



State of Ohio Environmental Protection Agency

Street Address:

1800 WaterMark Drive  
Columbus, OH 43215-1099

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

Mailing Address:

P.O. Box 1049  
Columbus, OH 43216-1049

04/30/98

**CERTIFIED MAIL**

**RE: Draft Title V Chapter 3745-77 permit**

03-74-01-0117  
AlliedSignal, Inc. - Filters and Spark Plug Division  
Geoffrey E Walter  
P.O. Box 880  
1600 N. Union Street  
Fostoria, OH 44830-000

Dear Geoffrey E Walter:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Northwest District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

**If you have any questions or comments concerning this draft Title V permit, please contact Northwest District Office.**

Very truly yours,

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

cc: USEPA  
Jim Orlemann, DAPC Engineering  
Michael Ahern, DAPC PMU  
Northwest District Office  
Michigan



## Ohio EPA

State of Ohio Environmental Protection Agency

### TITLE V PERMIT

Issue Date: 04/30/98

### DRAFT

Effective Date:

Expiration Date:

This document constitutes issuance to:

AlliedSignal, Inc. - Filters and Spark Plug Division  
1600 N. Union Street  
Fostoria, OH 44830-000

of a Title V permit for Facility ID: 03-74-01-0117

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

P054 (NIRO SPRAY DRYER (Dept 3))

Drying of ceramic slurry into a powder for spark plug production

P073 (RATING CELL)

One Test cell used for testing spark plug rating specifications

P074 (DYNO CELLS)

Two test cells for spark plug and oxygen sensor quality assurance testing as well as R&D

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402  
(419) 352-8461

**OHIO ENVIRONMENTAL PROTECTION AGENCY**

---

Director

# PART I - GENERAL TERMS AND CONDITIONS

## A. State and Federally Enforceable Section

### 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 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 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 promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. 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. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 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. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. 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 submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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.

## **8. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

## **9. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

## **10. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

## **11. 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.

## **12. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.
  - 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.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:

- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
- ii. Compliance certifications shall include the following:
  - (a) An identification of each term or condition of this permit that is the basis of the certification.
  - (b) The permittee's current compliance status.
  - (c) Whether compliance was continuous or intermittent.
  - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
  - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

### **13. Permit Shield**

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

### **14. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

### **15. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

### **16. Off Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

#### 17. **Compliance Method Requirements**

No term or condition specifying a method for demonstrating compliance with any emission limitation or other requirement of this permit shall preclude the use by any person of any credible evidence to establish compliance with or a violation of this permit, the Clean Air Act, or any implementing regulations or rules promulgated thereunder.

## **B. State Only Enforceable Section**

### **1. Permit to Install Requirement**

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

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

The permittee shall submit required reports in the following manner:

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

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

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

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

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

## **Part II - Specific Facility Terms and Conditions**

### **A. State and Federally Enforcable Section**

**None**

## **B. State Only Enforceable Section**

1. The following insignificant emissions units are located at this facility:

BOILER 1, Ohio EPA emissions unit B011;  
BOILER 2, Ohio EPA emissions unit B012;  
BOILER 3, Ohio EPA emissions unit B013;  
BOILER 4, Ohio EPA emissions unit B014;  
BOILER 5, Ohio EPA emissions unit B015;  
GASOLINE DISPENSING FACILITY, Ohio EPA emissions unit G001;  
DEPT 3 TURNING, Ohio EPA emissions unit P001;  
CERAMIC FIRING KILNS, Ohio EPA emissions unit P002;  
GLAZE KILNS, Ohio EPA emissions unit P003;  
SEALING KILNS, Ohio EPA emissions unit P004;  
CLAY MIXING, Ohio EPA emissions unit P005;  
DEPT 8 TURNING, Ohio EPA emissions unit P055;  
DEPT 8 SPRAY DRYER, Ohio EPA emissions unit P056;  
DEPT 23 SPRAY DRYER, Ohio EPA emissions unit P057;  
CURRENT TREAT FURNACE, Ohio EPA emissions unit P059;  
SAGGER DRYER, Ohio EPA emissions unit P060;  
MAINTENANCE PAINTING, Ohio EPA emissions unit P061;  
INSULATOR TURNING, Ohio EPA emissions unit P062;  
HARROP KILN, Ohio EPA emissions unit P063;  
DEPT 10 PRESSES, Ohio EPA emissions unit P064;  
BICKLEY KILN, Ohio EPA emissions unit P065;  
K-1 PNEUMATIC UNLOADER, Ohio EPA emissions unit P066;  
DENISON HOT PRESS, Ohio EPA emissions unit P067;  
FUNCTIONAL TESTER, Ohio EPA emissions unit P069;  
TAMPER VACUUM, Ohio EPA emissions unit P071;  
OFFLINE TURNING, Ohio EPA emissions unit P072;  
GLAZE SPRAY, Ohio EPA emissions unit R001;  
DYKEM 5-9 LACQUER SPRAY, Ohio EPA emissions unit R004;  
PROTOTYPE SPRAY BOOTH, Ohio EPA emissions unit R005;  
AIRCRAFT PLUG GLAZER, Ohio EPA emissions unit R007;  
TIP GLAZE, Ohio EPA emissions unit R008;  
TANK 4, Ohio EPA emissions unit Z006;  
TANK 5, Ohio EPA emissions unit Z007;  
TANK 6, Ohio EPA emissions unit Z008;  
SPINDLE CLEANING, Ohio EPA emissions unit Z009;  
WASHERS, Ohio EPA emissions unit Z015;  
SINGLE WIDE KILN No 1, Ohio EPA emissions unit Z022;  
SINGLE WIDE KILN No 2, Ohio EPA emissions unit Z023;  
SINGLE WIDE KILN No 3, Ohio EPA emissions unit Z024;  
KILN #4, Ohio EPA emissions unit Z025;

**B. State Only Enforceable Section (continued)**

KILN #7, Ohio EPA emissions unit Z026;  
DOUBLE WIDE KILN, Ohio EPA emissions unit Z027;  
SEAL KILN No 1, Ohio EPA emissions unit Z029;  
SEAL KILN No 2, Ohio EPA emissions unit Z030;  
SEAL KILN No 3, Ohio EPA emissions unit Z031;  
SEAL KILN No 4, Ohio EPA emissions unit Z032;  
SEAL KILN No 5, Ohio EPA emissions unit Z033;  
SEAL KILN No 6, Ohio EPA emissions unit Z034;  
SEAL KILN No 7, Ohio EPA emissions unit Z035;  
SEAL KILN No 8, Ohio EPA emissions unit Z036;  
SEAL KILN No 9, Ohio EPA emissions unit Z037;  
SEAL KILN No 10, Ohio EPA emissions unit Z038;  
SEAL KILN No 11, Ohio EPA emissions unit Z039;  
SEAL KILN No 12, Ohio EPA emissions unit Z040;  
SEAL KILN No 13, Ohio EPA emissions unit Z041; and  
SEAL KILN No 14, Ohio EPA emissions unit Z042.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

**Part III - Terms and Conditions for Emissions Units**

**Emissions Unit ID:** NIRO SPRAY DRYER (Dept 3) (P054)

**Activity Description:** Drying of ceramic slurry into a powder for spark plug production

**A. State and Federally Enforceable Section**

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

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
'Niro' spray dryer, for ceramic raw material w/ a wet venturi scrubber	OAC 3745-17-11(B)(2)	11.5 lbs particulate emissions (PE)/hr
	OAC 3745-17-07(A)(1-3)	20% opacity, except as provided by rule

**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

- The pressure drop across the scrubber shall be continuously maintained at a value of not less than 3.0 inches of water at all times while the emissions unit is in operation.
- The scrubber water flow rate shall be continuously maintained at a value of not less than 16 gallons per minute at all times while the emissions unit is in operation.

Facility Name: **AlliedSignal, Inc. - Filters and Spark Plug Division**

Facility ID: **03-74-01-0117**

Emissions Unit: **NIRO SPRAY DRYER (Dept 3) (P054)**

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water, on a once-per-shift basis;
- b. the scrubber water flow rate, in gallons per minute, on a once-per-shift basis; and
- c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
  - a. the static pressure drop across the scrubber; and
  - b. the scrubber water flow rate.

The deviation reports shall be submitted as specified in General Condition A.1.c of this permit.

### V. Testing Requirements

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

- 1.a Emission Limitation:  
11.5 lbs PE/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(10) (see section V.2 below).

- 1.b Emission Limitation:  
20% opacity, except as provided by rule

Applicable Compliance Method:

OAC 3745-17-03(B)(1)

## V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months prior to permit renewal.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): OAC rule 3745-17-03(B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
'Niro' spray dryer, for ceramic raw material w/ a wet venturi scrubber	None	None

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - Terms and Conditions for Emissions Units**

**Emissions Unit ID:** RATING CELL (P073)

**Activity Description:** One Test cell used for testing spark plug rating specifications

**A. State and Federally Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
spark plug rating test cell - 600 horsepower maximum output (4.2 mmBtu/hr input)	OAC 3745-17-11 (B)(5)(a) See section A.VI.	0.31 pound particulate emissions (PE)/mmBtu heat input (see A.I.2.c)
	OAC 3745-17-07 (A)(1-3) See section A.VI.	20 % opacity, except as provided by rule
	OAC 3745-31-02 (A)(2) See section A.VI.	See A.I.2.a.

**2. Additional Terms and Conditions**

- 2.a The combined carbon monoxide (CO) emissions from emissions units P073 and P074 shall not exceed 230 tons/year, based upon a rolling, 12-month summation of the monthly emissions.

**2. Additional Terms and Conditions (continued)**

**2.b** In order to ensure enforceability of the CO rolling, 12-month emission limitation during the first 12 calendar months of operation, the permittee shall not exceed the following allowable cumulative total emission restrictions, in tons, for emissions units P073 and P074 combined:

Month(s)	CO
1	76.7
1-2	90.6
1-3	104.5
1-4	118.5
1-5	132.4
1-6	146.4
1-7	160.3
1-8	174.2
1-9	188.2
1-10	202.1
1-11	216.1
1-12	230.0

After the first 12 calendar months of operation, compliance with the annual emission limitation for CO shall be based upon a rolling, 12-month summation of the monthly emissions.

**2.c** This rule citation reflects the settlement agreement reached between Ohio EPA and the appellants concerning their appeals to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of these limitations as a revision to the Ohio SIP for particulate matter.

**II. Operational Restrictions**

**None**

**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records and calculations, which list the following information for emissions units P073 and P074 combined:
  - a. The testing operations employed (i.e., either spark plug rating, spark plug performance testing, or O2 sensor performance testing).
  - b. The number of gallons of fuel employed for each testing operation (gasoline for spark plug and O2 sensor performance testing, and benzene for spark plug rating).
  - c. The total monthly emissions of CO, in tons, calculated as follows:

CO emissions (tons/month) = the summation of (the number of gallons of fuel consumed/month from  $i \times EFi$  for CO) for  $i=1,2,3$

where,

$i = 1$  = spark plug rating;

$i = 2$  = spark plug performance testing;

$i = 3$  = O2 sensor performance testing; and

EFi = the emission factor for CO, in lbs/gallon, which shall be derived from the most recent stack test on this emissions unit. The current EFi values for CO based on the most recent stack test are as follows:

Pollutant	Spark Plug Rating	Spark Plug Performance	O2 Sensor Performance
CO	13.37	4.54	2.73

- d. Beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the monthly CO emissions, in tons.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative monthly CO emissions, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

Facility Name: **AlliedSignal, Inc. - Filters and Spark Plug Division**

Facility ID: **03-74-01-0117**

Emissions Unit: **RATING CELL (P073)**

#### **IV. Reporting Requirements**

1. The permittee shall submit annual reports which specify the total CO emissions from emissions units P073 and P074 combined. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
2. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month emission limit of 230 tons CO per year, and the cumulative monthly limits in section A.I.2.b.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The deviation reports shall be submitted as specified in General Condition A.1.c of this permit.

#### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 1.a Emission Limitation:  
0.31 pound particulate emissions (PE) per mmBtu heat input  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the above limit by using the emission factor from USEPA's AP-42, Table 3.3-1.  
  
If required, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(10).
  - 1.b Emission Limitation:  
20% opacity, except as provided by rule  
  
Applicable Compliance Method:  
OAC 3745-17-03(B)(1)
  - 1.c Emission Limitations:  
230 tons/yr CO (for emissions units P073 and P074 combined)  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the above limit pursuant to the record keeping requirements in section A.III. of this permit.

## **V. Testing Requirements (continued)**

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for carbon monoxide.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 10, 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

## **VI. Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the requirements for this emissions unit contained in permit to install number 03-10087, as issued on November 5, 1997: A.I.1, A.I.2.a & b, A.III, A.IV, A.V, B.I, B.III, B.IV, and B.V.

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
spark plug rating test cell - 600 horsepower maximum output (4.2 mmBtu/hr input)	OAC 3745-31-05 See section A.VI.	40.2 lbs CO/hr (see B.1.2.a) 1.02 lbs NOx/hr (see B.1.2.a) 1.11 lbs OC/hr (see B.1.2.a) 0.1 lb PE/hr (see B.1.2.a) 0.44 ton PE/yr (see B.1.2.a)
	OAC 3745-31-02 See section A.VI.	See B.1.2.b-d.

**2. Additional Terms and Conditions**

- 2.a** The emission limitations of 40.2 lbs CO/hr, 1.02 lbs NOx/hr, 1.11 lbs OC/hr, 0.1 lb PE/hr, and 0.44 ton PE/yr reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- 2.b** The NOx emissions from emissions units P073 and P074 combined shall not exceed 22.3 tons/year, based upon a rolling, 12-month summation of the monthly emissions.
- 2.c** The OC emissions from emissions units P073 and P074 combined shall not exceed 12.7 tons/year, based upon a rolling, 12-month summation of the monthly emissions.

Facility Name: **AlliedSignal, Inc. - Filters and Spark Plug Division**

Facility ID: **03-74-01-0117**

Emissions Unit: **RATING CELL (P073)**

## 2. Additional Terms and Conditions (continued)

**2.d** During the first 12 calendar months of operation, the permittee shall not exceed the following allowable cumulative total emission restrictions, in tons, for emissions units P073 and P074 combined:

Month(s)	NOx	OC
1	7.4	4.2
1-2	8.8	5.0
1-3	10.1	5.8
1-4	11.5	6.5
1-5	12.8	7.3
1-6	14.2	8.1
1-7	15.5	8.9
1-8	16.9	9.6
1-9	18.2	10.4
1-10	19.6	11.2
1-11	20.9	11.9
1-12	22.3	12.7

After the first 12 calendar months of operation, compliance with the annual emission limitations for OC and NOx shall be based upon a rolling, 12-month summation of the monthly emissions.

## II. Operational Restrictions

**None**

**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records and calculations, which list the following information for emissions units P073 and P074 combined:

a. The total monthly emissions of NOx and OC, in tons, calculated as follows:

emissions (tons/month) for Z = the summation of (the number of gallons of fuel consumed/month from i X EFi for Z) for i=1,2,3

where,

i = 1 = spark plug rating;

i = 2 = spark plug performance testing;

i = 3 = O2 sensor performance testing;

Z = either NOx or OC; and

EFi = the emission factor for Z, in lbs/gallon, which shall be derived from the most recent stack test on this emissions unit. The current EFi values for OC and NOx based on the most recent stack test are as follows:

Pollutant	Spark Plug Rating	Spark Plug Performance	O2 Sensor Performance
NOx	0.34	0.44	0.01
OC	0.37	0.25	0.03

b. Beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the monthly NOx and OC emissions, in tons.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative monthly NOx and OC emissions, in tons.

**IV. Reporting Requirements**

1. The permittee shall submit annual reports which specify the total OC and NOx emissions from emissions units P073 and P074 combined. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
2. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month emission limits of 12.7 tons OC per year and 22.3 tons NOx per year, and the cumulative monthly limits in section B.1.2.d.
3. The deviation reports shall be submitted as specified in General Condition A.1.c of this permit.

## V. Testing Requirements

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

- 1.a

Emission Limitation:  
0.1 lb PE/hr

Applicable Compliance Method:

To determine the actual worst-case particulate emissions rate (E), in pounds per hour, the following equation shall be used for this emissions unit:

$$E \text{ (lbs/hr)} = \text{maximum rated heat input (mmBtu per hour)} \times (EF)$$

EF = emission factor from USEPA's AP-42, Table 3.3-1

If required, the permittee shall demonstrate compliance with the hourly emission limit pursuant to Method 5, 40 CFR 60, Appendix A.

- 1.b

Emission Limitation:

0.44 ton PE/yr

Applicable Compliance Method:  
Compliance with the annual emission limitation shall be demonstrated by multiplying the hourly emission limit, in pounds per hour, by the emissions unit's actual annual operating hours, and dividing by 2000.

- 1.c

Emission Limitation:

40.2 lbs CO/hr

Compliance Method:  
The permittee shall use the test results from section A.V.2 of this permit to demonstrate compliance with the allowable emission limitation above.

- 1.d

Emission Limitation:

1.02 lbs NOx/hr

Applicable compliance method:  
If required, the permittee shall demonstrate compliance with the above limit pursuant to Method 7, 40 CFR Part 60, Appendix A.

**V. Testing Requirements (continued)**

- 1.e** Emission Limitation:  
1.11 lbs OC/hr

Applicable compliance method:

If required, the permittee shall demonstrate compliance with the above limit pursuant to Method 25, 40 CFR Part 60, Appendix A.

- 1.f** Emission Limitations:  
12.7 tons/yr OC (for emissions units P073 and P074 combined)  
22.3 tons/yr NOx (for emissions units P073 and P074 combined)

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits pursuant to the record keeping requirements in section B.III. of this permit.

**VI. Miscellaneous Requirements**

**None**

**Part III - Terms and Conditions for Emissions Units**

**Emissions Unit ID:** DYNO CELLS (P074)

**Activity Description:** Two test cells for spark plug and oxygen sensor quality assurance testing as well as R&D

**A. State and Federally Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
two spark plug and O2 sensor performance test cells-2400 horsepower maximum output (16.8 mmBtu/hr input)	OAC 3745-17-11 (B)(5)(a) See section A.VI.	0.31 pound particulate emissions (PE)/mmBtu heat input (see A.I.2.c)
	OAC 3745-17-07 (A)(1-3) See section A.VI.	20 % opacity, except as provided by rule
	OAC 3745-31-02 (A)(2) See section A.VI.	See A.I.2.a.

**2. Additional Terms and Conditions**

- 2.a The combined carbon monoxide (CO) emissions from emissions units P073 and P074 shall not exceed 230 tons/year, based upon a rolling, 12-month summation of the monthly emissions.

**2. Additional Terms and Conditions (continued)**

**2.b** In order to ensure enforceability of the CO rolling, 12-month emission limitation during the first 12 calendar months of operation, the permittee shall not exceed the following allowable cumulative total emission restrictions, in tons, for emissions units P073 and P074 combined:

Month(s)	CO
1	76.7
1-2	90.6
1-3	104.5
1-4	118.5
1-5	132.4
1-6	146.4
1-7	160.3
1-8	174.2
1-9	188.2
1-10	202.1
1-11	216.1
1-12	230.0

After the first 12 calendar months of operation, compliance with the annual emission limitation for CO shall be based upon a rolling, 12-month summation of the monthly emissions.

**2.c** This rule citation reflects the settlement agreement reached between Ohio EPA and the appellants concerning their appeals to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of these limitations as a revision to the Ohio SIP for particulate matter.

**II. Operational Restrictions**

**None**

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records and calculations, which list the following information for emissions units P073 and P074 combined:
  - a. The testing operations employed (i.e., either spark plug rating, spark plug performance testing, or O2 sensor performance testing).
  - b. The number of gallons of fuel employed for each testing operation (gasoline for spark plug and O2 sensor performance testing, and benzene for spark plug rating).
  - c. The total monthly emissions of CO, in tons, calculated as follows:

CO emissions (tons/month) = the summation of (the number of gallons of fuel consumed/month from  $i$  X EFi for CO) for  $i=1,2,3$

where,

$i = 1$  = spark plug rating;

$i = 2$  = spark plug performance testing;

$i = 3$  = O2 sensor performance testing; and

EFi = the emission factor for CO, in lbs/gallon, which shall be derived from the most recent stack test on this emissions unit. The current EFi values for CO based on the most recent stack test are as follows:

Pollutant	Spark Plug Rating	Spark Plug Performance	O2 Sensor Performance
CO	13.37	4.54	2.73

- d. Beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the monthly CO emissions, in tons.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative monthly CO emissions, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

Facility Name: **AlliedSignal, Inc. - Filters and Spark Plug Division**

Facility ID: **03-74-01-0117**

Emissions Unit: **DYNO CELLS (P074)**

#### **IV. Reporting Requirements**

1. The permittee shall submit annual reports which specify the total CO emissions from emissions units P073 and P074 combined. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
2. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month emission limit of 230 tons CO per year, and the cumulative monthly limits in section A.I.2.b.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The deviation reports shall be submitted as specified in General Condition A.1.c of this permit.

#### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 1.a Emission Limitation:  
0.31 pound particulate emissions (PE) per mmBtu heat input  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the above limit by using the emission factor from USEPA's AP-42, Table 3.3-1.  
  
If required, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(10).
  - 1.b Emission Limitation:  
20% opacity, except as provided by rule  
  
Applicable Compliance Method:  
OAC 3745-17-03(B)(1)
  - 1.c Emission Limitations:  
230 tons/yr CO (for emissions units P073 and P074 combined)  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the above limit pursuant to the record keeping requirements in section A.III. of this permit.

## V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for carbon monoxide.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 10, 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

## VI. Miscellaneous Requirements

1. The following terms and conditions shall supersede all the requirements for this emissions unit contained in permit to install number 03-10087, as issued on November 5, 1997: A.I.1, A.I.2.a & b, A.III, A.IV, A.V, B.I, B.III, B.IV, and B.V.

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
two spark plug and O2 sensor performance test cells-2400 horsepower maximum output (16.8 mmBtu/hr input)	OAC 3745-31-05 See section A.VI.	545 lbs CO/hr (see B.I.2.a) 52.8 lbs NOx/hr (see B.I.2.a) 30 lbs OC/hr (see B.I.2.a) 1.2 lbs PE/hr (see B.I.2.a) 5.26 tons PE/yr (see B.I.2.a)
	OAC 3745-31-02 See section A.VI.	See B.I.2.b-d.

**2. Additional Terms and Conditions**

- 2.a The emission limitations of 545 lbs CO/hr, 52.8 lbs NOx/hr, 30 lbs OC/hr, 1.2 lbs PE/hr, and 5.26 tons PE/yr reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- 2.b The NOx emissions from emissions units P073 and P074 combined shall not exceed 22.3 tons/year, based upon a rolling, 12-month summation of the monthly emissions.
- 2.c The OC emissions from emissions units P073 and P074 combined shall not exceed 12.7 tons/year, based upon a rolling, 12-month summation of the monthly emissions.

**2. Additional Terms and Conditions (continued)**

**2.d** During the first 12 calendar months of operation, the permittee shall not exceed the following allowable cumulative total emission restrictions, in tons, for emissions units P073 and P074 combined:

Month(s)	NOx	OC
1	7.4	4.2
1-2	8.8	5.0
1-3	10.1	5.8
1-4	11.5	6.5
1-5	12.8	7.3
1-6	14.2	8.1
1-7	15.5	8.9
1-8	16.9	9.6
1-9	18.2	10.4
1-10	19.6	11.2
1-11	20.9	11.9
1-12	22.3	12.7

After the first 12 calendar months of operation, compliance with the annual emission limitations for OC and NOx shall be based upon a rolling, 12-month summation of the monthly emissions.

**II. Operational Restrictions**

**None**

**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records and calculations, which list the following information for emissions units P073 and P074 combined:

a. The total monthly emissions of NOx and OC, in tons, calculated as follows:

emissions (tons/month) for Z = the summation of (the number of gallons of fuel consumed/month from i X EFi for Z) for i=1,2,3

where,

i = 1 = spark plug rating;

i = 2 = spark plug performance testing;

i = 3 = O2 sensor performance testing;

Z = either NOx or OC; and

EFi = the emission factor for Z, in lbs/gallon, which shall be derived from the most recent stack test on this emissions unit. The current EFi values for OC and NOx based on the most recent stack test are as follows:

Pollutant	Spark Plug Rating	Spark Plug Performance	O2 Sensor Performance
NOx	0.34	0.44	0.01
OC	0.37	0.25	0.03

b. Beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the monthly NOx and OC emissions, in tons.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative monthly NOx and OC emissions, in tons.

**IV. Reporting Requirements**

1. The permittee shall submit annual reports which specify the total OC and NOx emissions from emissions units P073 and P074 combined. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
2. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month emission limits of 12.7 tons OC per year and 22.3 tons NOx per year, and the cumulative monthly limits in section B.1.2.d.
3. The deviation reports shall be submitted as specified in General Condition A.1.c of this permit.

## V. Testing Requirements

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

**1.a**

Emission Limitation:  
1.2 lbs PE/hr

Applicable Compliance Method:

To determine the actual worst-case particulate emissions rate (E), in pounds per hour, the following equation shall be used for this emissions unit:

$$E \text{ (lbs/hr)} = \text{maximum rated heat input (mmBtu per hour)} \times (EF)$$

EF = emission factor from USEPA's AP-42, Table 3.3-1

If required, the permittee shall demonstrate compliance with the hourly emission limit pursuant to Method 5, 40 CFR 60, Appendix A.

- 1.b** Emission Limitation:  
5.26 tons PE/yr

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by multiplying the hourly emission limit, in pounds per hour, by the emissions unit's actual annual operating hours, and dividing by 2000.

- 1.c** Emission Limitation:  
545 lbs CO/hr

Compliance Method:

The permittee shall use the test results from section A.V.2 of this permit to demonstrate compliance with the allowable emission limitation above.

- 1.d** Emission Limitation:  
52.8 lbs NOx/hr

Applicable compliance method:

If required, the permittee shall demonstrate compliance with the above limit pursuant to Method 7, 40 CFR Part 60, Appendix A.

**V. Testing Requirements (continued)**

- 1.e** Emission Limitation:  
30 lbs OC/hr

Applicable compliance method:

If required, the permittee shall demonstrate compliance with the above limit pursuant to Method 25, 40 CFR Part 60, Appendix A.

- 1.f** Emission Limitations:  
12.7 tons/yr OC (for emissions units P073 and P074 combined)  
22.3 tons/yr NOx (for emissions units P073 and P074 combined)

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits pursuant to the record keeping requirements in section B.III. of this permit.

**VI. Miscellaneous Requirements**

**None**

Facility Name: **AlliedSignal, Inc. - Filters and Spark Plug Division**  
Facility ID: **03-74-01-0117**

\*\*\*\*\*

**THIS IS THE LAST PAGE OF THE PERMIT**

\*\*\*\*\*