



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 19, 2007
RE: Dekko Technologies, LLC / 085-23491-00073
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

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 from 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
FNPER-AM.dot 03/23/06



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 46204-2251
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February 19, 2007

Mr. Juan Martinez
Safety and Environmental Manager
Group Dekko Technologies, LLC
6928N 400E
Kendallville, Indiana 46755

Re: 085-23491-00073
First Notice Only change to
Registered Construction and Operation Status,
CP 085-7627-00073

Dear Mr. Martizez:

The application from Heaters Engineering, Inc., received on December 13, 1996, was reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it was determined that the following heating devices manufacturing operation, located at 8659 East Backwater Road in North Webster, Indiana, is classified as registered. On August 9, 2006 an application was received requesting a transfer of ownership to Dekko Technologies, LLC. Pursuant to the provisions of 326 IAC 2-5.5-6(d)(3), the permit is hereby revised and the following heating devices manufacturing source remains as registered:

Plant 4 processes which include:

- (a) wire cutting with a throughput of 0.3 pounds of wire per hour,
- (b) injection molding with a production rate of 4.468 pounds of molded parts per hour,
- (c) heating element fabrication with a production rate of 10.071 pounds of heating elements per hour,
- (d) cold cleaner degreaser with a usage rate of 0.67 gallons of mineral spirits per day.

Plant 19 processes which include:

- (a) wire cutting with a throughput of 1.104 pounds of wire per hour,
- (b) injection molding with the production rate of 18.195 pounds of molded parts per hour,
- (c) epoxy molding with a production rate of 6.571 pounds of molded parts per hour,
- (d) printing with a feed rate of 0.1 pounds of polyester sheets per hour,
- (e) cold cleaner degreaser with a usage rate of 1.83 gallons of mineral spirits per day.

The following conditions 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), the visible emissions 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.

Pursuant to 326 IAC 2-5.5-1, the particulate matter emissions from all grinding, blasting, and sawing shall not exceed 5.7 pounds per hour.

Pursuant to 326 IAC 6-3-2(e)(2), particulate matter emissions for processes with a process weight rate of equal to or less than 100 lb/hr are limited to 0.551 lbs/hr.

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator shall:

- (1) equip the cleaner with a cover,
- (2) equip the cleaner with a facility for draining cleaned parts,
- (3) close the degreaser cover whenever parts are being handled in the cleaner,
- (4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases,
- (5) provide a permanent, conspicuous label summarizing the operation requirements,
- (6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

This registration is the second 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 46204-2251**

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

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

AY/EVP

cc: File - Kosciusko County
Kosciusko County Health Department
Air Compliance – Doyle Houser
IDEM Northern Regional Office
Permit Tracking

Registration Annual Notification

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

Company Name:	Dekko Technologies LLC
Address:	8659 East Backwater Road
City:	North Webster
Authorized individual:	Juan Martinez
Phone #:	(260) 347-0700
Registration #:	085-7627-00073

I hereby certify that Dekko Technologies LLC is still in operation and is in compliance with the requirements of Registration 085-7627-00073.

Name:	Juan Martinez
Title:	Safety and Environmental Manager
Signature:	
Date:	

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

Technical Support Document (TSD) for an Exemption

Source Background and Description

Source Name:	Dekko Technologies LLC
Source Location:	8701/8661 E. Backwater Road, North Webster, IN 46555
County:	Koskiusko
SIC Code:	3643
Exemption No.:	085-23491-00073
Permit Reviewer:	Adeel Yousuf / EVP

The Office of Air Quality (OAQ) has reviewed an application from Heaters Engineering, Inc. requesting a transfer of ownership to Dekko Technologies LLC.

Source History

This source, originally known as Heaters Engineering, Inc. located at 8697 East Backwater Road, North Webster, Indiana, was issued a Registration Construction and Operation Status No. 085-7627-00073 on March 4, 1997 for the heating devices manufacturing operation. On August 9, 2006, an application was received requesting a transfer of ownership and name change to Dekko Technologies, LLC. During this permit review, it has been determined that the source has relocated within the same industrial complex and consists of two plants, adjacently located at 8701 and 8661 E. Backwater Road, North Webster, Indiana. This source has also removed all of the previously Registered emission units and this approval contains all the currently existing emission units. Due to changes at the source, the status of this source will change from Registration to Exemption.

Emission Units and Pollution Control Equipment

The source consists of the following emission units and pollution control devices during this review process:

- (a) One (1) plastic injection molding machine, constructed in 2001, identified as M1, with a maximum capacity of 750 lb/hr of resin and exhausting inside the building.
- (b) One (1) plastic injection molding machine, constructed in 2001, identified as M2, with a maximum capacity of 750 lb/hr of resin and exhausting inside the building.
- (c) One (1) plastic injection molding machine, constructed in 2001, identified as M3 with a maximum capacity of 750 lb/hr of resin.
- (d) One (1) electric powered chiller, constructed in 2001, used for cooling water with no emissions.
- (e) Six (6) coating towers/pulleys identified as Coating Tower #1 through #6, installed in 2001, each with a maximum coating capacity of 1500 ft/hr, using the dip coating method by dipping the wire in a 55 gallon open barrel container, and exhausting inside the building.

- (f) Two (2) conair hopper loaders, constructed in 2001, loading plastic resin in pellet form, with a maximum capacity of 2.0 lb/hr and exhausting inside the building.
- (g) Forty-two (42) continuous servers/winders, constructed in 2001, used to wrap a stainless steel wire around a core, each with a maximum winding capacity of 400 ft/hr. This operation produces no air emissions.
- (h) One (1) metal surface grinder, constructed in 2001, with a maximum capacity of 100.0 lb/hr and exhausting inside the building.
- (i) Three (3) electric powered dryers with no emissions (constructed in 2001).
- (j) Four (4) dual head servers/winders, constructed in 2001, used to wrap a stainless steel wire around a core, with total maximum winding capacity of 208 ft/hr. This operation produces no air emissions.
- (k) One (1) electric powered forklift (acquired in 2001).
- (l) One (1) electric powered hopper dryer (constructed in 2001).
- (m) One (1) welding operation, constructed in 1997, with a maximum steel wire usage capacity of 10.0 lb/hr.
- (n) One (1) metal parts milling/grinding operation, constructed in 1997, with a maximum capacity of 1.0 lb/hr.
- (o) One (1) lathe machine with a maximum capacity of 1.0 lb/hr (constructed in 1997).
- (p) One (1) water cooling unit identified as Micropulse Double Head with no emissions (constructed in 2001).
- (q) One (1) electric powered oven with no emissions (constructed in 2001).
- (r) Eight (8) payoff/takeup machines used to collect the payoff from the dip coated wire, equipped with one (1) electric powered dryer (constructed in 2001). This operation produces no emissions.
- (s) One (1) wire spooling operation with no emissions (constructed in 2001).
- (t) One (1) grinding operation, identified as MM#4, constructed in 1997, with maximum grinding capacity of 50.0 lb/hr.
- (u) One (1) spot welding operation with maximum welding capacity of 10.0 lb/hr (constructed in 1997).
- (v) Four (4) payoff/takeup machines used to collect the payoff from the dip coated wire (constructed in 1997). This operation produces no emissions.
- (w) Two (2) continuous run winders used to wrap a stainless steel wire around a core, with total maximum winding capacity of 208 ft/hr (constructed in 2007). This operation produces no air emissions.
- (x) One (1) drill press, constructed in 1997, used to perforate metal and plastic with maximum capacity of 2.0 lb/hr.

Existing Approvals

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

Registration Construction and Operation Status 085-7627-00073, issued on March 4, 1997.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the 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.

An application for the purposes of this review was received on August 9, 2006 and additional information was received on December 13, 2006, January 26, 2007, and January 30, 2007.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (Appendix A, pages 1 through 4).

Potential To Emit

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/yr)
PM	0.79
PM-10	0.79
SO ₂	0.00
VOC	0.01
CO	0.00
NO _x	0.00

HAPs	Potential to Emit (tons/yr)
Single HAP	0.09 (Chromium)
Total	0.14

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of pollutants are less than the levels listed in 326 IAC 2-1.1-3(d)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3. An exemption will be issued.

- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3. An exemption will be issued.

County Attainment Status

The source is located in Kosciusko County.

Pollutant	Status
PM-10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NO ₂	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 emissions and NOx emissions are considered when evaluating the rule applicability relating to ozone. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx 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) Kosciusko County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (c) Kosciusko County has been classified as attainment or unclassifiable for all other 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.
- (d) 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 applicability.
- (e) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

Source Status

Existing Source PSD 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	0.79
PM-10	0.79
SO ₂	0.00
VOC	0.01
CO	0.00
NO _x	0.00
Single HAP	0.09
Combination HAPs	0.15

- (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 greater and it is not in one of the 28 listed source categories.
- (b) These emissions were based on emission calculations derived from information provided in the application submitted by Dekko Technologies, LLC received on August 9, 2006 with additional information received on December 13, 2006, January 26, 2007, and January 30, 2007.

Part 70 Permit Determination

This existing source, including the emissions from this permit 085-23491-00079, is still 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 per year.

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 (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to this source.

State Rule Applicability - Entire Source

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

This source is not subject to this rule because potential uncontrolled emissions of each criteria pollutant is less than 250 tons per year. This source is also not one of the 28 listed source categories. Therefore, this source is not subject to the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The potential emissions from each emission units are less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake or Porter counties, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does 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 8-1-6 (Volatile Organic Compounds)

This source is not subject to this rule. This rule applies to facilities constructed after January 1980, which have potential VOC emissions of 25 tons or more per year, and are not regulated by any other provisions of 326 IAC 8. All the facilities at this source were constructed after January 1980, but each has potential VOC emissions of less than 25 tons per year, therefore, this rule does not apply.

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

Pursuant to 326 IAC 6-3-1(b)(9), each of the welding operation is exempt from the requirements of 326 IAC 6-3-2, because each welding operation consumes less than 625 pounds of rod or wire per day.

Pursuant to 326 IAC 6-3-1(b)(14), each operation (Metal Surface Grinder, MM#4, Lathe Machine, Milling/Grinding, Drill Press, and two (2) Conair Hopper Loaders) is exempt from the requirements of 326 IAC 6-3-2, because each operation has potential emission of particulate less than 0.551 lb/hr.

Conclusion

The operation of this heating devices manufacturing facility shall be subject to the conditions of the attached proposed Exemption 085-23491-00073.

Appendix A: Emission Calculations

Company Name: Dekko Technologies LLC
Address City IN Zip: 8701/8661 E. Backwater Road, North Webster, IN 46555
Permit No.: 085-23491-00073
Reviewer: Adeel Yousuf / EVP
Date: January 23, 2007

Uncontrolled Potential Emissions (tons/year)				
Emissions Generating Activity				
Pollutant	Molding/Grinding/Loading	Surface Coating	Welding	TOTAL
PM	0.13	0.00	0.66	0.79
PM10	0.13	0.00	0.66	0.79
SO2	0.00	0.00	0.00	0.00
NOx	0.00	0.00	0.00	0.00
VOC	0.01	0.00	0.00	0.01
CO	0.00	0.00	0.00	0.00
total HAPs	0.00	0.00	0.18	0.14
worst case single HAP	0.00	0.00	0.09 (Chromium)	0.09 (Chromium)
Total emissions based on rated capacity at 8,760 hours/year.				
Controlled Potential Emissions (tons/year)				
Emissions Generating Activity				
Pollutant	Molding/Grinding/Loading	Surface Coating	Welding	TOTAL
PM	0.13	0.00	0.66	0.79
PM10	0.13	0.00	0.66	0.79
SO2	0.00	0.00	0.00	0.00
NOx	0.00	0.00	0.00	0.00
VOC	0.01	0.00	0.00	0.01
CO	0.00	0.00	0.00	0.00
total HAPs	0.00	0.00	0.18	0.18
worst case single HAP	0.00	0.00	0.09 (Chromium)	(Hexane) 0.30

Total emissions based on rated capacity at 8,760 hours/year, after control.

**Appendix A: Emissions Calculations
VOC and Particulate**

Six (6) coating towers/pulleys identified as Coating Tower #1 through #6

Company Name: Dekko Technologies LLC
 Address City IN Zip: 8701/8661 E. Backwater Road, North Webster, IN 46555
 Permit No.: 085-23491-00073
 Reviewer: Adeel Yousuf / EVP
 Date: January 23, 2007

Six (6) coating towers/pulleys identified as Coating Tower #1 through #6

Process/Coating ID	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/ft)	Maximum (ft/hour)	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 (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Synthetic Resin	10.00	76.00%	76.00%	0.00%	75.00%	26.00%	0.50000	2500.000	0.00	0.00	0.000000	0.000000	0.000000	0.00	0.00	100%

State Potential Emissions											0.00	0.00	0.00	0.00		
Controlled Potential Emissions																
											Control Efficiency:		Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr
											VOC	PM				
Total Controlled Potential Emissions:											0.00%	0.00%	0.00	0.00	0.00	0.00

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)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 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)
 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)
 Total = Sum of worst case coatings in each booth

Appendix A: Welding and Thermal Cutting

Company Name: Dekko Technologies LLC
 Address City IN Zip: 8701/8661 E. Backwater Road, North Webster, IN 46555
 Permit No.: 085-23491-00073
 Reviewer: Adeel Yousuf / EVP
 Date: January 23, 2007

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS * (lb pollutant / lb electrode)				EMISSIONS (lb/hr)				TOTAL HAPS (lb/hr)
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
Stick Welding (Stainless Steel)	1	10	0.0150	0.0012	0.0010	0.0020	0.1500	0.0120	0.0100	0.0200	0.042
Spot Welding	1	10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
EMISSION TOTALS							PM = PM10	Mn	Ni	Cr	Total HAPs
Potential Emissions lbs/hr							0.15	0.01	0.00	0.02	0.03
Potential Emissions lbs/day							3.60	0.29	0.00	0.48	0.77
Potential Emissions tons/year							0.66	0.05	0.00	0.09	0.14

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column. Consult AP-42 or other reference for different electrode types.

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

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/day x 1 ton/2,000 lbs.

Plasma cutting emission factors are from the American Welding Society study published in Sweden (March 1994).

Welding and other flame cutting emission factors are from an internal training session document.

See AP-42, Chapter 12.19 for additional emission factors for welding.