

Thomas J.O'Neill  
Admetco, Inc.  
P.O.Box 10089  
Fort Wayne, IN 46850

Re: Registered Construction and Operation Status,  
003-12928-00213

Dear Thomas J.O'Neill:

The application from Admetco, Inc., received on November 02, 2000, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following Copper recycling operation, located at 7625 Vicksburg Pike, Fort Wayne, IN 46804, is classified as registered:

- (a) two (2) chop/grind machines, mechanical screening equipment, a mechanical shake and air separator and a cyclone.

The following conditions shall be applicable:

1. Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following:
  - (a) Opacity shall not exceed an average of forty percent (40%) 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 15 minutes (60 readings) in a 6-hour period 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.
2. Pursuant to 326 IAC 6-3-2 (Process Operations) the particulate matter (PM) from the Copper recycling process controlled by the Cyclone, handling up to 2100 pounds per hour of scrap metal shall not exceed 4.23 pounds per hour. This limit is determined by the following:

Interpolation and extrapolation 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:

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

The Cyclone shall be in operation with 99% or more control efficiency at all times the Copper recycling process is in operation, in order to comply with this limit.

This registration is a revised registration issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Management that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Data Section  
Office of Air Management  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, IN 46206-6015**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Management (OAM) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Management

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cc: File – Allen County  
Allen County Health Department  
Air Compliance – Jennifer Dorn  
Permit Tracking - Janet Mobley  
Technical Support and Modeling - Michele Boner  
Compliance Data Section - Karen Nowak

<b>Registration Annual Notification</b>
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This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3)

<b>Company Name:</b>	<b>Admetco, Inc.</b>
<b>Address:</b>	<b>7625 Vicksburg Pike</b>
<b>City:</b>	<b>Fort Wayne, IN 46804</b>
<b>Authorized individual:</b>	<b>Thomas J.O'Neill</b>
<b>Phone #:</b>	<b>(219) 432-7300</b>
<b>Registration #:</b>	<b>003-12928-00213</b>

I hereby certify that Admetco, Inc. is still in operation and is in compliance with the requirements of Registration 003-12928-00213.

<b>Name (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

# Indiana Department of Environmental Management Office of Air Management

## Technical Support Document (TSD) for a Registration

### Source Background and Description

**Source Name:** Admetco, Inc.  
**Source Location:** 7625 Vicksburg Pike, Fort Wayne, IN 46804  
**County:** Allen  
**SIC Code:** 5093  
**Operation Permit No.:** 003-12928-00213  
**Permit Reviewer:** Gurinder Saini

The Office of Air Management (OAM) has reviewed an application from Admetco, Inc. relating to the construction and operation of Copper recycling plant.

### Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) two (2) chop/grind machines, mechanical screening equipment, a mechanical shake and air separator controlled by Cyclone.

### Unpermitted Emission Units and Pollution Control Equipment

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

### Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Registration CP 003-3995-00213 issued on February 3, 1995

All conditions from previous approvals were incorporated into this permit. This permit supercedes the above-mentioned permit.

### Air Pollution Control Justification as an Integral Part of the Process

The company has submitted the following justification such that the Cyclone be considered as an integral part of the Copper recycling process:

- (a) It recycles the scrap metal from wiring discards.
- (b) It collects paper and plastic material so that it will not pose a threat to worker health. Without the cyclone it will be impossible for the workers to be present in the area.

IDEM, OAM has evaluated the justifications and agreed that the cyclone will be considered as an integral part of the Copper recycling process. Therefore, the permitting level will be determined using the potential to emit after the Cyclone. Operating conditions in the proposed permit will specify that this Cyclone shall operate at all times when the Copper recycling is in operation.

### Enforcement Issue

There are no enforcement actions pending.

**Stack Summary**

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
WC-1	Copper Recycling	10	2	27,000	Ambient

**Recommendation**

The staff recommends to the Commissioner that the construction and operation 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.

A complete application for the purposes of this review was received on November 02, 2000.

**Emission Calculations**

Admetco carried out a material study in October 1994. This study was for a duration of 69 hours.

Following observations were made:

Scrap material fed to the Cyclone: 281,570 pounds.

Particulate Matter emission from the Cyclone: 197 pounds

$$\text{Potential Emissions (tons per year)} = \frac{197 \text{ pounds}}{69 \text{ hours}} \times \frac{8760 \text{ hours}}{1 \text{ year}} \times \frac{1 \text{ ton}}{2000 \text{ pounds}}$$

$$= 12.5 \text{ tons per year}$$

**Potential To Emit of Source after Controls**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency.®

Pollutant	Potential To Emit (tons/year)
PM	12.5
PM-10	12.5
SO <sub>2</sub>	-
VOC	-
CO	-
NO <sub>x</sub>	-

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of Particulate Matter is greater than 5 tons per year and less than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-5.5 and a Registration will be issued.

- (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.

**County Attainment Status**

The source is located in Allen County.

Pollutant	Status ( <b>attainment, maintenance attainment, or unclassifiable; severe, moderate, or marginal nonattainment</b> )
PM-10	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Allen County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Allen County has been classified as attainment or unclassifiable for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

**Source Status**

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr.)
PM	12.5
PM10	12.5
SO <sub>2</sub>	-
VOC	-
CO	-
NO <sub>x</sub>	-

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

## Part 70 Permit Determination

### 326 IAC 2-7 (Part 70 Permit Program)

This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This status is based on all the air approvals issued to the source.

## Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

## State Rule Applicability - Entire Source

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

This source is located in Allen County and the potential to emit any criteria pollutant is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

### 326 IAC 5-1 (Visible Emissions Limitations)

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

- (a) Opacity shall not exceed an average of forty percent (40%) 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.

## State Rule Applicability - Individual Facilities

### 326 IAC 6-3-2 (Process Operations)

The particulate matter (PM) from the Copper recycling process controlled by the Cyclone, handling up to 2100 pounds per hour of scrap metal shall not exceed 4.23 pounds per hour. This limit is determined by the following:

Interpolation and extrapolation 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:

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

The controlled potential to emit from the Cyclone is 2.89 pounds per hour. Therefore this facility is in compliance with this rule.

The Cyclone shall be in operation with 99% or more control efficiency at all times the Copper recycling process is in operation, in order to comply with this limit.

## **Conclusion**

The construction and operation of this Copper recycling process shall be subject to the conditions of the attached proposed Registration 003-12928-00213.