INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: February 3, 2005

RE: Indalex, Inc / 041-20242-00019

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:
(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FN-REGIS.dot 1/10/05

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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February 3, 2005

Mr. Aaron Miller
Indalex, Inc.
P.O. Box 286
Connersville, Indiana 47331

Re: Registered Construction and Operation Status,
041-20242-00019

Dear Mr. Miller:

The application from Indalex, Inc. received on October 8, 2004 has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following clean aluminum extruding operation, with a maximum capacity of five (5) tons of aluminum billet per hour, to be located at 5120 N. Western Avenue, Connersville, Indiana, is classified as registered:

(a) One (1) natural gas-fired billet oven, identified as Unit 1, installed in 2001, exhausting at Stack 1, rated at 6.50 million British thermal units per hour.

(b) One (1) natural gas age oven, identified as Unit 2, installed in 2001, exhausting at Stack 2, rated at 7.50 million British thermal units per hour.

(c) One (1) forced air heater, identified as Unit 3, installed in 2001, exhausting at Stack 3, rated at 0.175 million British thermal units per hour.

(d) One (1) forced air heater, identified as Unit 4, installed in 2001, exhausting at Stack 4, rated at 0.074 million British thermal units per hour.

(e) Four (4) forced air heaters, identified as Units 5a, 5b, 5c, and 5d, installed in 2001, with heaters 5a and 5b exhausting at Stack 5A and heaters 5c and 5d exhausting at stack 5B, rated at 0.071 million British thermal units per hour, each.

(f) One (1) natural gas-fired age oven, identified as Unit 6, installed in 2004, exhausting at Stack 6, rated at 5.00 million British thermal units per hour.

(g) One (1) natural gas-fired billet oven, identified as Unit 7, installed in 1992, exhausting at Stack 7, rated at 3.30 million British thermal units per hour.

(h) One (1) natural gas-fired age oven, identified as Unit 8, installed in 1996, exhausting at Stack 8, rated at 6.00 million British thermal units per hour.

(i) One (1) forced air heater, identified as Unit 9, installed in 1999, exhausting at Stack 9, rated at 0.112 million British thermal units per hour.

(j) One (1) radiant heater, identified as Unit 10, installed in 1995, exhausting at Stack 15, rated at 0.010 million British thermal units per hour.

(k) Two (2) forced air heaters, identified as Units 11 and 12, installed in 1983, exhausting at Stacks 10 and 11, respectively, rated at 0.154 million British thermal units per hour, each.

(l) Three (3) forced air heaters, identified as Units 13, 14, and 15, installed in 1992, exhausting at Stacks 12, 13, and 14, respectively, rated at 0.160 million British thermal units per hour, each.

(m) Two (2) oxypropylene flame cutting operations, identified as FC, installed in 1992, total capacity: sixty (60) feet per hour of aluminum with a 0.25 inch thickness.

(n) Two (2) Caustic Tanks, identified as CT1 and CT2, installed in 1992, containing sodium hydroxide, capacity: 450 gallons, each.

(o) Two (2) gas fired age ovens, identified as Units 16 and 17, to be installed in December 2004, exhausting to Stacks 16 and 17, respectively, rated at 4.90 million British thermal units per hour, each.

The following condition shall be applicable:

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:

(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.

This registration is the first air approval 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 Quality 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 Quality
100 North Senate Avenue
Indianapolis, IN 46204

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 Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original Signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

BJP/MES

cc: File – Fayette County
Fayette County Health Department
Air Compliance – Jennifer Dorn
Permit Tracking
Compliance Data Section
Office of Enforcement
Administration and Development Section

Registration
Annual Notification

This form should be used to comply with the notification requirements under **326 IAC 2-5.1-2(f)(3) or 326 IAC 2-5.5-4(a)(3)**

Company Name:	**Indalex, Inc.**
Address:	**5120 N. Western Avenue, P.O. Box 286**
City:	**Connersville**
Authorized individual:	
Phone #:	
Registration #:	**R 041-20242-00019**

I hereby certify that **Indalex, Inc** is still in operation and is in compliance with the requirements of Registration R **041-20242-00019**.

Name (typed):
Title:
Signature:
Date:

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a New Source Construction and Registration

Source Background and Description

Source Name:	**Indalex, Inc.**
Source Location:	**5120 N. Western Avenue, Connersville, Indiana 47331**
County:	**Fayette**
SIC Code:	**3354**
Operation Permit No.:	**R 041-20242-00019**
Permit Reviewer:	**Brian J. Pedersen**

The Office of Air Quality (OAQ) has reviewed an application from Indalex, Inc. relating to the construction and operation of a clean aluminum extruding source.

Permitted Emission Units and Pollution Control Equipment

There are no permitted emission units or pollution control equipment operating at this source during this review process.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted emission units with a maximum capacity of five (5) tons of aluminum billet per hour.

(a) One (1) natural gas-fired billet oven, identified as Unit 1, installed in 2001, exhausting at Stack 1, rated at 6.50 million British thermal units per hour.

(b) One (1) natural gas age oven, identified as Unit 2, installed in 2001, exhausting at Stack 2, rated at 7.50 million British thermal units per hour.

(c) One (1) forced air heater, identified as Unit 3, installed in 2001, exhausting at Stack 3, rated at 0.175 million British thermal units per hour.

(d) One (1) forced air heater, identified as Unit 4, installed in 2001, exhausting at Stack 4, rated at 0.074 million British thermal units per hour.

(e) Four (4) forced air heaters, identified as Units 5a, 5b, 5c, and 5d, installed in 2001, with heaters 5a and 5b exhausting at Stack 5A and heaters 5c and 5d exhausting at Stack 5B, rated at 0.071 million British thermal units per hour, each.

(f) One (1) natural gas-fired age oven, identified as Unit 6, installed in 2004, exhausting at Stack 6, rated at 5.00 million British thermal units per hour.

(g) One (1) natural gas-fired billet oven, identified as Unit 7, installed in 1992, exhausting at Stack 7, rated at 3.30 million British thermal units per hour.

(h) One (1) natural gas-fired age oven, identified as Unit 8, installed in 1996, exhausting at Stack 8, rated at 6.00 million British thermal units per hour.

(i) One (1) forced air heater, identified as Unit 9, installed in 1999, exhausting at Stack 9, rated at 0.112 million British thermal units per hour.

(j) One (1) radiant heater, identified as Unit 10, installed in 1995, exhausting at Stack 15, rated at 0.010 million British thermal units per hour.

(k) Two (2) forced air heaters, identified as Units 11 and 12, installed in 1983, exhausting at Stacks 10 and 11, respectively, rated at 0.154 million British thermal units per hour, each.

(l) Three (3) forced air heaters, identified as Units 13, 14, and 15, installed in 1992, exhausting at Stacks 12, 13, and 14, respectively, rated at 0.160 million British thermal units per hour, each.

(m) Two (2) oxypropylene flame cutting operations, identified as FC, installed in 1992, total capacity: sixty (60) feet per hour of aluminum with a 0.25 inch thickness.

(n) Two (2) Caustic Tanks, identified as CT1 and CT2, installed in 1992, containing sodium hydroxide, capacity: 450 gallons, each.

New Emission Units and Pollution Control Equipment

The application includes information relating to the construction and operation of the following equipment:

(o) Two (2) gas-fired age ovens, identified as Units 16 and 17, to be installed in December 2004, exhausting to Stacks 16 and 17, respectively, rated at 4.90 million British thermal units per hour, each.

Existing Approvals

The source has no prior operating permits.

Enforcement Issue

(a) IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled “Unpermitted Emission Units and Pollution Control Equipment”.

(b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (^{o}F)
1	Heating of Aluminum Billets	40	0.67	4,800	700
2	Aging of Aluminum Extrusions	40	1.5	45,000	400
3	Heater	11	0.67	NA	NA
4	Heater	40	0.33	NA	170

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (^{o}F)
5A	Heater	22	0.5	NA	170
5B	Heater	22	0.5	NA	170
6	Aging of Aluminum Extrusions	18	1.5	NA	400
7	Heating of Aluminum Billets	24	0.67	NA	700
8	Aging of Aluminum Extrusions	24	1.0	NA	400
9	Heater	24	0.33	NA	170
10	Heater	24	0.67	NA	NA
11	Heater	24	0.67	NA	NA
12	Heater	24	0.67	NA	NA
13	Heater	24	0.67	NA	NA
14	Heater	24	0.67	NA	NA
15	Heater	22	0.67	NA	NA
16	Aging of Aluminum Extrusions	40	1.5	NA	NA
17	Aging of Aluminum Extrusions	40	1.5	NA	NA

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 October 8, 2004.

Emission Calculations

See Pages 1 and 3 of Appendix A of this document for detailed emission calculations

Potential to Emit of the Source Before 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, inclulding 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/yr)
PM	0.586
PM_{10}	1.58
SO_2	0.104
VOC	0.954
CO	14.6
NO_x	17.3

HAPs	Potential to Emit (tons/yr)
Benzene	0.0004
Dichlorobenzene	0.0002
Formaldehyde	0.013
Hexane	0.312
Toluene	0.001
Lead	0.0001
Cadmium	0.0002
Chromium	0.0002
Manganese	0.0002
Nickel	0.0004
Total	0.327

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants are less than 25 tons per year and NO_X is greater than ten (10) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-5.5. A registration will be issued.

(b) 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 Fayette County.

Pollutant	Status
PM10	Attainment
SO2	Attainment
NO_2	Attainment
1-Hour Ozone	Attainment
8-Hour Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and nitrogen oxides (NO_X) 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_X emissions are considered when evaluating the rule applicability relating to ozone. Fayette County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_X emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

(b) Fayette County has been classified as attainment or unclassifiable in Indiana for all 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 for the source section.

(c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 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.

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):

Pollutant	Emissions (tons/yr)
PM	0.503
PM_{10}	1.25
SO_2	0.078
VOC	0.716
CO	10.94
NO_x	13.03

Pollutant	Emissions (tons/yr)
Single HAP (Hexane)	0.234
Combination HAPs	0.245

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 greater and it is not in one of the 28 listed source categories.

Proposed Modification (Two Gas Fired Age Ovens, Units 16 and 17)

PTE from the proposed modification (based on 8760 hours of operation per year at rated capacity including enforceable emission control and production limit where applicable):

Pollutant	PM (ton/yr)	PM_{10} (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)
Proposed Modification	0.082	0.330	0.026	0.237	3.61	4.30
PSD Threshold Level	250	250	250	250	250	250

This modification to an existing minor stationary source is not major because the emission increase is less than the PSD major source levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit R 041-20242-00019, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than one hundred (100) tons per year,

(b) a single hazardous air pollutant (HAP) is less than ten (10) tons per year, and

(c) combination of HAPs is less than twenty five (25) tons per year.

This status is based on the application submitted by the company.

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) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63 Subpart RRR Secondary Aluminum Production because this aluminum extrusion facility is not considered a secondary aluminum

production facilty because they heat not melt clean charge and it is not a major source of HAPs.

State Rule Applicability – Entire Source

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_X, 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 5-1 (Opacity Limitations)

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 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 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 2-2 (Prevention of Significant Deterioration (PSD))

The unrestricted potential emissions of each attainment criteria pollutant are less than 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 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of this aluminum extruding source will emit less than ten (10) tons per year of a single HAP and less than twenty five (25) tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

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

Pursuant to 326 IAC 6-3-1(b)(14), manufacturing processes that have potential particulate emissions less than 0.551 pounds per hour are exempt. Since the two (2) oxypropylene flame cutting operations have potential particulate emissions of 0.058, total, this rule does not apply.

326 IAC 7-1 (Sulfur Dioxide Limitations)

Pursuant to 326 IAC 7-1, all combustion units at this source do not have the combined potential to emit twenty five (25) tons per year or ten (10) pounds per hour of SO_2. Therefore, this rule does not apply.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

Since this source is not located in Clark, Lake, Floyd or Porter County and the tanks do not contain any VOC's, rule 326 IAC 8-9 does not apply.

Conclusion

The construction and operation of this clean aluminum extruding source shall be subject to the conditions of the New Source Construction and Registration 041-20242-00019.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler

Company Name: Indalex, Inc.
Address City IN Zip: 5120 N. Western Avenue, Connersville, Indiana 47331
Registration Number: 041-20242
Plt ID: 041-00019
Reviewer: Brian J. Pedersen
Application Date: October 8, 2004

Unit	Number of Units	Total Heat Input Capacity (MMBtu/hr)
Unit 1	1	6.50
Unit 2	1	7.50
Unit 3	1	0.175
Unit 4	1	0.074
Units 5a, 5b ,5c, 5d	4	0.284
Unit 6	1	5.00
Unit 7	1	3.30
Unit 8	1	6.00

Unit	Number of Units	Total Heat Input Capacity (MMBtu/hr)
Unit 9	1	0.112
Unit 10	1	0.010
Units 11 and 12	2	0.308
Units 13 and 14	2	0.320
Unit 15	1	0.160
Units 16 and 17	2	9.82
Total Heat Input Capacity (MMBtu/hr)		**39.6**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
39.6	347

	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	0.330	1.32	0.104	17.3	0.954	14.6

*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

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
See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler
HAPs Emissions

Company Name: **Indalex, Inc.**
Address City IN Zip: **5120 N. Western Avenue, Connersville, Indiana 47331**
Registration Number: **041-20242**
Plt ID: **041-00019**
Reviewer: **Brian J. Pedersen**
Date: **October 8, 2004**

	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	0.0004	0.0002	0.013	0.312	0.001

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	
Emission Factor in lb/MMcf	0.0005	0.0011	0.0014	0.0004	0.0021	**Total**
Potential Emission in tons/yr	0.0001	0.0002	0.0002	0.0001	0.0004	**0.327**

Methodology is the same as page 1.

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
Welding and Thermal Cutting

Company Name: **Indalex, Inc.**
Address City IN Zip: **5120 N. Western Avenue, Connersville, Indiana 47331**
Registration Number: **041-20242**
Plt ID: **041-00019**
Reviewer: **Brian J. Pedersen**
Application Date: **October 8, 2004**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
WELDING				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Submerged Arc	0	0		0.036	0.011			0.000	0.000	0.000	0	0.000
Metal Inert Gas (MIG)(carbon steel)	0	0		0.0055	0.0005			0.000	0.000	0.000	0	0.000
Stick (E7018 electrode)	0	0		0.0211	0.0009			0.000	0.000	0.000	0	0.000
Tungsten Inert Gas (TIG)(carbon steel)	0	0		0.0055	0.0005			0.000	0.000	0.000	0	0.000
Oxyacetylene(carbon steel)	0	0		0.0055	0.0005			0.000	0.000	0.000	0	0.000
	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
FLAME CUTTING				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxypropylene	2	0.250	12.0	0.1622	0.0005	0.0001	0.0003	0.058	0.000015	0.00000001	0.000	0.00001
Oxymethane	0	0	0	0.0815	0.0002		0.0002	0.000	0.000	0.000	0.000	0.000
Plasma**	0	0	0	0.0039				0.000	0.000	0.000	0.000	0.000
EMISSION TOTALS												
Potential Emissions lbs/hr								0.058	0.00001	0.0000	0.0000	0.00001
Potential Emissions lbs/day								1.401	0.0004	0.0000	0.0000	0.0004
Potential Emissions tons/year								0.256	0.0001	0.0000	0.0000	0.0001

METHODOLOGY

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.