/1/98

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.68 lb/hr	2.98
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; use of thermal incinerator

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P035

EMISSIONS UNIT DESCRIPTION ED Sawing Process for the Cutting of Extruded Tubes for Copier Toner Cartridges, with Baghouse

DATE INSTALLED 7/97

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			0.11 lb/hr	0.48
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; use of baghouse

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P037

EMISSIONS UNIT DESCRIPTION Zinc Deposition Operation for Extruded Aluminum Tubes, with Baghouse

DATE INSTALLED 6/96

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			0.5	2.2
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; use of baghouse

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? X YES NOIDENTIFY THE AIR CONTAMINANTS: Zinc oxide (dust)

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P038

EMISSIONS UNIT DESCRIPTION Condenser Banding and Bracketing Line Number 1 for the Assembly of Automotive
Condensers

DATE INSTALLED 11/88

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.7 lb/hr	3.1
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; lubricant usage limitation of 2.5 gallons/day

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*?

X

YES

NO

IDENTIFY THE AIR CONTAMINANTS:

Isopropyl alcohol

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P039

EMISSIONS UNIT DESCRIPTION Condenser Banding and Bracketing Line Number 2 for the Assembly of Automotive Condensers

DATE INSTALLED 6/95

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.7 lb/hr	3.1
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; lubricant usage limitation of 2.5 gallons/day

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*?

X

YES

NO

IDENTIFY THE AIR CONTAMINANTS:

Isopropyl alcohol

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P040

EMISSIONS UNIT DESCRIPTION Condenser Banding and Bracketing Line Number 3 for the Assembly of Automotive
Condensers

DATE INSTALLED 5/98

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.7 lb/hr	3.1
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; lubricant usage limitation of 2.5 gallons/day

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*?

X

YES

NO

IDENTIFY THE AIR CONTAMINANTS:

Isopropyl alcohol

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

SIC CODE 3714

SCC CODE 3-14-999-99

EMISSIONS UNIT ID P041

EMISSIONS UNIT DESCRIPTION Condenser Banding and Bracketing Line Number 4 for the Assembly of Automotive Condensers

DATE INSTALLED 7/99

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment			0.7 lb/hr	3.1
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with applicable rules and regulations; lubricant usage limitation of 2.5 gallons/day

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? X YES NO

IDENTIFY THE AIR CONTAMINANTS: Isopropyl alcohol

9 NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	0000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input type="checkbox"/>

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

Showa Aluminum Corporation of America (Showa) submitted a PTI application to update the permit status of its facility located at 10500 O'Day Harrison Road, Mt. Sterling, Madison County. Showa manufactures aluminum components for the automotive industry; they also manufacture aluminum photocopier tubes. Showa, a Title V facility, is located in Madison County which is in attainment for all pollutants. PSD does not apply to this facility and MACT rules do not apply to these emissions units.

This PTI is for ten (10) emissions units at this facility. Four of the emissions units--P018, P019, P020, and P34--share a drying oven with a thermal incinerator as their control device. The oven and thermal incinerator were previously permitted in PTI 01-7358. However, CDO has determined that those units should have been permitted as part of the overall line and made the correction in this PTI. CDO intends to have the oven and thermal incinerator withdrawn from PTI 01-7358. OAC rule 3745-21-09 (U) (2) (e) applies to these four units. Based on information provided by the facility and a conversation with Paul Koval, Air Toxics Unit, CDO also concludes that the condenser core building line oil (functional coating) used with these emissions units is not subject to the Air Toxics Policy (the coating does not have a listed TLV).

P035 was previously unpermitted; OAC rules 3745-17-11 (B) (1) and 3745-17-07 (A) (1) apply to this unit. P037 was previously unpermitted; OAC rules 3745-17-11 (B) (1) and 3745-17-07 (A) (1) apply to this unit. This unit is subject to the Air Toxics Policy and hard copy modeling results are being submitted. P038, P039, P040, and P041 were previously unpermitted; OAC rule 3745-21-09 (U) (2) (e) applies to these units. These units are subject to the Air Toxics Policy and hard copy modeling results are being submitted.

Emissions calculations are provided below. Please contact Mike Ebner at 728-3807 if you have any questions.

P018 - Condenser Core Building Line Number 1 with Oven, with Thermal Incinerator

Maximum oil usage on condenser core building line is 0.33 gallons/hour.

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

VOC content of oil is 6.84 lbs per gallon.

 $(0.33 \text{ gallons/hour}) \times (6.84 \text{ lbs VOC/gallon}) = 2.26 \text{ lbs VOC/hour uncontrolled}$

Fugitive emissions include evaporative losses from production line = 0.6 lb/hr (from mass balance determination)

Remaining uncontrolled emissions: $(2.26 \text{ lbs VOC/hour uncontrolled}) - (0.6 \text{ lb/hr fugitive}) = 1.66 \text{ lbs VOC/hour uncontrolled}$

Capture efficiency of oven is 100% and destruction efficiency of thermal incinerator is 95%.

 $(1.66 \text{ lbs/hr} \times (1 - 0.95)) = 0.083 \text{ lb VOC/hr}$ Total hourly VOC emissions: (fugitive) + (oven) = $0.6 \text{ lb/hr} + 0.083 \text{ lb/hr} = 0.68 \text{ lb VOC/hr}$ Annual VOC emissions: $(0.68 \text{ lb VOC/hr}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs}) = 2.98 \text{ ton/year}$ **P019 - Condenser Core Building Line Number 2 with Oven, with Thermal Incinerator**

Same as P018

P020 - Condenser Core Building Line Number 3 with Oven, with Thermal Incinerator

Same as P018

P034 - Condenser Core Building Line Number 4 with Oven, with Thermal Incinerator

Same as P018

P035 - ED Sawing Process for the Cutting of Extruded Tubes for Copier Toner Cartridges, with Baghouse

Aluminum shavings are generated at a rate of 0.000366 lb per tube

63,000 tubes can be produced by ED per day

Capture efficiency for the dust collection system is 90%

Control efficiency of the dust collector is 99%

Hourly PE emissions:

 $(0.000366 \text{ lb PE/tube}) \times (63,000 \text{ tubes produced/day}) \times (1 - 0.90) = 2.31 \text{ lb PE/day fugitive}$ $(0.000366 \text{ lb PE/tube}) \times (63,000 \text{ tubes produced/day}) \times (0.90) \times (1 - 0.99) = 0.21 \text{ lb PE/day controlled}$ $0.21 \text{ lb PE} + 2.31 \text{ lb PE} = 2.52 \text{ lb PE/day (sum of controlled and fugitive emissions)}$ $(2.52 \text{ lb PE/day}) \times (1 \text{ day}/24 \text{ hours}) = 0.11 \text{ lb PE per hour total}$ Annual PE emissions: $(0.11 \text{ lb PE/hr}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs}) = 0.48 \text{ ton/year}$ **P037 - Zinc Deposition Operation for Extruded Aluminum Tubes, with Baghouse**

Maximum amount of PE created = 0.105 lb PE per kg of aluminum extruded

Maximum amount of aluminum extruded per hour = 479 kg per hour

Capture efficiency of system is 100%

Control efficiency of baghouse dust collector is 99%

 $(479 \text{ kg aluminum/hr}) \times (0.105 \text{ lb PM/kg aluminum}) \times (1 - 0.99) = 0.5 \text{ lb PE/hr}$

NEW SOURCE REVIEW FORM B

PTI Number: 01-08247

Facility ID: 0149000088

FACILITY NAME Showa Aluminum Corporation of America

FACILITY DESCRIPTION Core builder line number 1-4. zinc coating CITY/TWP Mount Sterling

Emissions Unit ID: P041

Annual PE emissions: $(0.5 \text{ lb PE/hr}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs}) = 2.2 \text{ tons PE/year}$

P038 - Condenser Banding and Bracketing Line Number 1 for the Assembly of Automotive Condensers

0.1 gallon isopropanol alcohol (as lubricant and cleaner) used per hour.

VOC content is 6.58 lb/gal.

$(0.1 \text{ gallon/hour}) \times (6.58 \text{ lb VOC/gallon}) = 0.7 \text{ lb VOC/hour}$

Annual VOC emissions: $(0.7 \text{ lb VOC/hr}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs}) = 3.1 \text{ tons VOC per year}$

P039 - Condenser Banding and Bracketing Line Number 2 for the Assembly of Automotive Condensers

Same as P038

P040 - Condenser Banding and Bracketing Line Number 3 for the Assembly of Automotive Condensers

Same as P038

P041 - Condenser Banding and Bracketing Line Number 4 for the Assembly of Automotive Condensers

Same as P038

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or Netting Determination
Permit To Install ENTER PTI NUMBER HERE

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only)

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	24.32
PE	2.68