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## Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Remote Controls, Inc.  
512 South Merrifield Avenue  
Mishawaka, Indiana 46544**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. 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 conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 141-20031-00167	
Issued by: Original Signed By:  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: October 4, 2006  Expiration Date: October 4, 2011

## TABLE OF CONTENTS

<b>SECTION A</b>	<b>SOURCE SUMMARY</b> .....	5
A.1	General Information [326 IAC 2-8-3(b)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]	
A.3	Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(l)]	
A.4	FESOP Applicability [326 IAC 2-8-2]	
<b>SECTION B</b>	<b>GENERAL CONDITIONS</b> .....	7
B.1	Definitions [326 IAC 2-8-1]	
B.2	Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-8-6]	
B.5	Severability [326 IAC 2-8-4(4)]	
B.6	Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.7	Duty to Provide Information [326 IAC 2-8-4(5)(E)]	
B.8	Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]	
B.9	Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.10	Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.11	Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]	
B.12	Emergency Provisions [326 IAC 2-8-12]	
B.13	Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.14	Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]	
B.15	Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]	
B.16	Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]	
B.17	Permit Renewal [326 IAC 2-8-3(h)]	
B.18	Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]	
B.19	Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]	
B.20	Source Modification Requirement [326 IAC 2-8-11.1]	
B.21	Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]	
B.22	Transfer of Ownership or Operational Control [326 IAC 2-8-10]	
B.23	Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]	
B.24	Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]	
<b>SECTION C</b>	<b>SOURCE OPERATION CONDITIONS</b> .....	16
	<b>Emission Limitations and Standards [326 IAC 2-8-4(1)]</b>	
C.1	Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2	Overall Source Limit [326 IAC 2-8]	
C.3	Opacity [326 IAC 5-1]	
C.4	Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5	Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.6	Fugitive Dust Emissions [326 IAC 6-4]	
C.7	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
	<b>Testing Requirements [326 IAC 2-8-4(3)]</b>	
C.8	Performance Testing [326 IAC 3-6]	
	<b>Compliance Requirements [326 IAC 2-1.1-11]</b>	
C.9	Compliance Requirements [326 IAC 2-1.1-11]	
	<b>Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]</b>	

- C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]
- C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]**

- C.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]
- C.13 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]
- C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

- C.15 General Record Keeping Requirements.[326 IAC 2-8-4(3)] [326 IAC 2-8-5]
- C.16 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

**Stratospheric Ozone Protection**

- C.17 Compliance with 40 CFR 82 and 326 IAC 22-1

**SECTION D.1 FACILITY OPERATION CONDITIONS: Chromium Anodizing ..... 22**

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.1.1 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4]**

- D.1.2 General Provisions Relating to NESHAP Subpart N [326 IAC 20-1] [40 CFR Part 63, Subpart A]
- D.1.3 NESHAP Subpart N Requirements [40 CFR Part 63, Subpart N] [326 IAC 20-8]
- D.1.4 One Time Deadlines Relating to NESHAP Subpart N

**SECTION D.2 FACILITY OPERATION CONDITIONS: Surface Coating and Degreasing..... 39**

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.2.1 FESOP Limit [326 IAC 2-8-4] [40 CFR 63, Subparts MMMM and DDDDD]
- D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]
- D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-6]
- D.2.4 Particulate [326 IAC 6-3-2(d)]
- D.2.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.2.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.2.7 Monitoring

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.2.8 Record Keeping Requirements
- D.2.9 Reporting Requirements

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4]**

- D.2.10 General Provisions Relating to NESHAP Subpart T [326 IAC 20-1] [40 CFR Part 63, Subpart A]
- D.2.11 NESHAP Subpart T Requirements [40 CFR Part 63, Subpart N] [326 IAC 20-6]
- D.2.12 One Time Deadlines Relating to NESHAP Subpart T

<b>SECTION D.3 FACILITY OPERATION CONDITIONS: Blasting</b> .....	56
<b>Emission Limitations and Standards [326 IAC 2-8-4(1)]</b>	
D.3.1 Particulate [326 IAC 6-3-2]	
<b>Compliance Determination Requirements</b>	
D.3.2 Particulate Control	
<b>SECTION D.4 FACILITY OPERATION CONDITIONS: Insignificant Activity</b> .....	57
<b>Emission Limitations and Standards [326 IAC 2-8-4(1)]</b>	
D.4.1 Particulate [326 IAC 6-2-3]	
<b>Certification Form</b> .....	58
<b>Emergency Occurrence Form</b> .....	59
<b>FESOP Usage Report</b> .....	61
<b>Quarterly Report Forms</b> .....	62
<b>Quarterly Deviation and Compliance Monitoring Report Form</b> .....	64

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary a chromium anodizing and surface coating source.

Authorized Individual:	Vice President
Source Address:	512 South Merrifield Avenue, Mishawaka, IN 46544
Mailing Address:	512 South Merrifield Avenue, Mishawaka, IN 46544
General Source Phone Number:	(574)259-5491
SIC Code:	3471 and 3479
County Location:	St. Joseph
Source Location Status:	Nonattainment for ozone based on the 8-hour standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) chromium anodizing tank, identified as EU-Bell Chrome 1, installed in 1965, exhausting to Stack BAVSX, capacity: 1.1628 pounds of aluminum parts per hour. Under NESHAP Subpart N, this is an existing chromium anodizing source using a wetting agent.
- (b) One (1) chromium anodizing tank, identified as EU-Bell Chrome 2, installed in 1998, used as an alternate to EU-Bell Chrome 1 for parts that do not fit in EU-Bell Chrome 1, and using the anodizing bath from EU-Bell Chrome 1, exhausting to Stack BAVSX, capacity: 1.1628 pounds of aluminum parts per hour. Under NESHAP Subpart N, this is a new chromium anodizing source using a wetting agent.
- (c) One (1) vapor degreaser, identified as EU-Vapor Deg, installed in 1965, exhausting to Stack BOX, capacity: 100 pounds of aluminum parts per hour. Under NESHAP Subpart T, this is a batch vapor degreaser with a solvent/air interface area greater than 1.21 square meters.
- (d) Surface coating activities consisting of the following:
  - (1) One (1) spray paint gun, identified as EU-SG1, installed in 1975, using air atomization spray technology and dry filters for overspray control, exhausting to Stack SSBX, capacity: 1.874 aluminum parts per hour.
  - (2) One (1) spray paint gun, identified as EU-SG2, installed in 1975, using air atomization spray technology and dry filters for overspray control, exhausting to Stack LSBX, capacity: 28.7292 pounds of aluminum parts per hour.
  - (3) One (1) small electric paint curing oven bank, consisting of three (3) miniature ovens, identified as EU-SMOVEN, installed in 1965, exhausting to stack S, capacity: 6.652 pounds of aluminum parts per hour.

- (4) One (1) large electric paint curing oven, identified as EU-LGOVEN, installed in 1965, exhausting to Stack T, capacity: 23.863 aluminum parts per hour.
- (e) One (1) vapor blast unit, identified as EU-Vapor Blast, installed in 1965, equipped with a cyclonically assisted dry filter, exhausting to Stack LM, capacity: 1.25 aluminum parts (less than 100 pounds of parts) per hour.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million British thermal units per hour, including one (1) boiler with a heat input capacity of 3.2 million British thermal units per hour. [326 IAC 6-2-3]
- (b) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons, including one (1) 315-gallon trichloroethylene storage tank.
- (c) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (d) A laboratory as defined in 326 IAC 2-7-1(21)(D).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-8-1]**

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### **B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- (a) This permit, 141-20031-00167, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

### **B.3 Term of Conditions [326 IAC 2-1.1-9.5]**

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.4 Enforceability [326 IAC 2-8-6]**

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### **B.5 Severability [326 IAC 2-8-4(4)]**

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### **B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]**

This permit does not convey any property rights of any sort or any exclusive privilege.

### **B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]**

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

### **B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]**

- (a) Where specifically designated by this permit or required by an applicable requirement, any

application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) an "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each

facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and Northern Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;  
  
Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or  
Telephone Number: 317-233-0178 (ask for Compliance Section)  
Facsimile Number: 317-233-6865  
Northern Regional Office phone: (574) 245-4870; fax: (574) 245-4877
  - (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

**B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to 141-20031-00167 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

**B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326

IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request.  
[326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]

The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.20 Source Modification Requirement [326 IAC 2-8-11.1]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

**B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue

Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

#### C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) and 326 IAC 2-3 (Emission Offset) not applicable;

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred and fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or

fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]**

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

**C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]**

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

**C.6 Fugitive Dust Emissions [326 IAC 6-4]**

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

**C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project

supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

#### **Testing Requirements [326 IAC 2-8-4(3)]**

##### **C.8 Performance Testing [326 IAC 3-6]**

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### **Compliance Requirements [326 IAC 2-1.1-11]**

##### **C.9 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the

commissioner or the U.S. EPA.

### **Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

#### **C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]**

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

#### **C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

### **Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

#### **C.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]**

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

#### **C.13 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]**

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- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

**C.15 General Record Keeping Requirements.[326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

**C.16 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

**Stratospheric Ozone Protection**

**C.17 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description: Chromium Anodizing

- (a) One (1) chromium anodizing tank, identified as EU-Bell Chrome 1, installed in 1965, exhausting to Stack BAVSX, capacity: 1.1628 pounds of aluminum parts per hour. Under NESHAP Subpart N, this is an existing chromium anodizing source using a wetting agent.
- (b) One (1) chromium anodizing tank, identified as EU-Bell Chrome 2, installed in 1998, used as an alternate to EU-Bell Chrome 1 for parts that do not fit in EU-Bell Chrome 1, and using the anodizing bath from EU-Bell Chrome 1, exhausting to Stack BAVSX, capacity: 1.1628 pounds of aluminum parts per hour. Under NESHAP Subpart N, this is a new chromium anodizing source using a wetting agent.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

### National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4]

#### D.1.2 General Provisions Relating to NESHAP Subpart N [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.340(b), the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, Table 1 of 40 CFR Part 63, Subpart N in accordance with schedule in 40 CFR 63 Subpart N.

#### D.1.3 NESHAP Subpart N Requirements [40 CFR Part 63, Subpart N] [326 IAC 20-8]

Pursuant to CFR Part 63, Subpart N, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart N, for the two (2) chromium anodizing tanks, identified as EU-Bell Chrome 1 and EU-Bell Chrome 2, as specified as follows.

#### **§ 63.340 Applicability and designation of sources.**

(a) The affected source to which the provisions of this subpart apply is each chromium electroplating or chromium anodizing tank at facilities performing hard chromium electroplating, decorative chromium electroplating, or chromium anodizing.

(b) Owners or operators of affected sources subject to the provisions of this subpart must also comply with the requirements of subpart A of this part, according to the applicability of subpart A of this part to such sources, as identified in Table 1 of this subpart.

(e) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

#### **§ 63.341 Definitions and nomenclature.**

(a) *Definitions.* Terms used in this subpart are defined in the Act, in subpart A of this part, or in this section. For the purposes of subpart N of this part, if the same term is defined in subpart A of this part and in this section, it shall have the meaning given in this section.

*Add-on air pollution control device* means equipment installed in the ventilation system of chromium electroplating and anodizing tanks for the purposes of collecting and containing chromium emissions from the tank(s).

*Air pollution control technique* means any method, such as an add-on air pollution control device or a chemical fume suppressant, that is used to reduce chromium emissions from chromium electroplating and chromium anodizing tanks.

*Base metal* means the metal or metal alloy that comprises the workpiece.

*Bath component* means the trade or brand name of each component(s) in trivalent chromium plating baths. For trivalent chromium baths, the bath composition is proprietary in most cases. Therefore, the trade or brand name for each component(s) can be used; however, the chemical name of the wetting agent contained in that component must be identified.

*Chemical fume suppressant* means any chemical agent that reduces or suppresses fumes or mists at the surface of an electroplating or anodizing bath; another term for fume suppressant is mist suppressant.

*Chromic acid* means the common name for chromium anhydride ( $\text{CrO}_3$ ).

*Chromium anodizing* means the electrolytic process by which an oxide layer is produced on the surface of a base metal for functional purposes (e.g., corrosion resistance or electrical insulation) using a chromic acid solution. In chromium anodizing, the part to be anodized acts as the anode in the electrical circuit, and the chromic acid solution, with a concentration typically ranging from 50 to 100 grams per liter (g/L), serves as the electrolyte.

*Chromium anodizing tank* means the receptacle or container along with the following accompanying internal and external components needed for chromium anodizing: rectifiers fitted with controls to allow for voltage adjustments, heat exchanger equipment, circulation pumps, and air agitation systems.

*Chromium electroplating tank* means the receptacle or container along with the following internal and external components needed for chromium electroplating: Rectifiers, anodes, heat exchanger equipment, circulation pumps, and air agitation systems.

*Composite mesh-pad system* means an add-on air pollution control device typically consisting of several mesh-pad stages. The purpose of the first stage is to remove large particles. Smaller particles are removed in the second stage, which consists of the composite mesh pad. A final stage may remove any reentrained particles not collected by the composite mesh pad.

*Decorative chromium electroplating* means the process by which a thin layer of chromium (typically 0.003 to 2.5 microns) is electrodeposited on a base metal, plastic, or undercoating to provide a bright surface with wear and tarnish resistance. In this process, the part(s) serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Typical current density applied during this process ranges from 540 to 2,400 Amperes per square meter ( $\text{A/m}^2$ ) for total plating times ranging between 0.5 to 5 minutes.

*Electroplating or anodizing bath* means the electrolytic solution used as the conducting medium in which the flow of current is accompanied by movement of metal ions for the purposes of electroplating metal out of the solution onto a workpiece or for oxidizing the base material.

*Emission limitation* means, for the purposes of this subpart, the concentration of total chromium allowed to be emitted expressed in milligrams per dry standard cubic meter (mg/dscm), or the allowable surface tension expressed in dynes per centimeter (dynes/cm).

*Enclosed hard chromium electroplating tank* means a chromium electroplating tank that is equipped with an enclosing hood and ventilated at half the rate or less that of an open surface tank of the same surface area.

*Facility* means the major or area source at which chromium electroplating or chromium anodizing is performed.

*Fiber-bed mist eliminator* means an add-on air pollution control device that removes contaminants from a gas stream through the mechanisms of inertial impaction and Brownian diffusion. These devices are typically installed downstream of another control device, which serves to prevent plugging, and consist of one or more fiber beds. Each bed consists of a hollow cylinder formed from two concentric screens; the fiber between the screens may be fabricated from glass, ceramic plastic, or metal.

*Foam blanket* means the type of chemical fume suppressant that generates a layer of foam across the surface of a solution when current is applied to that solution.

*Fresh water* means water, such as tap water, that has not been previously used in a process operation or, if the water has been recycled from a process operation, it has been treated and meets the effluent guidelines for chromium wastewater.

*Hard chromium electroplating* or industrial chromium electroplating means a process by which a thick layer of chromium (typically 1.3 to 760 microns) is electrodeposited on a base material to provide a surface with functional properties such as wear resistance, a low coefficient of friction, hardness, and corrosion resistance. In this process, the part serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Hard chromium electroplating process is performed at current densities typically ranging from 1,600 to 6,500 A/m<sup>2</sup> for total plating times ranging from 20 minutes to 36 hours depending upon the desired plate thickness.

*Hexavalent chromium* means the form of chromium in a valence state of +6.

*Large, hard chromium electroplating facility* means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity greater than or equal to 60 million ampere-hours per year (amp-hr/yr).

*Maximum cumulative potential rectifier capacity* means the summation of the total installed rectifier capacity associated with the hard chromium electroplating tanks at a facility, expressed in amperes, multiplied by the maximum potential operating schedule of 8,400 hours per year and 0.7, which assumes that electrodes are energized 70 percent of the total operating time. The maximum potential operating schedule is based on operating 24 hours per day, 7 days per week, 50 weeks per year.

*Open surface hard chromium electroplating tank* means a chromium electroplating tank that is ventilated at a rate consistent with good ventilation practices for open tanks.

*Operating parameter value* means a minimum or maximum value established for a control device or process parameter which, if achieved by itself or in combination with one or more other operating parameter values, determines that an owner or operator is in continual compliance with the applicable emission limitation or standard.

*Packed-bed scrubber* means an add-on air pollution control device consisting of a single or double packed bed that contains packing media on which the chromic acid droplets impinge. The packed-bed section of the scrubber is followed by a mist eliminator to remove any water entrained from the packed-bed section.

*Research or laboratory operation* means an operation whose primary purpose is for research and development of new processes and products, that is conducted under the close supervision of

technically trained personnel, and that is not involved in the manufacture of products for commercial sale in commerce, except in a de minimis manner.

*Small, hard chromium electroplating facility* means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity less than 60 million amp-hr/yr.

*Stalagmometer* means an instrument used to measure the surface tension of a solution by determining the mass of a drop of liquid by weighing a known number of drops or by counting the number of drops obtained from a given volume of liquid.

*Surface tension* means the property, due to molecular forces, that exists in the surface film of all liquids and tends to prevent liquid from spreading.

*Tank operation* means the time in which current and/or voltage is being applied to a chromium electroplating tank or a chromium anodizing tank.

*Tensiometer* means an instrument used to measure the surface tension of a solution by determining the amount of force needed to pull a ring from the liquid surface. The amount of force is proportional to the surface tension.

*Trivalent chromium* means the form of chromium in a valence state of +3.

*Trivalent chromium process* means the process used for electrodeposition of a thin layer of chromium onto a base material using a trivalent chromium solution instead of a chromic acid solution.

*Wetting agent* means the type of chemical fume suppressant that reduces the surface tension of a liquid.

(b) *Nomenclature*. The nomenclature used in this subpart has the following meaning:

(1) AMR=the allowable mass emission rate from each type of affected source subject to the same emission limitation in milligrams per hour (mg/hr).

(2)  $AMR_{sys}$ =the allowable mass emission rate from affected sources controlled by an add-on air pollution control device controlling emissions from multiple sources in mg/hr.

(3) EL=the applicable emission limitation from §63.342 in milligrams per dry standard cubic meter (mg/dscm).

(4)  $IA_{total}$ =the sum of all inlet duct areas from both affected and nonaffected sources in meters squared.

(5)  $IDA_i$ =the total inlet area for all ducts associated with affected sources in meters squared.

(6)  $IDA_{i,a}$ =the total inlet duct area for all ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in meters squared.

(7) VR=the total of ventilation rates for each type of affected source subject to the same emission limitation in dry standard cubic meters per minute (dscm/min).

(8)  $VR_{inlet}$ =the total ventilation rate from all inlet ducts associated with affected sources in dscm/min.

(9)  $VR_{inlet,a}$ =the total ventilation rate from all inlet ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in dscm/min.

(10)  $VR_{tot}$ =the average total ventilation rate for the three test runs as determined at the outlet by means of the Method 306 in appendix A of this part testing in dscm/min.

**§ 63.342 Standards.**

(a) Each owner or operator of an affected source subject to the provisions of this subpart shall comply with these requirements on and after the compliance dates specified in §63.343(a). All affected sources are regulated by applying maximum achievable control technology.

(b) *Applicability of emission limitations.* (1) The emission limitations in this section apply during tank operation as defined in §63.341, and during periods of startup and shutdown as these are routine occurrences for affected sources subject to this subpart. The emission limitations do not apply during periods of malfunction, but the work practice standards that address operation and maintenance and that are required by paragraph (f) of this section must be followed during malfunctions.

(d) *Standards for decorative chromium electroplating tanks using a chromic acid bath and chromium anodizing tanks.* During tank operation, each owner or operator of an existing, new, or reconstructed affected source shall control chromium emissions discharged to the atmosphere from that affected source by either:

(1) Not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.01 mg/dscm ( $4.4 \times 10^{-6}$  gr/dscf); or

(2) If a chemical fume suppressant containing a wetting agent is used, by not allowing the surface tension of the electroplating or anodizing bath contained within the affected source to exceed 45 dynes/cm ( $3.1 \times 10^{-3}$  lb<sub>f</sub>/ft) as measured by a stalagmometer or 35 dynes/cm ( $2.4 \times 10^{-3}$  lb<sub>f</sub>/ft) as measured by a tensiometer at any time during operation of the tank.

(f) *Operation and maintenance practices.* All owners or operators subject to the standards in paragraphs (c) and (d) of this section are subject to these operation and maintenance practices.

(1)(i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices.

(ii) Malfunctions shall be corrected as soon as practicable after their occurrence.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

(2)(i) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source.

(ii) Based on the results of a determination made under paragraph (f)(2)(i) of this section, the Administrator may require that an owner or operator of an affected source make changes to the operation and maintenance plan required by paragraph (f)(3) of this section for that source. Revisions may be required if the Administrator finds that the plan:

(A) Does not address a malfunction that has occurred;

(B) Fails to provide for the proper operation of the affected source, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or

(C) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

(3) *Operation and maintenance plan.* (i) The owner or operator of an affected source subject to paragraph (f) of this section shall prepare an operation and maintenance plan no later than the compliance date, except for hard chromium electroplaters and the chromium anodizing operations in California which have until January 25, 1998. The plan shall be incorporated by reference into the source's title V permit, if and when a title V permit is required. The plan shall include the following elements:

(A) The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emission limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;

(B) For sources using an add-on control device or monitoring equipment to comply with this subpart, the plan shall incorporate the operation and maintenance practices for that device or monitoring equipment, as identified in Table 1 of this section, if the specific equipment used is identified in Table 1 of this section;

(C) If the specific equipment used is not identified in Table 1 of this section, the plan shall incorporate proposed operation and maintenance practices. These proposed operation and maintenance practices shall be submitted for approval as part of the submittal required under §63.343(d);

(D) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and

(E) The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.

(ii) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.

(iii) Recordkeeping associated with the operation and maintenance plan is identified in §63.346(b). Reporting associated with the operation and maintenance plan is identified in §63.347 (g) and (h) and paragraph (f)(3)(iv) of this section.

(iv) If actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by paragraph (f)(3)(i) of this section, the owner or operator shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator.

(v) The owner or operator shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the source is no longer subject to the provisions of this subpart. In addition, if the operation and maintenance plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Administrator for a period of 5 years after each revision to the plan.

(vi) To satisfy the requirements of paragraph (f)(3) of this section, the owner or operator may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans, provided the alternative plans meet the requirements of this section.

(g) The standards in this section that apply to chromic acid baths shall not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent.

Table 1 to § 63.342\_Summary of Operation and Maintenance Practices

Monitoring Equipment		
Pitot tube.....	Backflush with water, or remove from the duct and rinse with fresh water. Replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained. Check pitot tube ends for damage. Replace pitot tube if cracked or fatigued.	1/quarter.
Stalagmometer.....	Follow manufacturers recommendations.	

**§ 63.343 Compliance provisions.**

(a) *Compliance dates.* (1) The owner or operator of an existing affected source shall comply with the emission limitations in §63.342 as follows:

(ii) No later than 2 years after January 25, 1995, if the affected source is a hard chromium electroplating tank or a chromium anodizing tank.

(2) The owner or operator of a new or reconstructed affected source that has an initial startup after January 25, 1995, shall comply immediately upon startup of the source. The owner or operator of a new or reconstructed affected source that has an initial startup after December 16, 1993 but before January 25, 1995, shall follow the compliance schedule of §63.6(b)(1).

(b) *Methods to demonstrate initial compliance.*

(2) If the owner or operator of an affected source meets all of the following criteria, an initial performance test is not required to be conducted under this subpart:

(i) The affected source is a hard chromium electroplating tank, a decorative chromium electroplating tank or a chromium anodizing tank; and

(ii) A wetting agent is used in the plating or anodizing bath to inhibit chromium emissions from the affected source; and

(iii) The owner or operator complies with the applicable surface tension limit of §63.342(c)(1)(iii), (c)(2)(iii), or (d)(2) as demonstrated through the continuous compliance monitoring required by paragraph (c)(5)(ii) of this section.

(c) *Monitoring to demonstrate continuous compliance.*

(5) *Wetting agent-type or combination wetting agent-type/foam blanket fume suppressants.* (i) During the initial performance test, the owner or operator of an affected source complying with the emission limitations in §63.342 through the use of a wetting agent in the electroplating or anodizing bath shall determine the outlet chromium concentration using the procedures in §63.344(c). The owner or operator shall establish as the site-specific operating parameter the surface tension of the bath using

Method 306B, appendix A of this part, setting the maximum value that corresponds to compliance with the applicable emission limitation. In lieu of establishing the maximum surface tension during the performance test, the owner or operator may accept 45 dynes/cm as measured by a stalagmometer or 35 dynes/cm as measured by a tensiometer as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. However, the owner or operator is exempt from conducting a performance test only if the criteria of paragraph (b)(2) of this section are met.

(ii) On and after the date on which the initial performance test is required to be completed under §63.7, except for hard chromium electroplaters and chromium anodizing operations in California, which have until January 25, 1998, the owner or operator of an affected source shall monitor the surface tension of the electroplating or anodizing bath. Operation of the affected source at a surface tension greater than the value established during the performance test, or greater than 45 dynes/cm as measured by a stalagmometer or 35 dynes/cm as measured by a tensiometer if the owner or operator is using this value in accordance with paragraph (c)(5)(i) of this section, shall constitute noncompliance with the standards. The surface tension shall be monitored according to the following schedule:

(A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.

(B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.

(C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (c)(5)(ii)(B) of this section. For example, if an owner or operator had been monitoring an affected source once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.

(iii) Once a bath solution is drained from the affected tank and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures of paragraphs (c)(5)(ii) (B) and (C) of this section.

**§ 63.344 Performance test requirements and test methods.**

(a) *Performance test requirements.* Performance tests shall be conducted using the test methods and procedures in this section and §63.7. Performance test results shall be documented in complete test reports that contain the information required by paragraphs (a)(1) through (a)(9) of this section. The test plan to be followed shall be made available to the Administrator prior to the testing, if requested.

(1) A brief process description;

(2) Sampling location description(s);

(3) A description of sampling and analytical procedures and any modifications to standard procedures;

(4) Test results;

(5) Quality assurance procedures and results;

- (6) Records of operating conditions during the test, preparation of standards, and calibration procedures;
- (7) Raw data sheets for field sampling and field and laboratory analyses;
- (8) Documentation of calculations; and
- (9) Any other information required by the test method.

(c) *Test methods.* Each owner or operator subject to the provisions of this subpart and required by §63.343(b) to conduct an initial performance test shall use the test methods identified in this section to demonstrate compliance with the standards in §63.342.

(1) Method 306 or Method 306A, "Determination of Chromium Emissions From Decorative and Hard Chromium Electroplating and Anodizing Operations," appendix A of this part shall be used to determine the chromium concentration from hard or decorative chromium electroplating tanks or chromium anodizing tanks. The sampling time and sample volume for each run of Methods 306 and 306A, appendix A of this part shall be at least 120 minutes and 1.70 dscm (60 dscf), respectively. Methods 306 and 306A, appendix A of this part allow the measurement of either total chromium or hexavalent chromium emissions. For the purposes of this standard, sources using chromic acid baths can demonstrate compliance with the emission limits of §63.342 by measuring either total chromium or hexavalent chromium. Hence, the hexavalent chromium concentration measured by these methods is equal to the total chromium concentration for the affected operations.

(2) The California Air Resources Board (CARB) Method 425 (which is available by contacting the California Air Resources Board, 1102 Q Street, Sacramento, California 95814) may be used to determine the chromium concentration from hard and decorative chromium electroplating tanks and chromium anodizing tanks if the following conditions are met:

(i) If a colorimetric analysis method is used, the sampling time and volume shall be sufficient to result in 33 to 66 micrograms of catch in the sampling train.

(ii) If Atomic Absorption Graphite Furnace (AAGF) or Ion Chromatography with a Post-column Reactor (ICPCR) analyses were used, the sampling time and volume should be sufficient to result in a sample catch that is 5 to 10 times the minimum detection limit of the analytical method (i.e., 1.0 microgram per liter of sample for AAGF and 0.5 microgram per liter of sample for ICPCR).

(iii) In the case of either paragraph (c)(2) (i) or (ii) of this section, a minimum of 3 separate runs must be conducted. The other requirements of §63.7 that apply to affected sources, as indicated in Table 1 of this subpart, must also be met.

(3) Method 306B, "Surface Tension Measurement and Recordkeeping for Tanks Used at Decorative Chromium Electroplating and Anodizing Facilities," appendix A of this part shall be used to measure the surface tension of electroplating and anodizing baths.

(4) Alternate test methods may also be used if the method has been validated using Method 301, appendix A of this part and if approved by the Administrator. Procedures for requesting and obtaining approval are contained in §63.7(f).

(d) *Establishing site-specific operating parameter values.* (1) Each owner or operator required to establish site-specific operating parameters shall follow the procedures in this section.

(2) All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected source are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.

(i) Specifications for differential pressure measurement devices used to measure velocity pressure shall be in accordance with section 2.2 of Method 2 (40 CFR part 60, appendix A).

(ii) Specification for differential pressure measurement devices used to measure pressure drop across a control system shall be in accordance with manufacturer's accuracy specifications.

(3) The surface tension of electroplating and anodizing baths shall be measured using Method 306B, "Surface Tension Measurement and Recordkeeping for Tanks used at Decorative Chromium Electroplating and Anodizing Facilities," appendix A of this part. This method should also be followed when wetting agent type or combination wetting agent/foam blanket type fume suppressants are used to control chromium emissions from a hard chromium electroplating tank and surface tension measurement is conducted to demonstrate continuous compliance.

**§ 63.345 Provisions for new and reconstructed sources.**

(a) This section identifies the preconstruction review requirements for new and reconstructed affected sources that are subject to, or become subject to, this subpart.

(b) *New or reconstructed affected sources.* The owner or operator of a new or reconstructed affected source is subject to §63.5(a), (b)(1), (b)(5), (b)(6), and (f)(1), as well as the provisions of this paragraph.

(1) After January 25, 1995, whether or not an approved permit program is effective in the State in which an affected source is (or would be) located, no person may construct a new affected source or reconstruct an affected source subject to this subpart, or reconstruct a source such that it becomes an affected source subject to this subpart, without submitting a notification of construction or reconstruction to the Administrator. The notification shall contain the information identified in paragraphs (b) (2) and (3) of this section, as appropriate.

(2) The notification of construction or reconstruction required under paragraph (b)(1) of this section shall include:

(i) The owner or operator's name, title, and address;

(ii) The address (i.e., physical location) or proposed address of the affected source if different from the owner's or operator's;

(iii) A notification of intention to construct a new affected source or make any physical or operational changes to an affected source that may meet or has been determined to meet the criteria for a reconstruction as defined in §63.2;

(iv) An identification of subpart N of this part as the basis for the notification;

(v) The expected commencement and completion dates of the construction or reconstruction;

(vi) The anticipated date of (initial) startup of the affected source;

(vii) The type of process operation to be performed (hard or decorative chromium electroplating, or chromium anodizing);

(viii) A description of the air pollution control technique to be used to control emissions from the affected source, such as preliminary design drawings and design capacity if an add-on air pollution control device is used; and

(ix) An estimate of emissions from the source based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission limits of this subpart. Calculations of emission estimates should be in sufficient detail to permit assessment of the validity of the calculations.

(4) The owner or operator of a new or reconstructed affected source that submits a notification in accordance with paragraphs (b) (1) through (3) of this section is not subject to approval by the Administrator. Construction or reconstruction is subject only to notification and can begin upon submission of a complete notification.

(5) *Submittal timeframes.* After January 25, 1995, whether or not an approved permit program is effective in the State in which an affected source is (or would be) located, an owner or operator of a new or reconstructed affected source shall submit the notification of construction or reconstruction required by paragraph (b)(1) of this section according to the following schedule:

(i) If construction or reconstruction commences after January 25, 1995, the notification shall be submitted as soon as practicable before the construction or reconstruction is planned to commence.

**§ 63.346 Recordkeeping requirements.**

(a) The owner or operator of each affected source subject to these standards shall fulfill all recordkeeping requirements outlined in this section and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A of this part as identified in Table 1 of this subpart.

(b) The owner or operator of an affected source subject to the provisions of this subpart shall maintain the following records for such source:

(1) Inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of §63.342(f) and Table 1 of §63.342 have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.

(2) Records of all maintenance performed on the affected source, the add-on air pollution control device, and monitoring equipment;

(3) Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment;

(4) Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;

(5) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by §63.342(f)(3);

(6) Test reports documenting results of all performance tests;

(7) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of §63.344(e);

(8) Records of monitoring data required by §63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected;

(9) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment;

(10) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control, or monitoring equipment;

- (11) The total process operating time of the affected source during the reporting period;
- (12) Records of the actual cumulative rectifier capacity of hard chromium electroplating tanks at a facility expended during each month of the reporting period, and the total capacity expended to date for a reporting period, if the owner or operator is using the actual cumulative rectifier capacity to determine facility size in accordance with §63.342(c)(2);
- (13) For sources using fume suppressants to comply with the standards, records of the date and time that fume suppressants are added to the electroplating or anodizing bath;
- (14) For sources complying with §63.342(e), records of the bath components purchased, with the wetting agent clearly identified as a bath constituent contained in one of the components;
- (15) Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements, if the source has been granted a waiver under §63.10(f); and
- (16) All documentation supporting the notifications and reports required by §63.9, §63.10, and §63.347.

(c) All records shall be maintained for a period of 5 years in accordance with §63.10(b)(1).

**§ 63.347 Reporting requirements.**

(a) The owner or operator of each affected source subject to these standards shall fulfill all reporting requirements outlined in this section and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A as identified in Table 1 of this subpart. These reports shall be made to the Administrator at the appropriate address as identified in §63.13 or to the delegated State authority.

(1) Reports required by subpart A of this part and this section may be sent by U.S. mail, fax, or by another courier.

(i) Submittals sent by U.S. mail shall be postmarked on or before the specified date.

(ii) Submittals sent by other methods shall be received by the Administrator on or before the specified date.

(2) If acceptable to both the Administrator and the owner or operator of an affected source, reports may be submitted on electronic media.

(b) The reporting requirements of this section apply to the owner or operator of an affected source when such source becomes subject to the provisions of this subpart.

(c) *Initial notifications.* (1) The owner or operator of an affected source that has an initial startup before January 25, 1995, shall notify the Administrator in writing that the source is subject to this subpart. The notification shall be submitted no later than 180 calendar days after January 25, 1995, and shall contain the following information:

(i) The name, title, and address of the owner or operator;

(ii) The address (i.e., physical location) of each affected source;

(iii) A statement that subpart N of this part is the basis for this notification;

(iv) Identification of the applicable emission limitation and compliance date for each affected source;

(v) A brief description of each affected source, including the type of process operation performed;

(vi) For sources performing hard chromium electroplating, the maximum potential cumulative potential rectifier capacity;

(vii) For sources performing hard chromium electroplating, a statement of whether the affected source(s) is located at a small or a large, hard chromium electroplating facility and whether this will be demonstrated through actual or maximum potential cumulative rectifier capacity;

(viii) For sources performing hard chromium electroplating, a statement of whether the owner or operator of an affected source(s) will limit the maximum potential cumulative rectifier capacity in accordance with §63.342(c)(2) such that the hard chromium electroplating facility is considered small; and

(ix) A statement of whether the affected source is located at a major source or an area source as defined in §63.2.

(2) The owner or operator of a new or reconstructed affected source that has an initial startup after January 25, 1995 shall submit an initial notification (in addition to the notification of construction or reconstruction required by §63.345(b) as follows:

(i) A notification of the date when construction or reconstruction was commenced, shall be submitted simultaneously with the notification of construction or reconstruction, if construction or reconstruction was commenced before January 25, 1995;

(ii) A notification of the date when construction or reconstruction was commenced, shall be submitted no later than 30 calendar days after such date, if construction or reconstruction was commenced after January 25, 1995; and

(iii) A notification of the actual date of startup of the source shall be submitted within 30 calendar days after such date.

(d) *Notification of performance test.* (1) The owner or operator of an affected source shall notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the test is scheduled to begin to allow the Administrator to have an observer present during the test. Observation of the performance test by the Administrator is optional.

(2) In the event the owner or operator is unable to conduct the performance test as scheduled, the provisions of §63.7(b)(2) apply.

(e) *Notification of compliance status.* (1) A notification of compliance status is required each time that an affected source becomes subject to the requirements of this subpart.

(2) If the State in which the source is located has not been delegated the authority to implement the rule, each time a notification of compliance status is required under this part, the owner or operator of an affected source shall submit to the Administrator a notification of compliance status, signed by the responsible official (as defined in §63.2) who shall certify its accuracy, attesting to whether the affected source has complied with this subpart. If the State has been delegated the authority, the notification of compliance status shall be submitted to the appropriate authority. The notification shall list for each affected source:

(i) The applicable emission limitation and the methods that were used to determine compliance with this limitation;

(ii) If a performance test is required by this subpart, the test report documenting the results of the performance test, which contains the elements required by §63.344(a), including measurements and calculations to support the special compliance provisions of §63.344(e) if these are being followed;

(iii) The type and quantity of hazardous air pollutants emitted by the source reported in mg/dscm or mg/hr if the source is using the special provisions of §63.344(e) to comply with the standards. (If the owner or operator is subject to the construction and reconstruction provisions of §63.345 and had previously submitted emission estimates, the owner or operator shall state that this report corrects or

verifies the previous estimate.) For sources not required to conduct a performance test in accordance with §63.343(b), the surface tension measurement may fulfill this requirement;

(iv) For each monitored parameter for which a compliant value is to be established under §63.343(c), the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

(v) The methods that will be used to determine continuous compliance, including a description of monitoring and reporting requirements, if methods differ from those identified in this subpart;

(vi) A description of the air pollution control technique for each emission point;

(vii) A statement that the owner or operator has completed and has on file the operation and maintenance plan as required by the work practice standards in §63.342(f);

(viii) If the owner or operator is determining facility size based on actual cumulative rectifier capacity in accordance with §63.342(c)(2), records to support that the facility is small. For existing sources, records from any 12-month period preceding the compliance date shall be used or a description of how operations will change to meet a small designation shall be provided. For new sources, records of projected rectifier capacity for the first 12-month period of tank operation shall be used;

(ix) A statement by the owner or operator of the affected source as to whether the source has complied with the provisions of this subpart.

(3) For sources required to conduct a performance test by §63.343(b), the notification of compliance status shall be submitted to the Administrator no later than 90 calendar days following completion of the compliance demonstration required by §63.7 and §63.343(b).

(4) For sources that are not required to complete a performance test in accordance with §63.343(b), the notification of compliance status shall be submitted to the Administrator no later than 30 days after the compliance date specified in §63.343(a), except the date on which sources in California shall monitor the surface tension of the anodizing bath is extended to January 25, 1998.

(f) *Reports of performance test results.* (1) If the State in which the source is located has not been delegated the authority to implement the rule, the owner or operator of an affected source shall report to the Administrator the results of any performance test conducted as required by §63.7 or §63.343(b). If the State has been delegated the authority, the owner or operator of an affected source should report performance test results to the appropriate authority.

(2) Reports of performance test results shall be submitted no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status required by paragraph (e) of this section.

(g) (3) *Contents of ongoing compliance status reports.* The owner or operator of an affected source for which compliance monitoring is required in accordance with §63.343(c) shall prepare a summary report to document the ongoing compliance status of the source. The report must contain the following information:

(i) The company name and address of the affected source;

(ii) An identification of the operating parameter that is monitored for compliance determination, as required by §63.343(c);

(iii) The relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status required by paragraph (e) of this section;

- (iv) The beginning and ending dates of the reporting period;
  - (v) A description of the type of process performed in the affected source;
  - (vi) The total operating time of the affected source during the reporting period;
  - (vii) If the affected source is a hard chromium electroplating tank and the owner or operator is limiting the maximum cumulative rectifier capacity in accordance with §63.342(c)(2), the actual cumulative rectifier capacity expended during the reporting period, on a month-by-month basis;
  - (viii) A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;
  - (ix) A certification by a responsible official, as defined in §63.2, that the work practice standards in §63.342(f) were followed in accordance with the operation and maintenance plan for the source;
  - (x) If the operation and maintenance plan required by §63.342(f)(3) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report(s) required by §63.342(f)(3)(iv) documenting that the operation and maintenance plan was not followed;
  - (xi) A description of any changes in monitoring, processes, or controls since the last reporting period;
  - (xii) The name, title, and signature of the responsible official who is certifying the accuracy of the report; and
  - (xiii) The date of the report.
- (h) *Ongoing compliance status reports for area sources.* The requirements of this paragraph do not alleviate affected area sources from complying with the requirements of State or Federal operating permit programs under 40 CFR part 71.
- (1) The owner or operator of an affected source that is located at an area source site shall prepare a summary report to document the ongoing compliance status of the affected source. The report shall contain the information identified in paragraph (g)(3) of this section, shall be completed annually and retained on site, and made available to the Administrator upon request. The report shall be completed annually except as provided in paragraph (h)(2) of this section.
- (2) *Reports of exceedances.* (i) If both of the following conditions are met, semiannual reports shall be prepared and submitted to the Administrator:
- (A) The total duration of excess emissions (as indicated by the monitoring data collected by the owner or operator of the affected source in accordance with §63.343(c)) is 1 percent or greater of the total operating time for the reporting period; and
  - (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.
- (ii) Once an owner or operator of an affected source reports an exceedance as defined in paragraph (h)(2)(i) of this section, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency under paragraph (h)(3) of this section is approved.
- (iii) The Administrator may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of

being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

(3) *Request to reduce frequency of ongoing compliance status reports.* (i) An owner or operator who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report onsite if all of the following conditions are met:

(A) For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected source is in compliance with the relevant emission limit;

(B) The owner or operator continues to comply with all applicable recordkeeping and monitoring requirements of subpart A of this part and this subpart; and

(C) The Administrator does not object to a reduced reporting frequency for the affected source, as provided in paragraphs (h)(3) (ii) and (iii) of this section.

(ii) The frequency of submitting ongoing compliance status reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change, and the Administrator does not object to the intended change. In deciding whether to approve a reduced reporting frequency, the Administrator may review information concerning the source's previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the source's compliance date, whichever is shorter. Records subject to review may include performance test results, monitoring data, and evaluations of an owner or operator's conformance with emission limitations and work practice standards. Such information may be used by the Administrator to make a judgement about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce reporting frequency, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(iii) As soon as the monitoring data required by §63.343(c) show that the source is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the owner shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the owner or operator may again request approval from the Administrator to reduce the reporting frequency as allowed by paragraph (h)(3) of this section.

**§ 63.348 Implementation and enforcement.**

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.340, 63.342(a) through (e) and (g), and 63.343(a).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

D.1.4 One Time Deadlines Relating to NESHAP Subpart N

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- (a) The Permittee was required to submit an initial notification for the one (1) chromium anodizing tank, identified as EU-Bell Chrome 1, by July 24, 1997.
- (b) The Permittee was required to submit an initial notification for the one (1) chromium anodizing tank, identified as EU-Bell Chrome 2, within one hundred and eighty (180) days after startup.
- (c) The Permittee was required to submit a notification of compliance status report for the one (1) chromium anodizing tank, identified as EU-Bell Chrome 1, by February 25, 1997
- (d) The Permittee was required to submit a notification of compliance status report for the one (1) chromium anodizing tank, identified as EU-Bell Chrome 2, within thirty (30) days after startup (in 1998).

## SECTION D.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Degreasing and Surface Coating

- (c) One (1) vapor degreaser, identified as EU-Vapor Deg, installed in 1965, exhausting to Stack BOX, capacity: 100 pounds of aluminum parts per hour. Under NESHAP Subpart T, this is a batch vapor degreaser with a solvent/air interface area greater than 1.21 square meters.
- (d) Surface coating activities consisting of the following:
  - (1) One (1) spray paint gun, identified as EU-SG1, installed in 1975, using air atomization spray technology and dry filters for overspray control, exhausting to Stack SSBX, capacity: 1.874 aluminum parts per hour.
  - (2) One (1) spray paint gun, identified as EU-SG2, installed in 1975, using air atomization spray technology and dry filters for overspray control, exhausting to Stack LSBX, capacity: 28.7292 pounds of aluminum parts per hour.
  - (3) One (1) small electric paint curing oven bank, consisting of three (3) miniature ovens, identified as EU-SMOVEN, installed in 1965, exhausting to stack S, capacity: 6.652 pounds of aluminum parts per hour.
  - (4) One (1) large electric paint curing oven, identified as EU-LGOVEN, installed in 1965, exhausting to Stack T, capacity: 23.863 aluminum parts per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.2.1 FESOP Limit [326 IAC 2-8-4] [40 CFR 63, Subparts MMMM and DDDDD]

- (a) The total usage of each individual HAP at the two (2) spray painting operations, identified as EU-SG1 and EU-SG2, and the one (1) vapor degreaser, identified as EU-Vapor Deg, shall be limited to 9.97 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This will limit the potential to emit of each individual HAP to less than ten (10) tons per year from the entire source. Therefore, this source is not subject to the requirements of 326 IAC 2-7 and 40 CFR 63, Subparts MMMM and DDDDD.
- (b) The total usage of any combination of HAPs shall be limited to 24.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This will limit the potential to emit of total HAPs to less than twenty-five (25) tons per year from the entire source. Therefore, this source is not subject to the requirements of 326 IAC 2-7 and 40 CFR 63, Subparts MMMM and DDDDD.

#### D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to F 141-7924-00167, issued on October 25, 2000, the total actual VOC usage (VOC delivered to the applicators), when coating metal parts at the two (2) spray painting operations, identified as EU-SG1 and EU-SG2, shall be limited to less than fifteen (15) pounds per day. This limits the actual VOC emissions from the metal coating operations to less than fifteen (15) pounds per day. Thus, the requirements of 326 IAC 8-2-9 are not applicable.

### D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-6]

Pursuant to 326 IAC 8-3-6, the Permittee shall comply with the following for the one (1) vapor degreaser, identified as EU-Vapor Deg:

- (a) Ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover that can be opened and closed easily without disturbing the vapor zone.
  - (2) Equip the degreaser with the following switches:
    - (A) A condenser flow switch and thermostat which shuts off sump heat if condenser coolant stops circulating or becomes too warm.
    - (B) A spray safety switch which shuts off spray pump if the vapor level drops more than ten (10) centimeters (four (4) inches).
  - (3) Equip the degreaser with a permanent, conspicuous label which lists the operating requirements outlined below in (b).
  - (4) Equip the degreaser with one (1) of the following control devices:
    - (A) A freeboard ratio of seventy-five hundredth (0.75) or greater and a powered cover if the degreaser opening is greater than one (1) square meter (ten and eight-tenths (10.8) square feet).
    - (B) A refrigerated chiller.
    - (C) An enclosed design in which the cover opens only when the article is actually entering or exiting the degreaser.
    - (D) A carbon adsorption system with ventilation which, with the cover open, achieves a ventilation rate of greater than or equal to fifteen (15) cubic meters per minute per square meter (fifty (50) cubic feet per minute per square foot) of air to vapor interface area and an average of less than twenty-five (25) parts per million of solvent is exhausted over one (1) complete adsorption cycle.
    - (E) Other systems of demonstrated equivalent or better control as those outlined in clauses (A) through (D). Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Ensure that the following operating requirements are met:
  - (1) Keep the cover closed at all times except when processing workloads through the degreaser.
  - (2) Minimize solvent carry out emissions by:
    - (A) racking articles to allow complete drainage;
    - (B) moving articles in and out of the degreaser at less than three and three-tenths (3.3) meters per minute (eleven (11) feet per minute);
    - (C) degreasing the workload in the vapor zone at least thirty (30) seconds or

- until the condensation ceases;
- (D) tipping out any pools of solvent on the cleaned articles before removal; and
  - (E) allowing articles to dry within the degreaser for at least fifteen (15) seconds or until visually dry.
- (3) Prohibit the entrance into the degreaser of porous or absorbent materials such as, but not limited to, cloth, leather, wood, or rope.
  - (4) Prohibit occupation of more than one-half ( $\frac{1}{2}$ ) of the degreaser's open top area with the workload.
  - (5) Prohibit the loading of the degreaser to the point where the vapor level would drop to more than ten (10) centimeters (four (4) inches) when the workload is removed.
  - (6) Prohibit solvent spraying above the vapor level.
  - (7) Repair solvent leaks immediately or shut down the degreaser if leaks cannot be repaired immediately.
  - (8) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste by solvent by weight could evaporate.
  - (9) Prohibit the exhaust ventilation rate from exceeding twenty (20) cubic meters per minute per square meter (sixty-five (65) cubic feet per minute per square foot) of degreaser open area unless a greater ventilation rate is necessary to meet Occupational Safety and Health Administration requirements.
  - (10) Prohibit the use of workplace fans near the degreaser opening.
  - (11) Prohibit visually detectable water in the solvent exiting the water separator.

**D.2.4 Particulate [326 IAC 6-3-2(d)]**

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Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating processes shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

**D.2.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

**Compliance Determination Requirements**

**D.2.6 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]**

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Compliance with the VOC and HAP usage limitations contained in Conditions D.2.1 and D.2.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

## **Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

### **D.2.7 Monitoring**

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- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (SSBX and LSBX) while one or more of the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
  
- (b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

## **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

### **D.2.8 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP usage limits and/or the HAP emission limits established in Condition D.2.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
  - (1) The HAP content of each coating material and solvent used.
  - (2) The amount of coating material and solvent less water used on monthly basis.
    - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
    - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
  - (3) The total single HAP and total combined HAPs usage for each month; and
  - (4) The weight of each individual HAP and total combined HAPs emitted for each compliance period.
  
- (b) To document compliance with Condition D.2.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
  - (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent less water used on daily basis.
    - (A) Records shall include purchase orders, invoices, and material safety data

sheets (MSDS) necessary to verify the type and amount used.

- (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
  - (3) The cleanup solvent usage for each day;
  - (4) The total VOC usage for each day; and
  - (5) The weight of VOCs emitted for each compliance period.
- (b) To document compliance with Condition D.2.7, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.9 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.1 and D.2.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4]**

##### D.2.10 General Provisions Relating to NESHAP Subpart T [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.460(b), the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, Appendix C of 40 CFR Part 63, Subpart T in accordance with the schedule in 40 CFR 63 Subpart T.

##### D.2.11 NESHAP Subpart T Requirements [40 CFR Part 63, Subpart N] [326 IAC 20-6]

Pursuant to CFR Part 63, Subpart T, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart T, for the one (1) vapor degreaser, identified as EU-Vapor Deg, as specified as follows:

#### ***§ 63.460 Applicability and designation of source.***

(a) The provisions of this subpart apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride (CAS No. 75–09–2), perchloroethylene (CAS No. 127–18–4), trichloroethylene (CAS No. 79–01–6), 1,1,1-trichloroethane (CAS No. 71–55–6), carbon tetrachloride (CAS No. 56–23–5) or chloroform (CAS No. 67–66–3), or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent. The concentration of these solvents may be determined using EPA test method 18, material safety data sheets, or engineering calculations. Wipe cleaning activities, such as using a rag containing halogenated solvent or a spray cleaner containing halogenated solvent are not covered under the provisions of this subpart.

(b) Except as noted in appendix C (General Provisions Applicability to Subpart T) of this subpart, the provisions of subpart A of this part (General Provisions) apply to owners or operators of any solvent cleaning machine meeting the applicability criteria of paragraph (a) of this section.

(d) Except as provided in paragraph (g) of this section, each solvent cleaning machine subject to this subpart that commenced construction or reconstruction on or before November 29, 1993 shall achieve compliance with the provisions of this subpart no later than December 2, 1997.

(e) In delegating implementation and enforcement authority to a State under section 112(d) of the Act, the authority contained in paragraph (f) of this section shall be retained by the Administrator and not transferred to a State.

(h) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

**§ 63.461 Definitions.**

Unless defined below, all terms used in this subpart are used as defined in the 1990 Clean Air Act, or in subpart A of 40 CFR part 63:

*Administrator* means the Administrator of the United States Environmental Protection Agency or his or her authorized representative (e.g., State that has been delegated the authority to implement the provisions of this part.)

*Air blanket* means the layer of air inside the solvent cleaning machine freeboard located above the solvent/air interface. The centerline of the air blanket is equidistant between the sides of the machine.

*Air knife system* means a device that directs forced air at high pressure, high volume, or a combination of high pressure and high volume, through a small opening directly at the surface of a continuous web part. The purpose of this system is to remove the solvent film from the surfaces of the continuous web part.

*Automated parts handling system* means a mechanical device that carries all parts and parts baskets at a controlled speed from the initial loading of soiled or wet parts through the removal of the cleaned or dried parts. Automated parts handling systems include, but are not limited to, hoists and conveyors.

*Batch cleaning machine* means a solvent cleaning machine in which individual parts or a set of parts move through the entire cleaning cycle before new parts are introduced into the solvent cleaning machine. An open-top vapor cleaning machine is a type of batch cleaning machine. A solvent cleaning machine, such as a ferris wheel or a cross-rod degreaser, that clean multiple batch loads simultaneously and are manually loaded are batch cleaning machines.

*Carbon adsorber* means a bed of activated carbon into which an air-solvent gas-vapor stream is routed and which adsorbs the solvent on the carbon.

*Clean liquid solvent* means fresh unused solvent, recycled solvent, or used solvent that has been cleaned of soils (e.g., skimmed of oils or sludge and strained of metal chips).

*Cleaning capacity* means, for a cleaning machine without a solvent/air interface, the maximum volume of parts that can be cleaned at one time. In most cases, the cleaning capacity is equal to the volume (length times width times height) of the cleaning chamber.

*Cold cleaning machine* means any device or piece of equipment that contains and/or uses liquid solvent, into which parts are placed to remove soils from the surfaces of the parts or to dry the parts. Cleaning machines that contain and use heated, nonboiling solvent to clean the parts are classified as cold cleaning machines.

*Combined squeegee and air-knife system* means a system consisting of a combination of a squeegee system and an air-knife system within a single enclosure.

*Consumption* means the amount of halogenated hazardous air pollutant solvent added to the solvent cleaning machine.

*Continuous web cleaning machine* means a solvent cleaning machine in which parts such as film, coils, wire, and metal strips are cleaned at speeds typically in excess of 11 feet per minute. Parts are generally uncoiled, cleaned such that the same part is simultaneously entering and exiting the solvent application area of the solvent cleaning machine, and then recoiled or cut. For the purposes of this subpart, all continuous web cleaning machines are considered to be a subset of in-line solvent cleaning machines.

*Cover* means a lid, top, or portal cover that shields the solvent cleaning machine openings from air disturbances when in place and is designed to be easily opened and closed without disturbing the vapor zone. Air disturbances include, but are not limited to, lip exhausts, ventilation fans, and general room drafts. Types of covers include, but are not limited to, sliding, biparting, and rolltop covers.

*Cross-rod solvent cleaning machine* means a batch solvent cleaning machine in which parts baskets are suspended from "cross-rods" as they are moved through the machine. In a cross-rod cleaning machine, parts are loaded semi-continuously, and enter and exit the machine from a single portal.

*Downtime mode* means the time period when a solvent cleaning machine is not cleaning parts and the sump heating coils, if present, are turned off.

*Dwell* means the technique of holding parts within the freeboard area but above the vapor zone of the solvent cleaning machine. Dwell occurs after cleaning to allow solvent to drain from the parts or parts baskets back into the solvent cleaning machine.

*Dwell time* means the required minimum length of time that a part must dwell, as determined by §63.465(d).

*Emissions* means halogenated hazardous air pollutant solvent consumed (i.e., halogenated hazardous air pollutant solvent added to the machine) minus the liquid halogenated hazardous air pollutant solvent removed from the machine and the halogenated hazardous air pollutant solvent removed from the machine in the solid waste.

*Existing* means any solvent cleaning machine the construction or reconstruction of which was commenced on or before November 29, 1993. A machine, the construction or reconstruction of which was commenced on or before November 29, 1993, but that did not meet the definition of a solvent cleaning machine on December 2, 1994, because it did not use halogenated HAP solvent liquid or vapor covered under this subpart to remove soils, becomes an existing source when it commences to use such liquid or vapor. A solvent cleaning machine moved within a contiguous facility or to another facility under the same ownership, constitutes an existing machine.

*Freeboard area* means; for a batch cleaning machine, the area within the solvent cleaning machine that extends from the solvent/air interface to the top of the solvent cleaning machine; for an in-line cleaning machine, it is the area within the solvent cleaning machine that extends from the solvent/air interface to the bottom of the entrance or exit opening, whichever is lower.

*Freeboard height* means; for a batch cleaning machine, the distance from the solvent/air interface, as measured during the idling mode, to the top of the cleaning machine; for an in-line cleaning machine, it is the distance from the solvent/air interface to the bottom of the entrance or exit opening, whichever is lower, as measured during the idling mode.

*Freeboard ratio* means the ratio of the solvent cleaning machine freeboard height to the smaller interior dimension (length, width, or diameter) of the solvent cleaning machine.

*Freeboard refrigeration device (also called a chiller)* means a set of secondary coils mounted in the freeboard area that carries a refrigerant or other chilled substance to provide a chilled air blanket above the solvent vapor. A primary condenser capable of meeting the requirements of §63.463(e)(2)(i) is defined as both a freeboard refrigeration device and a primary condenser for the purposes of these standards.

*Halogenated hazardous air pollutant solvent or halogenated HAP solvent* means methylene chloride (CAS No. 75–09–2), perchloroethylene (CAS No. 127–18–4), trichloroethylene (CAS No. 79–01–6), 1,1,1-trichloroethane (CAS No. 71–55–6), carbon tetrachloride (CAS No. 56–23–5), and chloroform (CAS No. 67–66–3).

*Hoist* means a mechanical device that carries the parts basket and the parts to be cleaned from the loading area into the solvent cleaning machine and to the unloading area at a controlled speed. A hoist may be operated by controls or may be programmed to cycle parts through the cleaning cycle automatically.

*Idling mode* means the time period when a solvent cleaning machine is not actively cleaning parts and the sump heating coils, if present, are turned on.

*Idling-mode cover* means any cover or solvent cleaning machine design that allows the cover to shield the cleaning machine openings during the idling mode. A cover that meets this definition can also be used as a working-mode cover if that definition is also met.

*Immersion cold cleaning machine* means a cold cleaning machine in which the parts are immersed in the solvent when being cleaned. A remote reservoir cold cleaning machine that is also an immersion cold cleaning machine is considered an immersion cold cleaning machine for purposes of this subpart.

*In-line cleaning machine or continuous cleaning machine* means a solvent cleaning machine that uses an automated parts handling system, typically a conveyor, to automatically provide a continuous supply of parts to be cleaned. These units are fully enclosed except for the conveyor inlet and exit portals. In-line cleaning machines can be either cold or vapor cleaning machines.

*Leak-proof coupling* means a threaded or other type of coupling that prevents solvents from leaking while filling or draining solvent to and from the solvent cleaning machine.

*Lip exhaust* means a device installed at the top of the opening of a solvent cleaning machine that draws in air and solvent vapor from the freeboard area and ducts the air and vapor away from the solvent cleaning area.

*Monthly reporting period* means any calendar month in which the owner or operator of a solvent cleaning machine is required to calculate and report the solvent emissions from each solvent cleaning machine.

*New* means any solvent cleaning machine the construction or reconstruction of which is commenced after November 29, 1993.

*Open-top vapor cleaning machine* means a batch solvent cleaning machine that has its upper surface open to the air and boils solvent to create solvent vapor used to clean and/or dry parts.

*Part* means any object that is cleaned in a solvent cleaning machine. Parts include, but are not limited to, discrete parts, assemblies, sets of parts, and parts cleaned in a continuous web cleaning machine (i.e., continuous sheets of metal, film).

*Primary condenser* means a series of circumferential cooling coils on a vapor cleaning machine through which a chilled substance is circulated or recirculated to provide continuous condensation of rising solvent vapors and, thereby, create a concentrated solvent vapor zone.

*Reduced room draft* means decreasing the flow or movement of air across the top of the freeboard area of the solvent cleaning machine to meet the specifications of §63.463(e)(2)(ii). Methods of achieving a reduced room draft include, but are not limited to, redirecting fans and/or air vents to not blow across the cleaning machine, moving the cleaning machine to a corner where there is less room draft, and constructing a partial or complete enclosure around the cleaning machine.

*Remote reservoir cold cleaning machine* means any device in which liquid solvent is pumped to a sink-like work area that drains solvent back into an enclosed container while parts are being cleaned, allowing no solvent to pool in the work area.

*Remote reservoir continuous web cleaning machine* means a continuous web cleaning machine in which there is no exposed solvent sump. In these units, the solvent is pumped from an enclosed chamber and is typically applied to the continuous web part through a nozzle or series of nozzles. The solvent then drains from the part and is collected and recycled through the machine, allowing no solvent to pool in the work or cleaning area.

*Soils* means contaminants that are removed from the parts being cleaned. Soils include, but are not limited to, grease, oils, waxes, metal chips, carbon deposits, fluxes, and tars.

*Solvent/air interface* means, for a vapor cleaning machine, the location of contact between the concentrated solvent vapor layer and the air. This location of contact is defined as the mid-line height of the primary condenser coils. For a cold cleaning machine, it is the location of contact between the liquid solvent and the air.

*Solvent/air interface area* means; for a vapor cleaning machine, the surface area of the solvent vapor zone that is exposed to the air; for an in-line cleaning machine, it is the total surface area of all the sumps; for a cold cleaning machine, it is the surface area of the liquid solvent that is exposed to the air.

*Solvent cleaning machine* means any device or piece of equipment that uses halogenated HAP solvent liquid or vapor to remove soils from the surfaces of materials. Types of solvent cleaning machines include, but are not limited to, batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machines. Buckets, pails, and beakers with capacities of 7.6 liters (2 gallons) or less are not considered solvent cleaning machines.

*Solvent vapor zone* means; for a vapor cleaning machine, the area that extends from the liquid solvent surface to the level that solvent vapor is condensed. This condensation level is defined as the midline height of the primary condenser coils.

*Squeegee system* means a system that uses a series of pliable surfaces to remove the solvent film from the surfaces of the continuous web part. These pliable surfaces, called squeegees, are typically made of rubber or plastic media, and need to be periodically replaced to ensure continued proper function.

*Sump* means the part of a solvent cleaning machine where the liquid solvent is located.

*Sump heater coils* means the heating system on a cleaning machine that uses steam, electricity, or hot water to heat or boil the liquid solvent.

*Superheated part technology* means a system that is part of the continuous web process that heats the continuous web part either directly or indirectly to a temperature above the boiling point of the cleaning solvent. This could include a process step, such as a tooling die that heats the part as it is processed, as long as the part remains superheated through the cleaning machine.

*Superheated vapor system* means a system that heats the solvent vapor, either passively or actively, to a temperature above the solvent's boiling point. Parts are held in the superheated vapor before exiting the machine to evaporate the liquid solvent on them. Hot vapor recycle is an example of a superheated vapor system.

*Vapor cleaning machine* means a batch or in-line solvent cleaning machine that boils liquid solvent generating solvent vapor that is used as a part of the cleaning or drying cycle.

*Water layer* means a layer of water that floats above the denser solvent and provides control of solvent emissions. In many cases, the solvent used in batch cold cleaning machines is sold containing the appropriate amount of water to create a water cover.

*Working mode* means the time period when the solvent cleaning machine is actively cleaning parts.

*Working-mode cover* means any cover or solvent cleaning machine design that allows the cover to shield the cleaning machine openings from outside air disturbances while parts are being cleaned in the cleaning machine. A cover that is used during the working mode is opened only during parts entry and removal. A cover that meets this definition can also be used as an idling-mode cover if that definition is also met.

### **§ 63.463 Batch vapor and in-line cleaning machine standards.**

(a) Except as provided in §63.464 for all cleaning machines, each owner or operator of a solvent cleaning machine subject to the provisions of this subpart shall ensure that each existing or new batch vapor or in-line solvent cleaning machine subject to the provisions of this subpart conforms to the design requirements specified in paragraphs (a)(1) through (7) of this section. The owner or operator of a continuous web cleaning machine shall comply with the requirements of paragraph (g) or (h) of this section, as appropriate, in lieu of complying with this paragraph.

(1) Each cleaning machine shall be designed or operated to meet the control equipment or technique requirements in paragraph (a)(1)(i) or (a)(1)(ii) of this section.

(i) An idling and downtime mode cover, as described in §63.463(d)(1)(i), that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, and other defects.

(ii) A reduced room draft as described in §63.463(e)(2)(ii).

(2) Each cleaning machine shall have a freeboard ratio of 0.75 or greater.

(3) Each cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts.

(4) Each vapor cleaning machine shall be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils. This requirement does not apply to a vapor cleaning machine that uses steam to heat the solvent.

(5) Each vapor cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.

(6) Each vapor cleaning machine shall have a primary condenser.

(7) Each cleaning machine that uses a lip exhaust shall be designed and operated to route all collected solvent vapors through a properly operated and maintained carbon adsorber that meets the requirements of paragraph (e)(2)(vii) of this section.

(b) Except as provided in §63.464, each owner or operator of an existing or new batch vapor cleaning machine shall comply with either paragraph (b)(1) or (b)(2) of this section.

(2) Each owner or operator of a batch vapor cleaning machine with a solvent/air interface area greater than 1.21 square meters (13 square feet) shall comply with the requirements specified in either paragraph (b)(2)(i) or (b)(2)(ii) of this section.

(i) Employ one of the control combinations listed in table 2 of this subpart or other equivalent methods of control as determined using the procedure in §63.469, equivalent methods of control.

Table 2\_Control Combinations for Batch Vapor Solvent Cleaning Machines  
With a Solvent/Air Interface Area Greater than 1.21 Square Meters (13  
Square Feet)

Option	Control combinations
4.....	Freeboard ratio of 1.0, reduced room draft, superheated vapor.

Note: Unlike most of the control techniques available for complying with this rule, carbon adsorbers are not considered to be a pollution prevention measure. Use of such units may impose additional cost and burden for a number of reasons. First, carbon adsorption units are generally more expensive than other controls listed in the options. Second, these units may present cross-media impacts such as effluent discharges if not properly operated and maintained, and spent carbon beds have to be disposed of as hazardous waste. When making decisions about what controls to install on halogenated solvent cleaning machines to meet the requirements of this rule, all of these factors should be weighed and pollution prevention measures are encouraged wherever possible.

(d) Except as provided in §63.464 for all cleaning machines, each owner or operator of an existing or new batch vapor or in-line solvent cleaning machine shall meet all of the following required work and operational practices specified in paragraphs (d)(1) through (12) of this section as applicable. The owner or operator of a continuous web cleaning machine shall comply with the requirements of paragraph (g) or (h) of this section, as appropriate, in lieu of complying with this paragraph.

(1) Control air disturbances across the cleaning machine opening(s) by incorporating the control equipment or techniques in paragraph (d)(1)(i) or (d)(1)(ii) of this section.

(i) Cover(s) to each solvent cleaning machine shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place.

(ii) A reduced room draft as described in §63.463(e)(2)(ii).

(2) The parts baskets or the parts being cleaned in an open-top batch vapor cleaning machine shall not occupy more than 50 percent of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 0.9 meters per minute (3 feet per minute) or less.

(3) Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine).

(4) Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved by the Administrator.

(5) Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped.

(6) During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.

(7) During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.

(8) When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.

(9) Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the Administrator's satisfaction to achieve the same or better results as those recommended by the manufacturer.

(10) Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning procedures in appendix A to this part if requested during an inspection by the Administrator.

(11) Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.

(12) Sponges, fabric, wood, and paper products shall not be cleaned.

(e) Each owner or operator of a solvent cleaning machine complying with paragraph (b), (c), (g), or (h) of this section shall comply with the requirements specified in paragraphs (e)(1) through (4) of this section.

(2) Determine during each monitoring period whether each control device used to comply with these standards meets the requirements specified in paragraphs (e)(2)(i) through (xi) of this section.

(ii) If a reduced room draft is used to comply with these standards, the owner or operator shall comply with the requirements specified in paragraphs (e)(2)(ii)(A) and (e)(2)(ii)(B) of this section.

(A) Ensure that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time as measured using the procedures in §63.466(d).

(B) Establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in §63.466(d).

(vi) If a superheated vapor system is used to comply with these standards, the owner or operator shall comply with the requirements specified in paragraphs (e)(2)(vi)(A) through (e)(2)(vi)(C) of this section.

(A) Ensure that the temperature of the solvent vapor at the center of the superheated vapor zone is at least 10 °F above the solvent's boiling point.

(B) Ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system is followed.

(C) Ensure that parts remain within the superheated vapor for at least the minimum proper dwell time.

**§ 63.466 Monitoring procedures.**

(a) Except as provided in paragraph (g) of this section, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment standards in §63.463(b)(1)(i), (b)(2)(i),

(c)(1)(i), (c)(2)(i), (g)(1), or (g)(2) shall conduct monitoring and record the results on a weekly basis for the control devices, as appropriate, specified in paragraphs (a)(1) through (5) of this section.

(2) If a superheated vapor system is used to comply with these standards, the owner or operator shall use a thermometer or thermocouple to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode.

(d) Except as provided in paragraph (g) of this section, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment standards in §63.463 (b)(1)(i), (b)(2)(i), (c)(1)(i), or (c)(2)(i) using a reduced room draft shall conduct monitoring and record the results as specified in paragraph(d)(1) or (d)(2) of this section.

(2) If an enclosure (full or partial) is used to achieve a reduced room draft, the owner or operator shall conduct an initial monitoring test and, thereafter, monthly monitoring tests of the windspeed within the enclosure using the procedure specified in paragraphs (d)(2)(i) and (d)(2)(ii) of this section and a monthly visual inspection of the enclosure to determine if it is free of cracks, holes and other defects.

(i) Determine the direction of the wind current in the enclosure by slowly rotating a velometer inside the entrance to the enclosure until the maximum speed is located.

(ii) Record the maximum wind speed.

(g) Each owner or operator using a control device listed in paragraphs (a) through (e) of this section can use alternative monitoring procedures approved by the Administrator.

#### **§ 63.467 Recordkeeping requirements.**

(a) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall maintain records in written or electronic form specified in paragraphs (a)(1) through (7) of this section for the lifetime of the machine.

(1) Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment.

(2) The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted.

(5) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of this subpart.

(b) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with §63.463 shall maintain records specified in paragraphs (b)(1) through (b)(4) of this section either in electronic or written form for a period of 5 years.

(1) The results of control device monitoring required under §63.466.

(2) Information on the actions taken to comply with §63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(3) Estimates of annual solvent consumption for each solvent cleaning machine.

**§ 63.468 Reporting requirements.**

(a) Each owner or operator of an existing solvent cleaning machine subject to the provisions of this subpart shall submit an initial notification report to the Administrator no later than August 29, 1995. This report shall include the information specified in paragraphs (a)(1) through (a)(6) of this section.

(1) The name and address of the owner or operator.

(2) The address (i.e., physical location) of the solvent cleaning machine(s).

(3) A brief description of each solvent cleaning machine including machine type (batch vapor, batch cold, vapor in-line or cold in-line), solvent/air interface area, and existing controls.

(4) The date of installation for each solvent cleaning machine or a letter certifying that the solvent cleaning machine was installed prior to, or after, November 29, 1993.

(5) The anticipated compliance approach for each solvent cleaning machine.

(6) An estimate of annual halogenated HAP solvent consumption for each solvent cleaning machine.

(b) Each owner or operator of a new solvent cleaning machine subject to the provisions of this subpart shall submit an initial notification report to the Administrator. New sources for which construction or reconstruction had commenced and initial startup had not occurred before December 2, 1994, shall submit this report as soon as practicable before startup but no later than January 31, 1995. New sources for which the construction or reconstruction commenced after December 2, 1994, shall submit this report as soon as practicable before the construction or reconstruction is planned to commence. This report shall include all of the information required in §63.5(d)(1) of subpart A (General Provisions), with the revisions and additions in paragraphs (b)(1) through (b)(3) of this section.

(1) The report shall include a brief description of each solvent cleaning machine including machine type (batch vapor, batch cold, vapor in-line, or cold-line), solvent/air interface area, and existing controls.

(2) The report shall include the anticipated compliance approach for each solvent cleaning machine.

(3) In lieu of §63.5(d)(1)(ii)(H) of subpart A of this part, the owner or operator must report an estimate of annual halogenated HAP solvent consumption for each solvent cleaning machine.

(c) Each owner or operator of a batch cold solvent cleaning machine subject to the provisions of this subpart shall submit a compliance report to the Administrator. For existing sources, this report shall be submitted to the Administrator no later than 150 days after the compliance date specified in §63.460(d). For new sources, this report shall be submitted to the Administrator no later than 150 days after startup or May 1, 1995, whichever is later. This report shall include the requirements specified in paragraphs (c)(1) through (c)(4) of this section.

(1) The name and address of the owner or operator.

(2) The address (i.e., physical location) of the solvent cleaning machine(s).

(3) A statement, signed by the owner or operator of the solvent cleaning machine, stating that the solvent cleaning machine for which the report is being submitted is in compliance with the provisions of this subpart.

(4) The compliance approach for each solvent cleaning machine.

(d) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall submit to the Administrator an initial statement of compliance for each solvent cleaning machine. For existing sources, this report shall be submitted to the Administrator no later than 150 days after the compliance date specified in §63.460(d). For new sources, this report shall be submitted to the Administrator no later than 150 days after startup or May 1, 1995, whichever is later. This statement shall include the requirements specified in paragraphs (d)(1) through (d)(6) of this section.

(1) The name and address of the owner or operator.

(2) The address (i.e., physical location) of the solvent cleaning machine(s).

(3) A list of the control equipment used to achieve compliance for each solvent cleaning machine.

(4) For each piece of control equipment required to be monitored, a list of the parameters that are monitored and the values of these parameters measured on or during the first month after the compliance date.

(5) Conditions to maintain the wind speed requirements of §63.463(e)(2)(ii), if applicable.

(6) Each owner or operator of a solvent cleaning machine complying with the idling emission limit standards of §63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), and (c)(2)(ii) shall submit a test report for tests of idling emissions meeting the specifications in Method 307 of appendix A to this subpart. This report shall comply with the requirements specified in paragraphs (d)(6)(i) through (d)(6)(iv) of this section.

(i) This test must be on the same specific model cleaner used at the source. The test can be done by the owner or operator of the affected machine or can be supplied by the vendor of that solvent cleaning machine or a third party.

(ii) This report must clearly state the monitoring parameters, monitoring frequency and the delineation of exceedances for each parameter.

(iii) If a solvent cleaning machine vendor or third party test report is used to demonstrate compliance, it shall include the following for the solvent cleaning machine tested: Name of person(s) or company that performed the test, model name, the date the solvent cleaning machine was tested, serial number, and a diagram of the solvent cleaning machine tested.

(iv) If a solvent cleaning machine vendor or third party test report is used, the owner or operator of the solvent cleaning machine shall comply with the requirements specified in either paragraphs (d)(6)(iv)(A) and (d)(6)(iv)(B) of this section.

(A) Submit a statement by the solvent cleaning machine vendor that the unit tested is the same as the unit the report is being submitted for.

(B) Demonstrate to the Administrator's satisfaction that the solvent emissions from the solvent cleaning machine for which the test report is being submitted are equal to or less than the solvent emissions from the solvent cleaning machine in the vendor test report.

(f) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the requirements specified in paragraphs (f)(1) through (f)(3) of this section.

(1) A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in §63.463(d)(10)."

(2) An estimate of solvent consumption for each solvent cleaning machine during the reporting period.

(3) The reports required under paragraphs (f) and (g) of this section can be combined into a single report for each facility.

(g) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.464 shall submit a solvent emission report every year. This solvent emission report shall contain the requirements specified in paragraphs (g)(1) through (g)(4) of this section.

(1) The size and type of each unit subject to this subpart (solvent/air interface area or cleaning capacity).

(2) The average monthly solvent consumption for the solvent cleaning machine in kilograms per month.

(3) The 3-month monthly rolling average solvent emission estimates calculated each month using the method as described in §63.465(c).

(4) The reports required under paragraphs (f) and (g) of this section can be combined into a single report for each facility.

(h) Each owner or operator of a batch vapor or in-line solvent cleaning machine shall submit an exceedance report to the Administrator semiannually except when, the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency under paragraph (i) of this section is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in paragraphs (h) (1) through (3) of this section.

(1) Information on the actions taken to comply with §63.463 (e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

(3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

(i) An owner or operator who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in paragraphs (i)(1) through (i)(3) of this section are met.

(1) The source has demonstrated a full year of compliance without an exceedance.

(2) The owner or operator continues to comply with all relevant recordkeeping and monitoring requirements specified subpart A (General Provisions) and in this subpart.

(3) The Administrator does not object to a reduced frequency of reporting for the affected source as provided in paragraph (e)(3)(iii) of subpart A (General Provisions).

#### **§ 63.470 Implementation and enforcement.**

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to

a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.460, 63.462(a) through (d), and 63.463 through 63.464 (except for the authorities in §63.463(d)(9)). Use the procedures in §63.469 to request the use of alternative equipment or procedures.

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

#### D.2.12 One Time Deadlines Relating to NESHAP Subpart T

- (a) An initial notification report for the batch vapor degreaser was submitted on August 10, 1995.
- (b) An initial statement of compliance for the batch vapor degreaser was submitted on October 27, 1998.

### SECTION D.3

### FACILITY OPERATION CONDITIONS

#### Facility Description [326 IAC 2-7-5(15)]: Blasting

- (e) One (1) vapor blast unit, identified as EU-Vapor Blast, installed in 1965, equipped with a cyclonically assisted dry filter, exhausting to Stack LM, capacity: 1.25 aluminum parts (less than 100 pounds of parts) per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

##### D.3.1 Particulate [326 IAC 6-3-2]

---

Pursuant to 326 IAC 6-3-2(e)(2), the particulate emission rate from the one (1) vapor blast unit (EU-Vapor Blast) shall not exceed 0.551 pound per hour, when operating at a process weight rate of less than one hundred (100) pounds per hour.

#### Compliance Determination Requirements

##### D.3.2 Particulate Control

---

Pursuant to F 141-7924-00167, issued on October 25, 2000, the cyclonically assisted dry filters for PM control shall be in operation and control emissions from the vapor blast unit at all times that the vapor blast unit is in operation.

## SECTION D.4

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Insignificant Activity

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million British thermal units per hour, including one (1) boiler with a heat input capacity of 3.2 million British thermal units per hour. [326 IAC 6-2-3]

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.4.1 Particulate [326 IAC 6-2-3]

---

Pursuant to 326 IAC 6-2-3(e) (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from the 3.2 million British thermal units per hour heat input boiler shall be limited to 0.6 pound per million British thermal units heat input.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Remote Controls, Inc.  
Source Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
Mailing Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP No.: F 141-20031-00167

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Remote Controls, Inc.  
Source Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
Mailing Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP No.: F 141-20031-00167

**This form consists of 2 pages**

**Page 1 of 2**

- |   |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and</li><li>• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16</li></ul> |
|---|

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Usage Report**  
(Submit Report Quarterly)

Source Name: Remote Controls, Inc.  
Source Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
Mailing Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP No.: F 141-20031-00167  
Facilities: Two (2) spray painting operations, identified as EU-SG1 and EU-SG2  
Parameter: VOC usage (VOC delivered to the applicators, minus the VOC recovered)  
Limit: Less than fifteen (15) pounds per day, total

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	VOC Usage (lbs)	Day	VOC Usage (lbs)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
Deviation has been reported on \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Remote Controls, Inc.  
Source Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
Mailing Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP No.: F 141-20031-00167  
Facilities: Two (2) spray painting operations, identified as EU-SG1 and EU-SG2, and the one (1) vapor degreaser, identified as EU-Vapor Deg  
Parameter: Individual HAP (trichloroethylene) Usage  
Limit: 9.97 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month

YEAR: \_\_\_\_\_

Month	Individual HAP Usage (tons)	Individual HAP Usage (tons)	Individual HAP Usage (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
Deviation has been reported on \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Remote Controls, Inc.  
Source Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
Mailing Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP No.: F 141-20031-00167  
Facilities: Two (2) spray painting operations, identified as EU-SG1 and EU-SG2, and the one (1) vapor degreaser, identified as EU-Vapor Deg  
Parameter: Total HAPs Usage  
Limit: 24.9 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month

YEAR: \_\_\_\_\_

Month	Total HAPs Usage (tons)	Total HAPs Usage (tons)	Total HAPs Usage (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
Deviation has been reported on \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Remote Controls, Inc.  
Source Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
Mailing Address: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP No.: F 141-20031-00167

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked <b>NO deviations occurred this reporting period</b>.</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit  
(FESOP) Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Remote Controls, Inc.</b>
<b>Source Location:</b>	<b>512 South Merrifield Avenue, Mishawaka, IN 46544</b>
<b>County:</b>	<b>St. Joseph</b>
<b>SIC Code:</b>	<b>3471 and 3479</b>
<b>Operation Permit No.:</b>	<b>F 141-7924-00167</b>
<b>Operation Permit Issuance Date:</b>	<b>October 25, 2000</b>
<b>Permit Renewal No.:</b>	<b>F 141-20031-00167</b>
<b>Permit Reviewer:</b>	<b>CarrieAnn Paukowits</b>

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Remote Controls, Inc. relating to the operation of a chromium anodizing and surface coating source.

**Permitted Emission Units and Pollution Control Equipment**

- (a) One (1) chromium anodizing tank, identified as EU-Bell Chrome 1, installed in 1965, exhausting to Stack BAVSX, capacity: 1.1628 pounds of aluminum parts per hour. Under NESHAP Subpart N, this is an existing chromium anodizing source using a wetting agent.
- (b) One (1) chromium anodizing tank, identified as EU-Bell Chrome 2, installed in 1998, used as an alternate to EU-Bell Chrome 1 for parts that do not fit in EU-Bell Chrome 1, and using the anodizing bath from EU-Bell Chrome 1, exhausting to Stack BAVSX, capacity: 1.1628 pounds of aluminum parts per hour. Under NESHAP Subpart N, this is a new chromium anodizing source using a wetting agent.
- (c) One (1) vapor degreaser, identified as EU-Vapor Deg, installed in 1965, exhausting to Stack BOX, capacity: 100 pounds of aluminum parts per hour. Under NESHAP Subpart T, this is a batch vapor degreaser with a solvent/air interface area greater than 1.21 square meters.
- (d) Surface coating activities consisting of the following:
  - (1) One (1) spray paint gun, identified as EU-SG1, installed in 1975, using air atomization spray technology and dry filters for overspray control, exhausting to Stack SSBX, capacity: 1.874 aluminum parts per hour.
  - (2) One (1) spray paint gun, identified as EU-SG2, installed in 1975, using air atomization spray technology and dry filters for overspray control, exhausting to Stack LSBX, capacity: 28.7292 pounds of aluminum parts per hour.
  - (3) One (1) small electric paint curing oven bank, consisting of three (3) miniature ovens, identified as EU-SMOVEN, installed in 1965, exhausting to stack S, capacity: 6.652 pounds of aluminum parts per hour.
  - (4) One (1) large electric paint curing oven, identified as EU-LGOVEN, installed in 1965, exhausting to Stack T, capacity: 23.863 aluminum parts per hour.
- (e) One (1) vapor blast unit, identified as EU-Vapor Blast, installed in 1965, equipped with a cyclonically assisted dry filter, exhausting to Stack LM, capacity: 1.25 aluminum parts (less than 100 pounds of parts) per hour.

### Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

### New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no proposed emission units during this review process.

### Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million British thermal units per hour, including one (1) boiler with a heat input capacity of 3.2 million British thermal units per hour. [326 IAC 6-2-3]
- (b) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons, including one (1) 315-gallon trichloroethylene storage tank.
- (c) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (d) A laboratory as defined in 326 IAC 2-7-1(21)(D).

### Existing Approvals

The source has been operating under the previous FESOP 141-7924-00167 issued on October 25, 2000.

All conditions from previous approvals were incorporated into this FESOP, except for the following:

- (a) Condition D.3.3: The PM from the two (2) spray paint guns shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Reason not incorporated: The 326 IAC 6-3 revisions that became effective on June 12, 2002, were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. The facilities at this source are subject to the requirements of the new version of the rule, and those requirements are incorporated into this permit. The two (2) spray paint guns are subject to the requirements of 326 IAC 6-3-2(d).

- (b) Condition D.2.1: The total source, including the vapor degreasing and the surface coating, shall use less than 10 tons per consecutive twelve month period of each

individual HAP and less than 25 tons per year of any combination of HAPs. This usage limit is required to limit the potential to emit of each individual HAP to less than 10 tons per year and the potential to emit of any combination of HAPs to less than 25 tons per year. Compliance with this limit makes 326 IAC 2-7 (Part 70) not applicable.

Reason revised: These emission limitations have not been revised. However, in order to account for unrestricted potential HAP emissions from chromium anodizing (0.0066 tons of chromium per year) and insignificant activities, including combustion and storage (0.025 tons of an individual HAP and 0.036 tons of total HAPs per year), separately, because it is not practical to keep records of HAP usage at those facilities, the usage limit has been revised to the following:

The usage of each individual HAP at the two (2) spray painting operations, identified as EU-SG1 and EU-SG2, and the One (1) vapor degreaser, identified as EU-Vapor Deg, shall be limited to 9.97 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month. The usage of any combination of HAPs shall be limited to 24.9 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 2-7, are not applicable.

#### **Enforcement Issue**

There are no enforcement actions pending.

#### **Recommendation**

The staff recommends to the Commissioner that the FESOP renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP renewal application for the purposes of this review was received on December 20, 2004. Additional information was received on May 9, 2006.

There was no notice of completeness letter mailed to the source.

#### **Emission Calculations**

See pages 1 through 6 of 6 of Appendix A of this document for detailed emissions calculations.

During the initial review for F 141-7924-00167 issued on October 25, 2000, chromium emissions from the chromium anodizing were calculated using AP-42, Table 12.20-2, as yielding 0.006 tons per year for the EU-Bell Chrome 1 anodizing tank, and 0.0006 tons per year for EU-Bell Chrome 2. Thus, based on AP-42, the unrestricted PM emissions are 0.013 tons per year from EU-Bell Chrome 1 and the 0.001 tons per year from EU-Bell Chrome 2.

#### **Unrestricted Potential Emissions**

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

<b>Pollutant</b>	<b>Unrestricted Potential Emissions (tons/yr)</b>
PM	34.7
PM <sub>10</sub>	34.8
SO <sub>2</sub>	0.008
VOC	55.9
CO	1.18
NO <sub>x</sub>	1.40

<b>HAPs</b>	<b>Unrestricted Potential Emissions (tons/yr)</b>
Trichloroethylene (TCE)	20.0
Xylene	5.33
Toluene	3.64
Formaldehyde	0.079
Ethylbenzene	0.570
Toluene diisocyanate	0.014
Glycol Ethers	1.11
Chromium	1.30
Lead	1.98
Manganese	0.144
MIBK	3.12
MEK	2.83
Cobalt	0.100
Hexane	0.025
HDI, Cumene, Triethylamine, Benzene, Dichlorobenzene, Cadmium, Nickel	< 0.01, each
Total	40.3

- (a) The unrestricted potential emissions of any single HAP is equal to or greater than ten (10) tons per year and the potential emissions of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. The source will be issued a FESOP Renewal because the source will continue to limit its emissions below the Title V levels.

- (b) The unrestricted potential emissions of VOC, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> and CO are each less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-7, Part 70, are not applicable.
- (c) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Potential to Emit After Issuance**

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP.

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Chromium anodizing	0.014	0.014	-	-	-	-	0.007 Chromium
Vapor blast Unit	2.41	2.41	-	-	-	-	-
Vapor Degreaser	-	-	-	9.97	-	-	9.97 TCE; 24.9 total
Surface Coating	1.41	1.41	-	2.74	-	-	
Insignificant Activities (Combustion and Storage)	0.027	0.107	0.008	0.087	1.18	1.40	0.01 TCE; 0.025 Hexane; 0.036 total
Total Emissions	3.86	3.94	0.008	12.8	1.18	1.40	< 10 individual; <25 total

In order to qualify for 326 IAC 2-8, FESOP, the source has agreed to continue to limit HAP emissions to less than ten (10) tons per year of each individual HAP and less than twenty-five (25) tons per year of any combination of HAPs. Since all emissions from the vapor degreaser are Trichloroethylene, the HAP and VOC emissions from the vapor degreaser are limited to 9.97 tons per year. The particulate emissions are limited in order for the source to comply with 326 IAC 6-3-2. See the State Rule Applicability sections of this document for specific limitations.

### County Attainment Status

The source is located in St. Joseph County.

Pollutant	Status
PM <sub>2.5</sub>	attainment
PM <sub>10</sub>	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
8-Hour Ozone	basic nonattainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. St. Joseph County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset. See the State Rule Applicability - Entire Source section of this document.
- (b) St. Joseph County has been classified as unclassifiable or attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions. See the State Rule Applicability - Entire Source section of this document.
- (c) St. Joseph County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.

### Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

<b>Pollutant</b>	<b>Emissions (tons/yr)</b>
PM	3.86
PM <sub>10</sub>	3.94
SO <sub>2</sub>	0.008
VOC	12.8
CO	1.18
NO <sub>x</sub>	1.40
Single HAP	< 10
Combination HAPs	< 25

This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or greater and it is not in one of the twenty-eight (28) listed source categories.

#### **Federal Rule Applicability**

- (a) The one (1) insignificant natural gas-fired boiler has a capacity less than 250 million British thermal units per hour. Therefore, the requirements of 40 CFR 60, Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, are not included in the permit for this source.
- (b) The one (1) insignificant natural gas-fired boiler was constructed prior to September 18, 1978. Therefore, the requirements of 40 CFR 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, are not included in the permit for this source.
- (c) The one (1) insignificant natural gas-fired boiler was not constructed, modified or reconstructed after June 19, 1984. Therefore, the requirements of 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, are not included in the permit for this source.
- (d) The one (1) insignificant natural gas-fired boiler was not constructed, modified or reconstructed after June 9, 1989. Therefore, the requirements of 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, are not included in the permit for this source.
- (e) This source is subject to the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63, Subpart N. Tanks EU-Bell Chrome 1 and EU-Bell Chrome 2 are subject to the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63, Subpart N, and 326 IAC 20-8, because they are chromium anodizing tanks.
  - (1) Tanks EU-Bell Chrome 1 and EU-Bell Chrome 2 are subject to the following portions of Subpart N. Non-applicable portions of the NESHAP will not be included in the permit.
    - (A) 40 CFR 63.340(a), (b), and (e)

- (B) 40 CFR 63.341
  - (C) 40 CFR 63.342(a), (b)(1), (d), (f), and (g)
  - (D) 40 CFR 63.343(a)(1)(ii) and (2), (b)(2), and (c)(5)
  - (E) 40 CFR 63.344(a), (c) and (d)(1), (2) and (3)
  - (F) 40 CFR 63.345 (a) and (b)(1), (2), (4), and (5)(i)
  - (G) 40 CFR 63.346
  - (H) 40 CFR 63.347(a) through (h)
  - (I) 40 CFR 63.348
- (2) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart N.
- (f) The open top vapor degreaser is a batch cleaning machine which uses halogenated solvents in concentrations five percent (5%) by weight. Therefore, it is subject to the National Emission Standards for Hazardous Air Pollutants, 40 CFR 60.460, Subpart T, which is incorporated by reference as 326 IAC 20-6-1.
- (1) The open top vapor degreaser is subject to the following portions of Subpart T. Non-applicable portions of the NESHAP will not be included in the permit.
- (A) 40 CFR 63.460(a), (b), (d), (e), and (h)
  - (B) 40 CFR 63.461
  - (C) 40 CFR 63.463(a), (b)(2)(i), (d), and (e)(2)(ii) and (vi)
  - (D) 40 CFR 63.466(a)(2), (d)(2), and (g)
  - (E) 40 CFR 63.467(a)(1), (2), and (5) and (b)(1), (2), and (3)
  - (F) 40 CFR 63.468(a), (b), (c), (d)(1) through (6), (f), (g), (h), and (i)
  - (G) 40 CFR 63.470
- (2) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart T.
- (g) The insignificant trichloroethylene storage tank has a capacity of 315 gallons, which is less than the smallest tank to which 40 CFR 60, Subparts K, Ka or Kb or 326 IAC 12 are applicable (40 cubic meters). Therefore, the requirements of 40 CFR 60, Subparts K, Ka and Kb are not included in the permit.
- (h) The potential to emit each individual HAP is limited to less than ten (10) tons per year, and the potential to emit any combination of HAPs is limited to less than twenty-five (25)

tons per year in order to comply with 326 IAC 2-8-4, FESOP (see 326 IAC 2-8-4 (FESOP), below). Therefore, this source is not a major source of HAPs, and the requirements of 40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters, are not included in the permit.

- (i) The potential to emit each individual HAP is limited to less than ten (10) tons per year, and the potential to emit any combination of HAPs is limited to less than twenty-five (25) tons per year in order to comply with 326 IAC 2-8-4, FESOP (see 326 IAC 2-8-4 (FESOP), below). Therefore, this source is not a major source of HAPs, and the requirements of 40 CFR 63, Subpart MMMM, for Miscellaneous Metal Parts and Products Surface Coating, are not included in the permit.

### **State Rule Applicability – Entire Source**

#### **326 IAC 2-3 (Emission Offset)**

The unrestricted potential VOC emissions and the unrestricted potential NO<sub>x</sub> emissions are each less than one hundred (100) tons per year. Therefore, this source is a minor source pursuant to 326 IAC 2-3, Emission Offset.

#### **326 IAC 2-2 (Prevention of Significant Deterioration (PSD))**

The unrestricted potential emissions of each attainment criteria pollutant are less than two hundred-fifty (250) tons per year. Therefore, this source, which is not one of the twenty-eight (28) listed source categories, is a minor source pursuant to 326 IAC 2-2, PSD.

#### **326 IAC 2-4.1-1 (New Source Toxics Control)**

The facilities at this source were not constructed or reconstructed on or after July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1-1, New Source Toxics Control, are not applicable.

#### **326 IAC 2-6 (Emission Reporting)**

This source is not located in Lake or Porter County with the potential to emit greater than twenty-five (25) tons per year of NO<sub>x</sub>, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

#### **326 IAC 2-8-4 (FESOP)**

- (a) The unrestricted potential emissions of a single HAP (trichloroethylene) are greater than 10 tons per year, and the unrestricted potential emissions of total HAPs are greater than 25 tons per year. Pursuant to F 141-7924-00167, issued on October 25, 2000, the emissions of each individual HAP at the entire source, is limited to less than 10 tons per year, and the emissions of any combination of HAPs is limited to less than 25 tons per year. Emissions are limited as follows:

The total usage of each individual HAP at the two (2) spray painting operations, identified as EU-SG1 and EU-SG2, and the one (1) vapor degreaser, identified as EU-Vapor Deg, shall be limited to 9.97 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The total usage of any combination of HAPs shall be limited to 24.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 2-7, are not applicable.

- (b) The unrestricted potential emissions of PM<sub>10</sub>, SO<sub>2</sub>, VOC, CO and NO<sub>x</sub> are less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-7, Part 70, are not applicable.

#### 326 IAC 5-1 (Opacity Limitations)

This source is located north of Kern Road and east of Pine Road in St. Joseph County. Therefore, it is subject to the requirements of 326 IAC 5-1-2(2). Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)

This source is located in St. Joseph County, but is not listed in 326 IAC 6.5-7, the potential to emit particulate matter is less than one hundred (100) tons per year and the actual particulate matter emissions are less than ten (10) tons per year. Therefore, the requirements of 326 IAC 6.5 are not applicable.

#### 326 IAC 8-6 (Organic Solvent Emission Limitations)

This source commenced operation after October 7, 1974, and prior to January 1, 1980, but the potential VOC emissions are less than one hundred (100) tons per year. Therefore, the requirements of 326 IA 8-6 are not applicable.

### **State Rule Applicability – Individual Facilities**

#### 326 IAC 4-2 (Incinerators)

Pursuant to 326 IAC 1-2-34, an incinerator is defined as an engineered apparatus that burns waste substances with controls on combustion factors including, but not limited to, temperature, retention time, and air. The curing ovens at this source are for curing and drying coatings. They do not burn waste substances. Therefore, the ovens are not incinerators and the requirements of 326 IAC 4-2 are not applicable.

#### 326 IAC 6-2-3 (Particulate Emissions Limitations for Sources of Indirect Heating)

The one (1) insignificant natural gas-fired boiler was constructed in 1976 in St. Joseph County. Therefore, the boiler is subject to the requirements of 326 IAC 6-2-3. This boiler, with a total heat input capacity of 3.2 million British thermal units per hour, must comply with the particulate emission limitation of 326 IAC 6-2-3. This limitation is based on the following equation is given in 326 IAC 6-2-3:

$$Pt = C \times a \times h / 76.5 \times Q^{0.75} \times N^{0.25}$$

where:

- Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input
- Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used. (3.2)
- C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.
- N = Number of stacks in fuel burning operation. (1)
- a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 mmBtu/hr heat input. The value 0.8 shall be used for Q greater than 1,000 mmBtu/hr heat input.
- h = Stack height in feet. (22)

For the one (1) boiler:

$$Pt = 50 \times 0.67 \times 22 / 76.5 \times (3.2)^{0.75} \times 1^{0.25} = 4.03 \text{ lb/MMBtu}$$

Pursuant to 326 IAC 6-2-3(e), for Q less than 250 million British thermal units per hour, Pt shall not exceed 0.6 pound per million British thermal units. Therefore, the one (1) boiler is limited to emissions of 0.6 pound per million British thermal units.

The PM emission factor for this boiler is 1.9 pound per million cubic feet of natural gas according to AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, which is equivalent to 0.0019 lb/MMBtu (1.9 lb/MMcf x 1 MMcf/1,000 MMBtu = 0.0019 lb/MMBtu). Therefore, the one (1) boiler will comply with this rule.

#### 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2(d), the dry filters for particulate control shall be operation in accordance with manufacturer's specifications and control emissions from the two (2) spray paint guns (EU-SG1 and EU-SG2), at all times when from the two (2) spray paint guns (EU-SG1 and EU-SG2) are in operation.
- (b) Pursuant to 326 IAC 6-3-2(e)(2), the particulate from the one (1) vapor blast unit (EU-Vapor Blast) shall not exceed 0.551 pound per hour, when operating at a process weight rate of less than one hundred (100) pounds per hour. The potential to emit particulate from the vapor blast unit is 0.074 pounds per hour, after control by the dry filter. Thus, the dry filter must be in operation and control emissions from the vapor blast unit at all times when the vapor blast unit is in operation.
- (c) Pursuant to 326 IAC 6-3-1(c)(6), this rule is not applicable to the chromium anodizing operations because a particulate limit for the electroplating is established in 326 IAC 20-8-1.

- (d) The potential particulate emissions from all other manufacturing processes are less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the requirements of 326 IAC 6-3 are not applicable.

326 IAC 8-1-6 (New facilities; General reduction requirements)

Since all facilities at this source were constructed prior to 1980, the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

The two (2) spray painting operations, identified as EU-SG1 and EU-SG2, were installed in 1975 at this source, located in St. Joseph County. Therefore, the facilities were existing as of July 1, 1990 in St. Joseph County. Pursuant to F 141-7924-00167, issued on October 25, 2000, the total actual VOC usage (VOC delivered to the applicators), when coating metal parts shall be limited to less than fifteen (15) pounds per day. This limits the actual VOC emissions from the metal coating operations to less than fifteen (15) pounds per day. Thus, the surface coating facilities, existing as of July 1, 1990 in St. Joseph County, are not subject to the requirements of 326 IAC 8-2-9.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

- (a) The one (1) open top vapor degreaser was constructed prior to January 1, 1980 in St. Joseph County. Since the degreaser is located at a source that has a potential to emit less than one hundred (100) tons per year of VOC, the requirements of 326 IAC 8-3-3 are not applicable.
- (b) The one (1) open top vapor degreaser was existing as of July 1, 1990 in St. Joseph County and is an open top vapor degreaser with a solvent interface greater than one (1) square meter. Therefore, the requirements of 326 IAC 8-3-6, Open top vapor degreaser operation and control requirements, are applicable. Pursuant to 326 IAC 8-3-6, the owner or operator of an open top vapor degreaser shall:
  - (1) Ensure that the following control equipment requirements are met:
    - (A) Equip the degreaser with a cover that can be opened and closed easily without disturbing the vapor zone.
    - (B) Equip the degreaser with the following switches:
      - (i) A condenser flow switch and thermostat which shuts off sump heat if condenser coolant stops circulating or becomes too warm.
      - (ii) A spray safety switch which shuts off spray pump if the vapor level drops more than ten (10) centimeters (four (4) inches).
    - (C) Equip the degreaser with a permanent, conspicuous label which lists the operating requirements outlined below in (b).
    - (D) Equip the degreaser with one (1) of the following control devices:

- (i) A freeboard ratio of seventy-five hundredth (0.75) or greater and a powered cover if the degreaser opening is greater than one (1) square meter (ten and eight-tenths (10.8) square feet).
  - (ii) A refrigerated chiller.
  - (iii) An enclosed design in which the cover opens only when the article is actually entering or exiting the degreaser.
  - (iv) A carbon adsorption system with ventilation which, with the cover open, achieves a ventilation rate of greater than or equal to fifteen (15) cubic meters per minute per square meter (fifty (50) cubic feet per minute per square foot) of air to vapor interface area and an average of less than twenty-five (25) parts per million of solvent is exhausted over one (1) complete adsorption cycle.
  - (v) Other systems of demonstrated equivalent or better control as those outlined in clauses (A) through (D). Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (2) Ensure that the following operating requirements are met:
- (A) Keep the cover closed at all times except when processing workloads through the degreaser.
  - (B) Minimize solvent carry out emissions by:
    - (i) racking articles to allow complete drainage;
    - (ii) moving articles in and out of the degreaser at less than three and three-tenths (3.3) meters per minute (eleven (11) feet per minute);
    - (iii) degreasing the workload in the vapor zone at least thirty (30) seconds or until the condensation ceases;
    - (iv) tipping out any pools of solvent on the cleaned articles before removal; and
    - (v) allowing articles to dry within the degreaser for at least fifteen (15) seconds or until visually dry.
  - (C) Prohibit the entrance into the degreaser of porous or absorbent materials such as, but not limited to, cloth, leather, wood, or rope.
  - (D) Prohibit occupation of more than one-half ( $\frac{1}{2}$ ) of the degreaser's open top area with the workload.
  - (E) Prohibit the loading of the degreaser to the point where the vapor level would drop to more than ten (10) centimeters (four (4) inches) when the workload is removed.
  - (F) Prohibit solvent spraying above the vapor level.

- (G) Repair solvent leaks immediately or shut down the degreaser if leaks cannot be repaired immediately.
- (H) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste by solvent by weight could evaporate.
- (I) Prohibit the exhaust ventilation rate from exceeding twenty (20) cubic meters per minute per square meter (sixty-five (65) cubic feet per minute per square foot) of degreaser open area unless a greater ventilation rate is necessary to meet Occupational Safety and Health Administration requirements.
- (J) Prohibit the use of workplace fans near the degreaser opening.
- (K) Prohibit visually detectable water in the solvent exiting the water separator.

#### 326 IAC 20-6-1 (Halogenated Solvent Cleaning)

The requirements of 40 CFR 63, Subpart T, are applicable to this source as indicated in the "Federal Rule Applicability" section of this document.

#### 326 IAC 20-8 (Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks)

The two (2) chromium anodizing tanks, identified as Tanks EU-Bell Chrome 1 and EU-Bell Chrome 2, are subject to 326 IAC 20-8, National Emission Standards for Chromium Emissions from Hard and Decorative Electroplating and Anodizing Tanks. This rule incorporates by reference 40 CFR 63, Subpart N. The Permittee will comply with the provisions of 40 CFR 63 Subpart N as detailed in the Federal Rule Applicability Determination section above.

### Testing Requirements

There is no testing required by the permit at this time.

### Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforce-

ment action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

- (a) The two (2) chromium anodizing tanks, identified as EU-Bell Chrome 1 and EU-Bell Chrome 2, have applicable compliance monitoring conditions as specified below:

The monitoring required by 40 CFR 63, Subpart N, is required for the two (2) chromium anodizing tanks, identified as EU-Bell Chrome 1 and EU-Bell Chrome 2, in order to ensure that the anodizing and the wetting agent control method are operating properly at all times. The process must operate properly to in order for the two (2) chromium anodizing tanks, identified as EU-Bell Chrome 1 and EU-Bell Chrome 2, to comply with 326 IAC 20-8 and 40 CFR 63, Subpart N and 26 IAC 20-8.

- (b) The two (2) spray painting operations, identified as EU-SG1 and EU-SG2, have applicable compliance monitoring conditions as specified below:

(1) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (SSBX and LSBX) while one or more of the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(2) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

These monitoring conditions are necessary because the dry filters for the surface coating processes must operate properly to ensure compliance with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-8 (FESOP).

## Conclusion

The operation of this chromium anodizing and surface coating source shall be subject to the conditions of the **FESOP 141-20031-00167**.

**Appendix A: Potential Emissions Calculations  
VOC and Particulate  
From Surface Coating Operations**

**Company Name: Remote Controls, Inc.  
Address City IN Zip: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP Renewal: F 141-20031-00167  
Reviewer: CarrieAnn Paukowits  
Application Date: December 20, 2004**

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Flash-off (fraction)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential tons per year	lb VOC /gal solids	Transfer Efficiency
N-4281 One PKG wash prime	7.38	97.35%	0.0%	97.4%	0.0%	1.84%	0.00265	30.515	1.00	7.18	7.18	0.58	13.94	2.54	0.03	390.46	50%
N5874 Black W/R SG TOPCOT	10.75	51.25%	43.6%	7.6%	56.34%	32.02%	0.00450	30.515	1.00	1.87	0.82	0.11	2.70	0.49	1.58	2.55	50%
N5874 Black WR SG TOPCOAT	10.75	51.25%	43.6%	7.7%	56.34%	32.02%	0.00136	30.515	1.00	1.88	0.82	0.03	0.82	0.15	0.48	2.57	50%
Polane B POLY INTER MIX: F63BT/3	10.29	49.40%	0.0%	49.4%	0.0%	29.10%	0.00095	30.515	1.00	5.08	5.08	0.15	3.54	0.65	0.33	17.47	50%
Polane B Polyurethane	10.42	47.60%	0.0%	47.6%	0.0%	30.60%	0.00703	30.515	1.00	4.96	4.96	1.06	25.54	4.66	2.57	16.21	50%
Polane B/T B BASE: F63BT/1	10.00	65.00%	0.0%	65.0%	0.0%	30.00%	0.00049	30.515	1.00	6.50	6.50	0.10	2.33	0.43	0.11	21.67	50%
Polane B/T CATALYST: F63BT/1	9.57	40.00%	0.0%	40.0%	0.0%	52.30%	0.00026	30.515	1.00	3.83	3.83	0.03	0.73	0.13	0.10	7.32	50%
Polane B/T CATALYST: F63BT/1	8.85	25.00%	0.0%	25.0%	0.0%	69.60%	0.00028	30.515	1.00	2.21	2.21	0.02	0.45	0.08	0.12	3.18	50%
Polane B/T REDUCER: F63BT/1	7.04	100.00%	0.0%	100.0%	0.0%	0.00%	0.00139	30.515	1.00	7.04	7.04	0.30	7.17	1.31	0.00	N/A	50%
Polane B/T REDUCER: F63BT/1	7.25	100.00%	0.0%	100.0%	0.0%	0.00%	0.00135	30.515	1.00	7.25	7.25	0.30	7.17	1.31	0.00	N/A	50%
Polane B/T T BASE: F63BT/1	10.80	60.00%	0.0%	60.0%	0.0%	37.00%	0.00136	30.515	1.00	6.48	6.48	0.27	6.45	1.18	0.39	17.51	50%
Polane HS BASE:F63J/1:F63JX	11.60	35.00%	0.0%	35.0%	0.0%	60.00%	0.00084	30.515	1.00	4.06	4.06	0.10	2.50	0.46	0.42	6.77	50%
Polane HS REDUCER:F63J/1	6.76	100.00%	0.0%	100.0%	0.0%	0.00%	0.00036	30.515	1.00	6.76	6.76	0.07	1.78	0.33	0.00	N/A	50%
1 Shot Lettering Enamels	7.43	35.01%	0.0%	35.0%	0.0%	75.00%	0.00263	30.515	1.00	2.60	2.60	0.21	5.01	0.91	0.85	3.47	50%
37038 Black Flat Air Dry	8.80	48.60%	0.0%	48.6%	0.0%	39.00%	0.00056	30.515	1.00	4.28	4.28	0.07	1.75	0.32	0.17	10.97	50%
B59S4 Silver Paint	9.04	57.60%	0.0%	57.6%	0.0%	25.60%	0.00108	30.515	1.00	5.21	5.21	0.17	4.12	0.75	0.28	20.34	50%
Colorworks Appliance Epoxy	6.26	62.40%	0.0%	62.4%	0.0%	37.60%	0.00008	30.515	1.00	3.91	3.91	0.01	0.23	0.04	0.01	10.39	50%
Colorworks High Temp	6.46	79.40%	0.0%	79.4%	0.0%	20.60%	0.00227	30.515	1.00	5.13	5.13	0.36	8.53	1.56	0.20	24.90	50%
Colorworks Metallic Enamel	6.22	88.40%	0.0%	88.4%	0.0%	11.60%	0.00079	30.515	1.00	5.50	5.50	0.13	3.18	0.58	0.04	47.40	50%
Colorworks Quick Dry Laquer	8.74	36.30%	0.0%	36.3%	0.0%	50.30%	0.00056	30.515	1.00	3.17	3.17	0.05	1.30	0.24	0.21	6.31	50%
Colorworks Quick Dry Laquer	8.74	36.30%	0.0%	36.3%	0.0%	50.30%	0.00056	30.515	1.00	3.17	3.17	0.05	1.30	0.24	0.21	6.31	50%
Justrite Thinner & Cleaner	7.65	100.00%	0.0%	100.0%	0.0%	0.00%	0.00030	30.515	1.00	7.65	7.65	0.07	1.68	0.31	0.00	N/A	50%
K11027 Vit Drum ENL White	10.60	42.30%	0.0%	42.3%	0.0%	57.74%	0.00092	30.515	1.00	4.48	4.48	0.13	3.02	0.55	0.38	7.77	50%
K72199 Bake Grey Enamel	10.00	41.70%	0.0%	41.7%	0.0%	58.30%	0.00488	30.515	1.00	4.17	4.17	0.62	14.90	2.72	1.90	7.15	50%
N-1088A White Epoxy Primer	11.18	37.95%	0.0%	38.0%	0.0%	40.60%	0.00131	30.515	1.00	4.24	4.24	0.17	4.07	0.74	0.61	10.45	50%
N-1088BM 4:1 Blend	7.54	68.60%	0.0%	68.6%	0.0%	25.28%	0.00194	30.515	1.00	5.17	5.17	0.31	7.35	1.34	0.31	20.46	50%
Polane HS REDUCER: F63J/1	7.86	100.00%	0.0%	100.0%	0.0%	0.00%	0.00031	30.515	1.00	7.86	7.86	0.07	1.78	0.33	0.00	N/A	50%
Polane HS Catalyst: F63J/1	9.32	27.50%	0.0%	27.5%	0.0%	62.10%	0.00131	30.515	1.00	2.56	2.56	0.10	2.46	0.45	0.59	4.13	50%
Polane HS Catalyst: F63J/1	9.34	10.00%	0.0%	10.0%	0.0%	87.20%	0.00026	30.515	1.00	0.93	0.93	0.01	0.18	0.03	0.15	1.07	50%
Polane Plus/2.8 "T Plus" F63PVE/2	14.40	19.00%	0.0%	19.0%	0.0%	64.00%	0.00712	30.515	1.00	2.74	2.74	0.59	14.27	2.60	5.55	4.28	50%
Polane Plus/2.8 F63PVE/1 POLANE	14.40	19.00%	0.0%	19.0%	0.0%	64.00%	0.01018	30.515	1.00	2.74	2.74	0.85	20.40	3.72	7.94	4.28	50%
Polane T Poly Enamel	11.66	42.20%	0.0%	42.2%	0.0%	57.80%	0.00126	30.515	1.00	4.92	4.92	0.19	4.54	0.83	0.57	8.51	50%
Polane T Poly Inter Color	10.62	47.90%	0.0%	47.9%	0.0%	31.30%	0.00230	30.515	1.00	5.09	5.09	0.36	8.57	1.56	0.85	16.25	50%
Polane T Poly Inter Enamel	11.66	42.20%	0.0%	42.2%	0.0%	57.80%	0.00084	30.515	1.00	4.92	4.92	0.13	3.03	0.55	0.38	8.51	50%
XE-2733 White (TT-E-489)	8.48	46.74%	0.0%	46.7%	0.0%	38.24%	0.00012	30.515	1.00	3.96	3.96	0.01	0.35	0.06	0.04	10.36	50%
XE-6161 Low Gloss Blk A.D.	9.20	48.57%	0.0%	48.6%	0.0%	36.83%	0.00106	30.515	1.00	4.47	4.47	0.14	3.47	0.63	0.34	12.13	50%
XE-6567A Yellow EPX Primer	11.16	37.88%	0.0%	37.9%	0.0%	39.59%	0.00044	30.515	1.00	4.23	4.23	0.06	1.36	0.25	0.20	10.68	50%
XE-6567BM Comp B	7.25	86.51%	0.0%	86.5%	0.0%	12.19%	0.00060	30.515	1.00	6.27	6.27	0.11	2.76	0.50	0.04	51.45	50%
XE-7156 Zinc Dichromate	10.23	41.17%	0.0%	41.2%	0.0%	39.82%	0.00010	30.515	1.00	4.21	4.21	0.01	0.31	0.06	0.04	10.58	50%
XE-7751A 383 CARC T2	11.56	37.12%	0.0%	37.1%	0.0%	42.09%	0.00042	30.515	1.00	4.29	4.29	0.05	1.32	0.24	0.20	10.19	50%

<b>State Potential Emissions</b>	<b>Add worst case coating to all solvents</b>	<b>Unrestricted Potential Emissions:</b>	<b>8.18</b>	<b>196</b>	<b>35.8</b>	<b>28.2</b>
		<b>Control Efficiency:</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>95.0%</b>
		<b>Potential Emissions after Controls:</b>	<b>8.18</b>	<b>196</b>	<b>35.8</b>	<b>1.41</b>

Emissions due to Surface Coating Operations and Controls

**METHODOLOGY**

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) \* Weight % Organics) / (1-Volume % water)  
 Pounds of VOC per Gallon Coating = (Density (lb/gal) \* Weight % Organics)  
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* Flash-off  
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (24 hr/day) \* Flash-off  
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (8760 hr/yr) \* (1 ton/2000 lbs) \* Flash-off  
 Particulate Potential Tons per Year = (units/hour) \* (gal/unit) \* (lbs/gal) \* (1-Weight % Volatiles) \* (1-Transfer efficiency) \* (8760 hrs/yr) \* (1 ton/2000 lbs)  
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) \* Weight % organics) / (Volume % solids) \* Flash-off  
 Total = Worst Coating + Sum of all solvents used

**HAP Emission Calculations  
From Surface Coating Operations**

**Company Name: Remote Controls, Inc.  
Address City IN Zip: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP Renewal: F 141-20031-00167  
Reviewer: CarrieAnn Paukowitz  
Application Date: December 20, 2004**

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Formaldehyde	Weight % Ethylbenzene	Weight % Toluene Diisocyanate	Weight % Glycol Ethers	Weight % Hexamethylene Diisocyanate	Weight % Cumene	Xylene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Formaldehyde Emissions (tons/yr)	Ethylbenzene Emissions (tons/yr)	Toluene Diisocyanate Emissions (tons/yr)	Glycol Ethers Emissions (tons/yr)	Hexamethylene Diisocyanate (tons/yr)	Cumene (tons/yr)
N-4281 One PKG wash prime	7.38	0.00265	30.52	35.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.915	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
N5874 Black W/R SG TOPCOAT	10.75	0.00450	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.453	0.000	0.0000
N5874 Black WR SG TOPCOAT	10.75	0.00136	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.137	0.000	0.0000
Polane B POLY INTER MIX: F63BT/3	10.29	0.00095	30.52	3.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.039	0.065	0.000	0.000	0.000	0.000	0.000	0.0000
Polane B Polyurethane	10.42	0.00703	30.52	0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.392	0.000	0.000	0.000	0.000	0.000	0.0000
Polane B/T B BASE: F63BT/1	10.00	0.00049	30.52	4.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.026	0.052	0.000	0.000	0.000	0.000	0.000	0.0000
Polane B/T CATALYST: F63BT/1	9.57	0.00026	30.52	0.00%	0.00%	0.00%	0.00%	0.30%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.0000
Polane B/T CATALYST: F63BT/1	8.85	0.00028	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
Polane B/T REDUCER: F63BT/1	7.04	0.00139	30.52	52.00%	15.00%	0.00%	9.00%	0.00%	0.00%	0.00%	0.00%	0.680	0.196	0.000	0.118	0.000	0.000	0.000	0.0000
Polane B/T REDUCER: F63BT/1	7.25	0.00135	30.52	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.262	0.000	0.000	0.000	0.000	0.000	0.0000
Polane B/T T BASE: F63BT/1	10.80	0.00136	30.52	4.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.079	0.157	0.000	0.000	0.000	0.000	0.000	0.0000
Polane HS BASE:F63J/1;F63JX	11.60	0.00084	30.52	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.065	0.000	0.000	0.000	0.000	0.000	0.0000
Polane HS REDUCER:F63J/1	6.76	0.00036	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
1 Shot Lettering Enamels	7.43	0.00263	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
37038 Black Flat Air Dry	8.80	0.00056	30.52	35.00%	15.00%	0.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.231	0.099	0.000	0.000	0.000	0.000	0.000	0.0000
B59S4 Silver Paint	9.04	0.00108	30.52	14.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	1.00%	0.183	0.000	0.000	0.039	0.000	0.000	0.000	0.0002
Colorworks Appliance Epoxy	6.26	0.00008	30.52	16.00%	8.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.011	0.005	0.000	0.000	0.002	0.000	0.000	0.0000
Colorworks High Temp	6.46	0.00227	30.52	7.00%	26.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.137	0.510	0.000	0.020	0.000	0.000	0.000	0.0000
Colorworks Metallic Enamel	6.22	0.00079	30.52	0.00%	58.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.381	0.000	0.000	0.000	0.000	0.000	0.0000
Colorworks Quick Dry Laquer	8.74	0.00056	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
Colorworks Quick Dry Laquer	8.74	0.00056	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
Justrite Thinner & Cleaner	7.65	0.00030	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.307	0.000	0.0000
K11027 Vit Drum ENL White	10.60	0.00092	30.52	25.00%	0.00%	1.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.326	0.000	0.013	0.065	0.000	0.000	0.000	0.0000
K72199 Bake Grey Enamel	10.00	0.00488	30.52	20.00%	5.00%	1.00%	5.00%	0.00%	0.00%	0.00%	0.00%	1.304	0.326	0.065	0.326	0.000	0.000	0.000	0.0000
N-1088A White Epoxy Primer	11.18	0.00131	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
N-1088BM 4:1 Blend	7.54	0.00194	30.52	11.00%	0.00%	0.00%	0.00%	0.00%	11.00%	0.00%	0.00%	0.215	0.000	0.000	0.000	0.000	0.215	0.000	0.0000
Polane HS REDUCER: F63J/1	7.86	0.00031	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
Polane HS Catalyst: F63J/1	9.32	0.00131	30.52	0.00%	0.00%	0.00%	0.00%	0.80%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.0000
Polane HS Catalyst: F63J/1	9.34	0.00026	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.30%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.0000
Polane Plus/2.8 "T Plus" F63PVE/2	14.40	0.00712	30.52	2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.274	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
Polane Plus/2.8 F63PVE/1 POLANE	14.40	0.01018	30.52	2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.392	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
Polane T Poly Enamel	11.66	0.00126	30.52	3.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.059	0.098	0.000	0.000	0.000	0.000	0.000	0.0000
Polane T Poly Inter Color	10.62	0.00230	30.52	2.00%	6.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.065	0.196	0.000	0.000	0.000	0.000	0.000	0.0000
Polane T Poly Inter Enamel	11.66	0.00084	30.52	3.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.039	0.065	0.000	0.000	0.000	0.000	0.000	0.0000
XE-2733 White (TT-E-489)	8.48	0.00012	30.52	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
XE-6161 Low Gloss Blk A.D.	9.20	0.00106	30.52	19.00%	21.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.248	0.274	0.000	0.000	0.000	0.000	0.000	0.0000
XE-6567A Yellow EPX Primer	11.16	0.00044	30.52	7.00%	16.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.046	0.105	0.000	0.000	0.000	0.000	0.000	0.0000
XE-6567BM Comp B	7.25	0.00060	30.52	5.00%	63.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.029	0.366	0.000	0.000	0.000	0.000	0.000	0.0000
XE-7156 Zinc Dichromate	10.23	0.00010	30.52	20.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.027	0.027	0.000	0.000	0.000	0.000	0.000	0.0000
XE-7751A 383 CARC T2	11.56	0.00042	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
<b>TOTALS:</b>												<b>5.33</b>	<b>3.64</b>	<b>0.078</b>	<b>0.570</b>	<b>0.014</b>	<b>1.11</b>	<b>0.001</b>	<b>0.0002</b>

HAPS emission rate (tons/yr) = Density (lb/gal) \* Gal of Material (gal/unit) \* Maximum (unit/hr) \* Weight % HAP \* 8760 hrs/yr \* 1 ton/2000 lbs

**HAP Emission Calculations  
From Surface Coating Operations**

**Company Name:** Remote Controls, Inc.  
**Address City IN Zip:** 512 South Merrifield Avenue, Mishawaka, IN 46544  
**FESOP Renewal:** F 141-20031-00167  
**Reviewer:** CarrieAnn Paukowitz  
**Application Date:** December 20, 2004

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Chromium Compounds	Weight % Lead	Weight % Manganese Compounds	Weight % MIBK	Weight % MEK	Weight % Cobalt Compounds	Weight % Triethylamine	Chromium Compounds Emissions (tons/yr)	Lead Emissions (tons/yr)	Manganese Compounds Emissions (tons/yr)	MIBK Emissions (tons/yr)	MEK Emissions (tons/yr)	Cobalt Compounds Emissions (tons/yr)	Triethylamine Emissions (tons/yr)	Total HAP Emissions (tons/yr)
N-4281 One PKG wash prime	7.38	0.00265	30.52	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.915
N5874 Black W/R SG TOPCOAT	10.75	0.00450	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.065	0.000	0.517
N5874 Black WR SG TOPCOAT	10.75	0.00136	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.156
Polane B POLY INTER MIX: F63BT/3	10.29	0.00095	30.52	29.00%	29.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.379	0.379	0.000	0.196	0.000	0.000	0.000	1.058
Polane B Polyurethane	10.42	0.00703	30.52	0.00%	0.00%	0.00%	0.00%	19.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	1.860	0.000	0.000	2.252
Polane B/T B BASE: F63BT/1	10.00	0.00049	30.52	0.00%	0.00%	0.00%	0.00%	24.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.157	0.000	0.000	0.236
Polane B/T CATALYST: F63BT/1	9.57	0.00026	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Polane B/T CATALYST: F63BT/1	8.85	0.00028	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Polane B/T REDUCER: F63BT/1	7.04	0.00139	30.52	0.00%	0.00%	0.00%	24.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.314	0.000	0.000	0.000	1.308
Polane B/T REDUCER: F63BT/1	7.25	0.00135	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.262
Polane B/T T BASE: F63BT/1	10.80	0.00136	30.52	0.00%	0.00%	0.00%	0.00%	23.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.452	0.000	0.000	0.687
Polane HS BASE:F63J/1:F63JX	11.60	0.00084	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065
Polane HS REDUCER:F63J/1	6.76	0.00036	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1 Shot Lettering Enamels	7.43	0.00263	30.52	0.00%	30.00%	5.00%	7.00%	0.00%	0.00%	0.00%	0.000	0.784	0.131	0.000	0.000	0.000	0.000	0.914
37038 Black Flat Air Dry	8.80	0.00056	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.329
B59S4 Silver Paint	9.04	0.00108	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.222
Colorworks Appliance Epoxy	6.26	0.00008	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018
Colorworks High Temp	6.46	0.00227	30.52	0.00%	0.00%	0.00%	16.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.314	0.000	0.000	0.000	0.980
Colorworks Metallic Enamel	6.22	0.00079	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.381
Colorworks Quick Dry Laquer	8.74	0.00056	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Colorworks Quick Dry Laquer	8.74	0.00056	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Justrite Thinner & Cleaner	7.65	0.00030	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.307
K11027 Vit Drum ENL White	10.60	0.00092	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.404
K72199 Bake Grey Enamel	10.00	0.00488	30.52	0.00%	0.00%	0.00%	2.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.130	0.000	0.000	0.000	2.152
N-1088A White Epoxy Primer	11.18	0.00131	30.52	0.00%	0.00%	0.00%	2.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
N-1088BM 4:1 Blend	7.54	0.00194	30.52	0.00%	0.00%	0.00%	28.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.547	0.000	0.000	0.000	0.978
Polane HS REDUCER: F63J/1	7.86	0.00031	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Polane HS Catalyst: F63J/1	9.32	0.00131	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
Polane HS Catalyst: F63J/1	9.34	0.00026	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Polane Plus/2.8 "T Plus" F63PVE/2	14.40	0.00712	30.52	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.685	0.000	0.000	0.000	0.959
Polane Plus/2.8 F63PVE/1 POLANE	14.40	0.01018	30.52	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.980	0.000	0.000	0.000	1.371
Polane T Poly Enamel	11.66	0.00126	30.52	0.00%	0.00%	0.00%	0.00%	4.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.079	0.000	0.000	0.236
Polane T Poly Inter Color	10.62	0.00230	30.52	25.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.816	0.816	0.000	0.000	0.000	0.000	0.000	1.894
Polane T Poly Inter Enamel	11.66	0.00084	30.52	0.00%	0.00%	0.00%	0.00%	4.00%	0.00%	0.00%	0.000	0.000	0.000	0.052	0.000	0.000	0.000	0.157
XE-2733 White (TT-E-489)	8.48	0.00012	30.52	0.00%	1.00%	0.00%	0.00%	0.00%	1.00%	1.00%	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.011
XE-6161 Low Gloss Blk A.D.	9.20	0.00106	30.52	0.00%	0.00%	1.00%	0.00%	0.00%	1.00%	0.00%	0.000	0.000	0.013	0.000	0.000	0.013	0.000	0.547
XE-6567A Yellow EPX Primer	11.16	0.00044	30.52	15.00%	0.00%	0.00%	14.00%	0.00%	0.00%	0.00%	0.098	0.000	0.000	0.092	0.000	0.000	0.000	0.341
XE-6567BM Comp B	7.25	0.00060	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.395
XE-7156 Zinc Dichromate	10.23	0.00010	30.52	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.057
XE-7751A 383 CARC T2	11.56	0.00042	30.52	0.00%	0.00%	0.00%	3.00%	5.00%	0.00%	0.00%	0.000	0.000	0.000	0.019	0.032	0.000	0.000	0.052
<b>TOTALS:</b>										<b>(tons/yr):</b>	<b>1.29</b>	<b>1.98</b>	<b>0.144</b>	<b>3.12</b>	<b>2.83</b>	<b>0.100</b>	<b>0.003</b>	<b>20.2</b>

HAPS emission rate (tons/yr) = Density (lb/gal) \* Gal of Material (gal/unit) \* Maximum (unit/hr) \* Weight % HAP \* 8760 hrs/yr \* 1 ton/2000 lbs

**Appendix A: Emission Calculations  
Vapor Degreaser & Baghouse Operations**

**Company Name:** Remote Controls, Inc.  
**Address City IN Zip:** 512 South Merrifield Avenue, Mishawaka, IN 46544  
**FESOP Renewal:** F 141-20031-00167  
**Reviewer:** CarrieAnn Paukowits  
**Application Date:** December 20, 2004

**Vapor Blast**

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	PM Emission Rate before Controls (lbs/hr)	PM Emission Rate before Controls (tons/yr)	PM Emission Rate after Controls (lbs/hr)	PM Emission Rate after Controls (tons/yr)
LMF	95.0%	0.005	1725.0	1.48	6.48	0.074	0.324

**Methodology**

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

**Vapor Degreaser**

Solvent	Usage gals/day	Density (lbs/gal)	Limited Emissions Trichloroethylene (TCE)		
			PTE Trichloroethylene (TCE) (lbs/day)	(tons/yr)	(tons/yr)
Trichloroethylene	9.00	12.184	110	20.0	9.97

Trichloroethylene is a VOC and a HAP.

Calculation is based on potential usage rate from Form GSD-08 (4.571 lbs/hr, which is equivalent to 9.00 gals/day, potential).

**Appendix A: Emissions Calculations  
Natural Gas Combustion Only  
MM BTU/HR <100  
Small Industrial Boiler**

**Company Name:** Remote Controls, Inc.  
**Address City IN Zip:** 512 South Merrifield Avenue, Mishawaka, IN 46544  
**FESOP Renewal:** F 141-20031-00167  
**Reviewer:** CarrieAnn Paukowits  
**Application Date:** December 20, 2004

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

3.20

28.0

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.027	0.107	0.008	1.40	0.077	1.18

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	0.00210	0.00120	0.07500	1.80000	0.00340
Potential Emission in tons/yr	0.000029	0.000017	0.001051	0.025229	0.000048

	HAPs - Metals					Total
	Lead	Cadmium	Chromium	Manganese	Nickel	
Emission Factor in lb/MMcf	0.0005	0.0011	0.0014	0.0004	0.0021	
Potential Emission in tons/yr	0.00001	0.00002	0.00002	0.00001	0.00003	<b>0.026</b>

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations  
Emissions Summary

Company Name: Remote Controls, Inc.  
Address City IN Zip: 512 South Merrifield Avenue, Mishawaka, IN 46544  
FESOP Renewal: F 141-20031-00167  
Reviewer: CarrieAnn Paukowitz  
Application Date: December 20, 2004

Unrestricted Potential Emissions

	PM	PM10	SO2	NOx	VOC	CO	Xylene	Toluene	Form- aldehyde	Ethyl- benzene	Toluene Diso- cyanate	Glycol Ethers	Hexa- methylene Diso- cyanate	Cumene	Chromium	Lead	Maganese	MIBK	MEK	Cobalt	Triethyl- amine	Trichloro- ethylene	Benzene	Dichloro- benzene	Hexane	Cadmium	Nickel	Total HAPs
Surface Coating	28.17	28.17	0.00	0.00	35.83	0.00	5.33	3.64	0.08	0.57	0.014	1.11	0.001	0.0002	1.29	1.98	0.144	3.12	2.83	0.100	0.003	0.00	0.00000	0.00000	0.000	0.00000	0.00000	20.22
Vapor Degreasing	0.00	0.00	0.00	0.00	20.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.000	0.00	0.000	0.00	0.00	0.000	0.000	20.01	0.00000	0.00000	0.000	0.00000	0.00000	20.01
Vapor Blasting	6.48	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.000	0.00	0.000	0.00	0.00	0.000	0.000	0.00	0.00000	0.00000	0.000	0.00000	0.00000	0.00
Anodizing	0.014	0.014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.007	0.00	0.000	0.00	0.00	0.000	0.000	0.00	0.00000	0.00000	0.000	0.00000	0.00000	0.007
Insignificant Combustion	0.027	0.107	0.008	1.40	0.077	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.00002	0.00001	0.000005	0.00	0.00	0.000	0.000	0.00	0.00003	0.00002	0.025	0.00002	0.00003	0.026
Insignificant Tank	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.000	0.00	0.000	0.00	0.00	0.000	0.000	0.01	0.00000	0.00000	0.000	0.00000	0.00000	0.01
Total	34.69	34.77	0.008	1.40	55.93	1.18	5.33	3.64	0.079	0.570	0.014	1.11	0.001	0.0002	1.30	1.98	0.144	3.12	2.83	0.100	0.003	20.02	0.00003	0.00002	0.025	0.00002	0.00003	40.27

Limited Potential to Emit

	PM	PM10	SO2	NOx	VOC	CO	Xylene	Toluene	Form- aldehyde	Ethyl- benzene	Toluene Diso- cyanate	Glycol Ethers	Hexa- methylene Diso- cyanate	Cumene	Chromium	Lead	Maganese	MIBK	MEK	Cobalt	Triethyl- amine	Trichloro- ethylene	Benzene	Dichloro- benzene	Hexane	Cadmium	Nickel	Total HAPs
Surface Coating	1.41	1.41	0.00	0.00	2.74	0.00	5.33	3.64	0.078	0.570	0.014	1.11	0.00	0.00	1.29	1.98	0.144	3.12	2.83	0.100	0.003	9.97	0.00000	0.00000	0.000	0.00000	0.00000	24.9
Vapor Degreasing	0.00	0.00	0.00	0.00	9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.000	0.00	0.000	0.00	0.00	0.000	0.000	0.00	0.00000	0.00000	0.000	0.00000	0.00000	0.00
Vapor Blasting	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.000	0.00	0.000	0.00	0.00	0.000	0.000	0.00	0.00000	0.00000	0.000	0.00000	0.00000	0.00
Anodizing	0.014	0.014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.01	0.00	0.000	0.00	0.00	0.000	0.000	0.00	0.00000	0.00000	0.000	0.00000	0.00000	0.01
Insignificant Combustion	0.027	0.107	0.008	1.40	0.077	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.00002	0.00001	0.000005	0.00	0.00	0.000	0.000	0.00	0.00003	0.00002	0.025	0.00002	0.00003	0.026
Insignificant Tank	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.0000	0.000	0.00	0.000	0.00	0.00	0.000	0.000	0.01	0.00000	0.00000	0.000	0.00000	0.00000	0.01
Total	3.86	3.94	0.008	1.40	12.81	1.18	5.33	3.64	0.079	0.570	0.014	1.11	0.00	0.00	1.30	1.98	0.144	3.12	2.83	0.100	0.003	9.98	0.00003	0.00002	0.025	0.00002	0.00003	24.94