State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
CHAMPAIGN COUNTY

Street Address:
122 S. Front Street
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 05-14385
Fac ID: 0511010009
DATE: 7/20/2006

Grimes Aerospace-owned by Allied-Signal
Molly little Field
PO Box 247
Urbana, OH 43078-0247

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 of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. 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, OH 43215

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA **SWDO**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 7/20/2006**
Terms and Conditions	**Effective Date: 7/20/2006**

FINAL PERMIT TO INSTALL 05-14385

Application Number:	05-14385
Facility ID:	0511010009
Permit Fee:	**$100**
Name of Facility:	Grimes Aerospace-owned by Allied-Signal
Person to Contact:	Molly little Field
Address:	PO Box 247 Urbana, OH 43078-0247

Location of proposed air contaminant source(s) [emissions unit(s)]:
550 St Rt 55, 515 N Russell, 240 Twain A
Urbana, **Ohio**

Description of proposed emissions unit(s):
Open Top Vapor Degreaser.

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

Joseph P. Koncelik

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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

10. Public Disclosure

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

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate 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.

12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
VOC	1.77
Toxics	< 1.0

Emissions Unit ID: **L006**

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment - (L006) - n-propyl bromide Open Top vapor Degreaser

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	Emissions from this emissions unit shall not exceed VOC 1.77 tons/yr The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(O)(3)(a) & (b)
OAC 3745-21-09(O)(3)(a) & (b)	See Section B. 1.

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

1. The open top vapor degreaser shall be equipped with and shall employ a cover and safety switches as described below:

   a. The cover shall be installed so that it can be opened and closed easily without disturbing the vapor zone.

   b. A condenser flow switch and thermostat (or other such device) shall shut off the sump heat if the condenser coolant is either not circulating or too warm.

   c. If using a spray application, a spray safety switch shall shut off the spray pump if the vapor level drops below any fixed spray nozzle.

   d. A vapor level control thermostat (or other such device) shall shut off the sump heat when the vapor level rises too high.

e. A water flow switch or water pressure switch (or other such device) shall shut off the sump heat if the water in a water-cooled condenser has no flow or no pressure, whichever is being monitored.

2. The open top vapor degreaser shall be equipped with a freeboard and a freeboard ratio greater than or equal to 0.75 shall be maintained. If the open top vapor degreaser opening is greater than 10 square feet, the cover must be powered or equipped with mechanical features whereby it can be readily closed when the degreaser is not in use.

3. The open top vapor degreaser shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:

   a. The cover shall be kept closed at all times except when processing work loads through the degreaser.

   b. Solvent carry-out shall be minimized by:

      i. racking parts so that solvent drains freely and is not trapped;

      ii. moving parts in and out of the degreaser at less than 11 feet per minute;

      iii. holding the parts in the vapor zone at least 30 seconds or until condensation ceases, whichever is longer;

      iv. tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and

      v. allowing parts to dry within the degreaser for at least 15 seconds or until visually dry, whichever is longer.

   c. Porous and/or absorbent materials shall not be cleaned.

   d. Workloads shall occupy no more than one-half of the degreaser's open-top area.

   e. Solvent spraying shall only be conducted within the vapor level.

   f. Solvent leaks shall be repaired immediately, or the degreased shall be shut down.

g. Solvent waste shall only be stored in covered containers.

h. The degreased shall be operated so that water cannot be visually detected in solvent exiting the water separator.

i. No ventilation fans shall be used near the degreaser opening.

j. When the cover is open, the open top vapor degreaser shall not be exposed to drafts greater than 131 feet per minute, as measured between 3 and 6 feet upwind and at the same elevation as the tank lip.

k. If a lip exhaust is used on the open top vapor degreaser, the ventilation rate shall not exceed 65 cubic feet per minute per square foot of degreaser open area, unless a higher rate is necessary to meet Occupational Safety and Health Administration requirements.

l. A permanent, conspicuous label, summarizing the operating procedures shall be posted on or near to the degreaser.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the following information:

   a. the types of solvents employed in the open top vapor degreaser, including the chemical name(s) and concentration;

   b. a record of the freeboard ratio before and after each addition of make-up solvent and the date of the solvent addition; and

   c. any period of time in which the freeboard ratio is not maintained at 0.75 or greater.

   These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.

2. The permittee shall maintain records of the following information, collected at the end of each year:

   a. the total cleaning solvent added to the open top vapor degreaser or the amount purchased for use in the emissions unit during the year;

b. the total amount of solvent collected for disposal and/or recovery and shipped off-site during the year; and

c. the estimated annual VOC emissions from this emissions unit, calculated using the difference between the solvent used or purchased and the used solvent shipped offsite, adjusting the units to calculate the emissions in tons/year.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports documenting any period of time in which the open top vapor degreaser was not operated and maintained in accordance with the requirements of this permit.

2. The permittee shall submit quarterly deviation reports documenting any period of time in which the freeboard was not maintained at a ratio of 0.75 or greater.

E. Testing Requirements

1. The permittee shall quantify VOC emissions through a material balance test, conducted for a sufficient period of time to compute an average emission rate. The following procedures shall be implemented in order to perform this material balance test and document the average VOC emissions from this emissions unit:

   a. the degreaser sump shall be cleaned before testing begins;

   b. record the amount of initial solvent and make-up solvent added to the tank with a flow meter or other means of measurement of the volume or weight;

   c. maintain a record of the type and amount or weight of work load or parts degreased/cleaned each day or over the period of the test;

   d. at the end of the test period (which can coincide with the normal solvent replacement cycle) pump out the used solvent and measure the amount, using a flow meter or other means of measurement of the volume or weight;

   e. record the time of averaging for the test period and/or the number of parts cleaned, i.e., the number of hours or days passing and/or the number of parts cleaned, from the time fresh solvent is first added to the solvent cleaner ("b") to the removal of the used solvent;

   f. bottle a sample of the used solvent and have it analyzed* for the percent oil, metal chips, and other contaminants;

   g. calculate** the total of VOC emissions from the emissions unit during the test period, which shall equal the total solvent added to the tank minus the solvent contained in the recovered used solvent sent offsite for disposal or recovery; and

   h. calculate the average VOC emissions rate by dividing the total emissions calculated in "g" by the total hours of the test period or total parts cleaned during the test period as recorded in "e".

   * The oil and solvent proportions can be estimated by weighing samples of used solvent before and after boiling off the solvent.

   ** If solvent measurements are recorded by volume the density of the solvent shall

be used to convert gallons to pounds.

F. Miscellaneous Requirements

None