



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov.
Center

Application No: 03-13953

DATE: 12/9/2003

Lima Army Tank Plant
Phillip Dawson
1155 Buckeye Road
Shawnee Township, OH 458041898

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
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

NWDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install
Terms and Conditions**

**Issue Date: 12/9/2003
Effective Date: 12/9/2003**

FINAL PERMIT TO INSTALL 03-13953

Application Number: 03-13953
APS Premise Number: 0302020027
Permit Fee: **\$600**
Name of Facility: Lima Army Tank Plant
Person to Contact: Phillip Dawson
Address: 1155 Buckeye Road
Shawnee Township, OH 458041898

Location of proposed air contaminant source(s) [emissions unit(s)]:
1155 Buckeye Road
Shawnee Township, Ohio

Description of proposed emissions unit(s):
3 paint spray booths with ovens.

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.9 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 ninety (90) days after commencing operation of the source(s) covered by this permit.

11. 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.

12. 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.

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

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

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

4. 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.

5. 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 cannot meet the requirements of this permit 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 cannot meet the requirements of this permit or cannot meet applicable standards.

6. 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.

7. 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).

8. 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.

9. 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>
OC	121.44
PE	8.64

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Lima Army Tank Plant

PTI Application: **03-13953**

Issued: 12/9/2003

Facility ID: **0302020027**

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

1. This emissions unit is subject to 40 CFR Part 63, Subpart M_{MMM}, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products. The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart M_{MMM}. The permittee shall also comply with all applicable requirements of 40 CFR Part 63, Subpart A (General Provisions) as identified in Table 2 of 40 CFR Part 63, Subpart M_{MMM}. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 63, Subpart M_{MMM} and Subpart A.

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

1. 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>OAC rule 3745-17-11 (B)</u>
Miscellaneous metal parts coating line with overspray control system (PA-1).	OAC rule 3745-31-05 (A) (3)	
	OAC rule 3745-21-09 (U) (1) (c)	
	OAC rule 3745-17-07 (A)	

Applicable Emissions
Limitations/Control
Measures

35 lbs organic compound (OC)/hr & 100.8 tons OC/yr from coating operations for emission units K001, K004, and K005 combined

3440 lbs OC/month & 20.64 tons OC/yr from cleanup operations for emission units K001, K004, and K005 combined

3.00 lbs particulate emissions (PE)/hr and 8.64 tons PE/yr from units K001, K004, and K005 combined (See A.I.2.d)

Visible PE shall not exceed 0% opacity as a six-minute average

See A.I.2.a.

Control Requirements (See A.I.2.c)

3.5 lbs VOC/gallon minus water and exempt solvents for extreme performance coating (daily volume-weighted average)

See A.I.2.b.

See A.I.2.b.

Emissions Unit ID: K001

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09 (U) (1) (c).

2.b The emission limitation specified by this rule is less stringent than the emission limitation established by OAC rule 3745-31-05 (A) (3).

2.c Best Available Technology (BAT) control requirements for this emissions unit has been determined to be use of an overspray control system for control of particulate emissions. The control system shall consist of a downdraft water control system and/or a dry filtration system achieving a minimum control efficiency of 90 % for PE.

BAT has also been determined to be compliance with the terms and conditions of this permit.

2.d Particulate emissions are inclusive of and assumed to be less than 10 microns in size (PM_{10}).

II. Operational Restrictions

1. The permittee shall operate the overspray control system whenever the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for emissions unit K001:
 - a. the company name and identification for each coating material employed;
 - b. the VOC content (excluding water and exempt solvents) and the number of gallons (excluding water and exempt solvents) of each coating, as applied;
 - c. the daily volume-weighted average VOC content of all coatings, as applied, calculated in accordance with the equation specified in paragraph (B) (9) of OAC rule 3745-21-10 for $C_{voc,2}$;
2. In addition to the monitoring and/or recordkeeping in section A.III.1. of this permit, the permittee shall maintain monthly records of the following information for emissions units K001, K004, and K005, combined:
 - a. the OC content of each coating, as applied, in lbs/gallon;
 - b. the number of gallons of each coating employed;

- c. the C emission rate for each coating, (sum of a x b for each coating employed), in lbs/month;
- d. the total OC emission rate for all coatings employed, (sum of c), in lbs/month; and
- e. the annual OC emissions, in tons, for all coatings employed (sum of d for each calendar month to date from January to December).

3. The permittee shall maintain monthly records of the following information for emissions units K001, K004, and K005, combined:
 - a. the name and identification number of each cleanup material employed;
 - b. the number of gallons of each cleanup material employed, in gallons;
 - c. the OC content of each cleanup material employed, in lbs/gallon;
 - d. the OC emissions rate from each cleanup material employed, in lbs/month (sum of b x c for each cleanup material employed);
 - e. the total OC emissions from cleanup materials employed, in lbs/month (sum of d), and;
 - f. the annual OC emissions, in tons, for all cleanup materials employed for emissions units K001, K004, and K005 (sum of e for each calendar month to date from January to December).

The company may calculate OC emissions from cleanup operations in accordance with the following formula if waste cleanup materials are sent off-site for reclamation/disposal:

VOC emissions from cleanup operations = (total gallons of cleanup material used x solvent density of cleanup material) - (total gallons of cleanup material sent off-site for disposal or reclamation [minus solids content of said material] x solvent density).

4. The permittee shall maintain daily records that document any time periods when the overspray control system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record showing that the overspray control system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be

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Issued: 12/9/2003

Emissions Unit ID: K001

sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1. of this permit to install shall be determined in accordance with the following methods:

Emissions Unit ID: K001

- a. Emission Limitation: 35 lbs OC/hr from coating operations

Applicable Compliance Method: The hourly emission limitation is based on the emission units potential to emit*. Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance.

*The potential to emit for this emissions unit was based on a maximum OC content of 3.5 lbs/gallon and a maximum hourly usage rate of 10 gallons/hr.

- b. Emission Limitation: 100.8 tons OC/yr from coating operations for emission units K001, K004, and K005 combined

Applicable Compliance Method: This emission limitation was developed by multiplying a combined maximum lb OC/hr from emission units K001, K004, and K005 (105 lbs/hr) by the maximum annual operating schedule of 1920 hrs/yr* and dividing by 2000 lbs/ton.

Compliance shall be determined based upon the recordkeeping requirements specified in section A.III.2. of this permit.

*1920 hrs/yr represents a maximum operating schedule based on an inherent physical limitation. The maximum hours of operation for emission units K001, K004, and K005 is limited by the maximum production capacity of units at the facility.

- c. Emission Limitation: 3440 lbs OC/month from cleanup operations for emission units K001, K004, and K005 combined

Applicable Compliance Method: The monthly emission limitation is based on the emission units potential to emit*. Therefore, no monthly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance.

*The potential to emit for this emissions unit was based on the combined maximum monthly cleanup material usage of 500 gallons/month for emission units K001, K004, and K005 and a maximum OC content of 6.88 lbs OC/gallon.

- d. Emission Limitation: 20.64 tons OC from cleanup operations for emission units K001, K004, and K005 combined

Applicable Compliance Method: Compliance shall be determined based upon the recordkeeping requirements specified in section A.III.3. of this permit.

- e. Emission Limitation: 3.5 pounds VOC per gallon of coating, excluding water and exempt solvents (daily volume-weighted average), for an extreme performance coating.

Applicable Compliance Method: Compliance shall be based upon the recordkeeping requirements specified in Section A.III.1. of this permit. Formulation data or USEPA

Method 24 shall be used to determine the VOC contents of the coatings.

- f. Emission Limitation: 3.00 lbs PE/hr

Applicable Compliance Method: The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E \text{ (hourly)} = (\text{maximum coating solids content in lbs/gal}) (\text{maximum gallon usage rate}) \times (1 - TE) (1 - CE \text{ for overspray control system})$$

where:

$$E \text{ (hourly)} = \text{PE rate in lbs/hr}$$

Maximum Coating Solids Content - 8.57 lbs/gal

Maximum Gallon Usage Rate - 10 gals/hr

TE = Transfer Efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used (assumed to be 65%)

CE = Control Efficiency of the control equipment (assumed to be 90.0%)

If required, the permittee shall demonstrate compliance with the hourly limitation by testing in accordance with US EPA Methods 1-5 of 40 CFR Part 60, Appendix A.

- g. Emission Limitation: 8.64 tons PE/yr from emission units K001, K004, and K005 combined

Applicable Compliance Method: This emission limitation was developed by multiplying a combined maximum lb PE/hr from emission units K001, K004, and K005 (9.00 lbs/hr) by the maximum annual operating schedule of 1920 hrs/yr* and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations for emissions units K001, K004, and K005, compliance will also be shown with the annual limitation.

*1920 hrs/yr represents a maximum operating schedule based on an inherent physical limitation. The maximum hours of operation for emission units K001, K004, and K005 is limited by the maximum production capacity of units at the facility.

- h. Emission Limitation: Visible PE shall not exceed 0% opacity as a six-minute average

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Lima Army Tank Plant
PTI Application: 02 12052
Issued

Facility ID: 0302020027

Emissions Unit ID: K001

Applicable Compliance Method: If required compliance with the visible PE limitation shall be determined in accordance with 40 CFR Part 60, Appendix A-Method 9.

VI. Miscellaneous Requirements

1. 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>
Miscellaneous metal parts coating line with overspray control system (PA-1).		

2. Additional Terms and Conditions

- 2.a None.

II. Operational Restrictions

1. None.

III. Monitoring and/or Recordkeeping Requirements

1. None.

IV. Reporting Requirements

1. None.

V. Testing Requirements

1. None.

VI. Miscellaneous Requirements

1. None.

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Issued: 12/9/2003

Emissions Unit ID: K001

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>	OAC rule 3745-17-11 (B)
Miscellaneous metal parts coating line with overspray control system (PA-2).	OAC rule 3745-31-05 (A) (3)	
	OAC rule 3745-21-09 (U) (1) (c)	
	OAC rule 3745-17-07 (A)	

Applicable Emissions
Limitations/Control
Measures

35 lbs organic compound (OC)/hr and 100.8 tons OC/yr from coating operations for emission units K001, K004, and K005 combined

3440 lbs OC/month & 20.64 tons OC/yr from cleanup operations from emission units K001, K004, and K005 combined

3.00 lbs particulate emissions (PE)/hr and 8.64 tons PE/yr from emission units K001, K004, and K005 combined (See A.I.2.d)

Visible PE shall not exceed 0% opacity as a six-minute average

See A.I.2.a.

Control Requirements (See A.I.2.c.)

3.5 lbs VOC/gallon minus water and exempt solvents for extreme performance coating

See A.I.2.b.

See A.I.2.b.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09 (U) (1) (c).

2.b The emission limitation specified by this rule is less stringent than the emission limitation established by OAC rule 3745-31-05 (A) (3).

2.c Best Available Technology (BAT) control requirements for this emissions unit has been determined to be use of an overspray control system for control of particulate emissions. The control system shall consist of a downdraft water control system and/or a dry filtration system achieving a minimum control efficiency of 90 % for PE.

BAT has also been determined to be compliance with the terms and conditions of this permit.

2.d Particulate emissions are inclusive of and assumed to be less than 10 microns in size (PM₁₀)

II. Operational Restrictions

1. The permittee shall operate the overspray control system whenever the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emission unit K004:

- a. the company name and identification for each coating material employed;
- b. the VOC content, excluding water and exempt solvents of each coating, as applied, in lbs/gallon;
- c. the OC content of each coating, as applied, in lbs/gallon;
- d. the number of gallons of each coating employed;
- e. the OC emission rate for each coating (sum of c x d for each coating employed), in lbs/month;

- f. the total OC emission rate for all coatings employed (sum of e), in pounds per month; and
 - g. the annual OC emissions, in tons, for all coatings employed (sum of f for each calendar month to date from January to December).
2. In addition to the monitoring and/or recordkeeping in section A.III.1. of this permit, the permittee shall maintain monthly records of the following information for emissions units K001, K004, and K005, combined:
- a. the name and identification number of each cleanup material employed;
 - b. the number of gallons of each cleanup material employed, in gallons;
 - c. the OC content of each cleanup material employed, in lbs/gallon;
 - d. the OC emissions rate from each cleanup material employed, in lbs/month (sum of b x c for each cleanup material employed);
 - e. the total OC emissions from cleanup material employed, in lbs/month (sum of d), and;
 - f. the annual OC emissions, in tons, for all cleanup materials employed for emissions units K001, K004, and K005 (sum of e for each calendar month to date from January to December).

The company may calculate OC emissions from cleanup operations in accordance with the following formula if waste cleanup materials are sent off-site for reclamation/disposal:

VOC emissions from cleanup operations = (total gallons of cleanup material used x solvent density of cleanup material) - (total gallons of cleanup material sent off-site for disposal or reclamation [minus solids content of said material] x solvent density).

3. The permittee shall maintain daily records that document any time periods when the overspray control system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record showing that the overspray control system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be

sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1. of this permit to install shall be determined in accordance with the following methods:
 - a. Emission Limitation: 35 lbs OC/hr from coating operations

Applicable Compliance Method: The hourly emission limitation is based on the emission units potential to emit*. Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance.

*The potential to emit for this emissions unit was based on a maximum OC content of 3.5 lbs/gallon and a maximum hourly usage rate of 10 gallons/hr.

- b. Emission Limitation: 100.8 tons OC/yr from coating operations for emission units K001, K004, and K005 combined

Applicable Compliance Method: This emission limitation was developed by multiplying a combined maximum lb OC/hr from emission units K001, K004, and K005 (105 lbs/hr) by the maximum annual operating schedule of 1920 hrs/yr* and dividing by 2000 lbs/ton.

Compliance shall be determined based upon the recordkeeping requirements specified in section A.III.2. of this permit.

*1920 hrs/yr represents a maximum operating schedule based on an inherent physical limitation. The maximum hours of operation for emission units K001, K004, and K005 is limited by the maximum production capacity of units at the facility.

- c. Emission Limitation: 3440 lbs OC/month from cleanup operations for units K001, K004, and K005 combined

Applicable Compliance Method: The monthly emission limitation is based on the emission units potential to emit*. Therefore, no monthly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance.

*The potential to emit for this emissions unit was based on the combined maximum monthly cleanup material usage of 500 gallons/month for emission units K001, K004, and K005 and a maximum OC content of 6.88 lbs OC/gallon.

- d. Emission Limitation: 20.64 tons OC from cleanup operations for emission units K001, K004, and K005 combined

Applicable Compliance Method: Compliance shall be determined based upon the recordkeeping requirements specified in section A.III.2. of this permit.

- e. Emission Limitation: 3.5 pounds VOC per gallon of coating, excluding water and exempt solvents, for an extreme performance coating.

Applicable Compliance Method: Compliance shall be based upon the recordkeeping requirements specified in Section A.III.1. of this permit. Formulation data or USEPA Method 24 shall be used to determine the VOC contents of the coatings.

- f. Emission Limitation: 3.00 lbs PE/hr

Emissions Unit ID: K004

Applicable Compliance Method: The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E \text{ (hourly)} = (\text{maximum coating solids content in lbs/gal}) (\text{maximum gallon usage rate}) \times (1 - TE) (1 - CE \text{ for overspray control system})$$

where:

$$E \text{ (hourly)} = \text{PE rate in lbs/hr}$$

Maximum Coating Solids Content - 8.57 lbs/gal

Maximum Gallon Usage Rate - 10 gals/hr

TE = Transfer Efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used (assumed to be 65%)

CE = Control Efficiency of the control equipment (assumed to be 90.0%)

If required, the permittee shall demonstrate compliance with the hourly limitation by testing in accordance with US EPA Methods 1-5 of 40 CFR Part 60, Appendix A.

- g. Emission Limitation: 8.64 tons PE/yr from emission units K001, K004, and K005 combined

Applicable Compliance Method: This emission limitation was developed by multiplying a combined maximum lb PE/hr from emission units K001, K004, and K005 (9.00 lbs/hr) by the maximum annual operating schedule of 1920 hrs/yr* and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations for emissions units K001, K004, and K005, compliance will also be shown with the annual limitation.

*1920 hrs/yr represents a maximum operating schedule based on an inherent physical limitation. The maximum hours of operation for emission units K001, K004, and K005 is limited by the maximum production capacity of units at the facility.

- h. Emission Limitation: Visible PE shall not exceed 0% opacity as a six-minute average

Applicable Compliance Method: If required compliance with the visible PE limitation shall be determined in accordance with 40 CFR Part 60, Appendix A-Method 9.

VI. Miscellaneous Requirements

1. 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>
Miscellaneous metal parts coating line with overspray control system (PA-2).		

2. Additional Terms and Conditions

- 2.a None.

II. Operational Restrictions

1. None.

III. Monitoring and/or Recordkeeping Requirements

1. None.

IV. Reporting Requirements

1. None.

V. Testing Requirements

1. None.

VI. Miscellaneous Requirements

1. None.

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Issued: 12/9/2003

Emissions Unit ID: K004

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>	OAC rule 3745-17-11 (B)
Miscellaneous metal parts coating line with overspray control system (PA-5).	OAC rule 3745-31-05 (A) (3)	
	OAC rule 3745-21-09 (U) (1) (c)	
	OAC rule 3745-17-07 (A)	

Applicable Emissions
Limitations/Control
Measures

35 lbs organic compound (OC)/hr and 100.8 tons OC/yr from coating operations for emission units K001, K004, and K005 combined

3440 lbs OC/month & 20.64 tons OC/yr from cleanup operations from emission units K001, K004, and K005 combined

3.00 lbs particulate emissions (PE)/hr and 8.64 tons PE/yr from emission units K001, K004, and K005 (See A.I.2.d)

Visible PE shall not exceed 0% opacity as a six-minute average

See A.I.2.a.

Control Requirements (See A.I.2.c.)

3.5 lbs VOC/gallon minus water and exempt solvents for extreme performance coating

See A.I.2.b.

See A.I.2.b.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09 (U) (1) (c).

- 2.b** The emission limitation specified by this rule is less stringent than the emission limitation established by OAC rule 3745-31-05 (A) (3).
- 2.c** Best Available Technology (BAT) control requirements for this emissions unit has been determined to be use of an overspray control system for control of particulate emissions. The control system shall consist of a downdraft water control system and/or a dry filtration system achieving a minimum control efficiency of 90 % for PE.
- BAT has also been determined to be compliance with the terms and conditions of this permit.
- 2.d** Particulate emissions are inclusive of and assumed to be less than 10 microns in size (PM₁₀)

II. Operational Restrictions

1. The permittee shall operate the overspray control system whenever the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emission unit K005:
 - a. the company name and identification for each coating material employed;
 - b. the VOC content, excluding water and exempt solvents of each coating, as applied, in lbs/gallon;
 - c. the OC content of each coating, as applied, in lbs/gallon;
 - d. the number of gallons of each coating employed;
 - e. the OC emission rate for each coating (sum of c x d for each coating employed) in lbs/month;
 - f. the total OC emission rate for all coatings employed (sum of e), in pounds per month; and
 - g. the annual OC emissions, in tons, for all coatings employed (sum of f for each calendar month to date from January to December).

2. In addition to the monitoring and/or recordkeeping in section A.III.1. of this permit, the permittee shall maintain monthly records of the following information for emissions units K001, K004, and K005, combined:
 - a. the name and identification number of each cleanup material employed;
 - b. the number of gallons of each cleanup material employed, in gallons;
 - c. the OC content of each cleanup material employed, in lbs/gallon;
 - d. the OC emissions rate from each cleanup material employed, in lbs/month (sum of b x c for each cleanup material employed);
 - e. the total OC emissions from cleanup material employed, in lbs/month (sum of d), and;
 - f. the annual OC emissions, in tons, for all cleanup materials employed for emissions units K001, K004, and K005 (sum of e for each calendar month to date from January to December).

The company may calculate OC emissions from cleanup operations in accordance with the following formula if waste cleanup materials are sent off-site for reclamation/disposal:

VOC emissions from cleanup operations = (total gallons of cleanup material used x solvent density of cleanup material) - (total gallons of cleanup material sent off-site for disposal or reclamation [minus solids content of said material] x solvent density).

3. The permittee shall maintain daily records that document any time periods when the overspray control system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record showing that the overspray control system was not in service when the

Emissions Unit ID: K005

emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1. of this permit to install shall be determined in accordance with the following methods:
 - a. Emission Limitation: 35 lbs OC/hr from coating operations

Applicable Compliance Method: The hourly emission limitation is based on the emission units potential to emit*. Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance.

*The potential to emit for this emissions unit was based on a maximum OC content of 3.5 lbs/gallon and a maximum hourly usage rate of 10 gallons/hr.

- b. Emission Limitation: 100.8 tons OC/yr from coating operations for emission units K001, K004, and K005

Applicable Compliance Method: This emission limitation was developed by multiplying a combined maximum lb OC/hr from emission units K001, K004, and K005 (105 lbs/hr) by the maximum annual operating schedule of 1920 hrs/yr* and dividing by 2000 lbs/ton.

Compliance shall be determined based upon the recordkeeping requirements specified in section A.III.2. of this permit.

*1920 hrs/yr represents a maximum operating schedule based on an inherent physical limitation. The maximum hours of operation for emission units K001, K004, and K005 is limited by the maximum production capacity of units at the facility.

- c. Emission Limitation: 3440 lbs OC/month from cleanup operations for units K001, K004, and K005 combined

Applicable Compliance Method: The monthly emission limitation is based on the emission units potential to emit*. Therefore, no monthly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance.

*The potential to emit for this emissions unit was based on the combined maximum monthly cleanup material usage of 500 gallons/month for emission units K001, K004, and K005 and a maximum OC content of 6.88 lbs OC/gallon.

- d. Emission Limitation: 20.64 tons OC from cleanup operations for emission units K001, K004, and K005 combined

Applicable Compliance Method: Compliance shall be determined based upon the recordkeeping requirements specified in section A.III.2. of this permit.

- e. Emission Limitation: 3.5 pounds VOC per gallon of coating, excluding water and exempt solvents, for an extreme performance coating.

Applicable Compliance Method: Compliance shall be based upon the recordkeeping requirements specified in Section A.III.1. of this permit. Formulation data or USEPA Method 24 shall be used to determine the VOC contents of the coatings.

- f. Emission Limitation: 3.00 lbs PE/hr

Applicable Compliance Method: The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E \text{ (hourly)} = (\text{maximum coating solids content in lbs/gal}) (\text{maximum gallon usage rate}) \times (1 - TE) (1 - CE \text{ for overspray control system})$$

where:

$$E \text{ (hourly)} = \text{PE rate in lbs/hr}$$

Maximum Coating Solids Content - 8.57 lbs/gal

Maximum Gallon Usage Rate - 10 gals/hr

TE = Transfer Efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used (assumed to be 65%)

CE = Control Efficiency of the control equipment (assumed to be 90.0%)

If required, the permittee shall demonstrate compliance with the hourly limitation by testing in accordance with US EPA Methods 1-5 of 40 CFR Part 60, Appendix A.

- g. Emission Limitation: 8.64 tons PE/yr from emission units K001, K004, and K005 combined

Applicable Compliance Method: This emission limitation was developed by multiplying a combined maximum lb PE/hr from emission units K001, K004, and K005 (9.00 lbs/hr) by the maximum annual operating schedule of 1920 hrs/yr* and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations for emissions units K001, K004, and K005, compliance will also be shown with the annual limitation.

*1920 hrs/yr represents a maximum operating schedule based on an inherent physical limitation. The maximum hours of operation for emission units K001, K004, and K005 is limited by the maximum production capacity of units at the facility.

- h. Emission Limitation: Visible PE shall not exceed 0% opacity as a six-minute average

Applicable Compliance Method: If required compliance with the visible PE limitation shall be determined in accordance with 40 CFR Part 60, Appendix A-Method 9.

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PTI Application: 02 12052
Issued

Facility ID: 0302020027

Emissions Unit ID: K005

VI. Miscellaneous Requirements

1. 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>
Miscellaneous metal parts coating line with overspray control system (PA-5).		

2. Additional Terms and Conditions

- 2.a None.

II. Operational Restrictions

1. None.

III. Monitoring and/or Recordkeeping Requirements

1. None.

IV. Reporting Requirements

1. None.

V. Testing Requirements

1. None.

VI. Miscellaneous Requirements

1. None.