



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: March 6, 2008
RE: Hurst Manufacturing / 051-26062-00048
FROM: Matthew Stuckey, Deputy Branch 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, Suite N 501E, 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.dot12/3/07



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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
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Mr. Randall Floyd
Hurst Manufacturing
1551 East Broadway
Princeton, IN 47670

March 6, 2008

Re: Registration Notice-Only Change
No. R051-26062-00048

Dear Mr. Floyd:

Hurst Manufacturing was issued a Registration No. R051-22457-00048 on March 10, 2006 for a stationary electric motor manufacturing plant located at 1551 East Broadway, Princeton, Indiana 47670. On February 7, 2008, the Office of Air Quality (OAQ) received an application from the source requesting that the registration be updated to indicate that the source has removed the black oxide operations and six space heaters from service. This change to the registration is considered a notice-only change pursuant to 326 IAC 2-5.5-6(d)(2).

In addition, IDEM has begun implementing a new procedure and will no longer list the name or title of the Authorized Individual (AI) in registrations. Pursuant to 326 IAC 2-5.5-6, the registration is hereby revised as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

...

(b) One (1) paint booth, identified as PB 100 (previously identified as #74), used for coating metal motor coils, with a maximum usage rate of 0.51 gallons of coating per hour, using air spray guns, with particulate emissions controlled by dry filters, and exhausting at stack #100. This unit was constructed in 1994. ~~Note: this booth is being relocated within the plant.~~

...

~~(h) One (1) black oxide operations, identified as EU #80, consisting of dip tanks for coating metal parts, with a maximum usage rate of 0.27 gallons per hour. This operation was installed in 1994.~~

(ih) One (1) mop water evaporator unit used for processing used oils, with a maximum process rate of 10 gallons of mop water per hour. Note: The used oils are disposed off-site.

(ji) ~~Forty-three (43)~~ **Thirty-seven (37)** natural gas-fired space heaters, with a maximum combined heat input capacity of ~~4.023.83~~ **MMBtu** per hour. These units were installed in 1994.

(kj) One (1) varnishing line, identified as EU 104, with a maximum usage rate of 0.60 gallons per hour, using trickling method for varnish application and exhausting at stack #81. This ~~will be~~ **unit was** constructed in 2006.

...

The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration and calculation tables.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Brian Williams, at (800) 451-6027, press 0 and ask for Brian Williams or extension 4-5375, or dial (317) 234-5375.

Sincerely/Original Signed By:

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

IC/BMW

Attachment: Revised Registration and Calculation Tables

cc: File - Gibson County
Gibson County Health Department
Air Compliance Section
IDEM Southwest Regional Office
Permit Tracking
Compliance Data Section
Permits Administrative and Development
Billing, Licensing and Training Section



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REGISTRATION OFFICE OF AIR QUALITY

**Hurst Manufacturing
1551 East Broadway
Princeton, Indiana 47670**

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 051-22457-00048	
Issued by/Original signed by: Kathy Moore, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 10, 2006
Registration Notice-Only Change No. 051-26062-00048	
Issued by/Original Signed By: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 6, 2008

SECTION A

SOURCE SUMMARY

This registration 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 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary electric motor manufacturing plant.

Source Address:	1551 East Broadway Street, Princeton, Indiana 47670
Mailing Address:	1551 East Broadway Street, Princeton, Indiana 47670
General Source Phone Number:	(812) 385-2564
SIC Code:	3621
County Location:	Gibson County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) paint booth, identified as PB 101 (previously identified as #73), used for coating metal motor coils, with a maximum usage rate of 0.37 gallons per hour, using air spray guns, with particulate emissions controlled by dry filters, and exhausting at stack #73. This unit was installed in 1994.
- (b) One (1) paint booth, identified as PB 100 (previously identified as #74), used for coating metal motor coils, with a maximum usage rate of 0.51 gallons of coating per hour, using air spray guns, with particulate emissions controlled by dry filters, and exhausting at stack #100. This unit was constructed in 1994.
- (c) One (1) powder coating booth, identified as PB 102, with a maximum throughput rate of 60 pounds per day, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was installed in 1980.
- (d) One (1) injection molding unit, with a maximum usage rate of 0.0015 pounds of mold release agent per hour. This unit was installed in 1960.
- (e) One (1) die-cast operations, used for die-casting zinc cap ends for motors, with a maximum throughput rate of 60 pounds of zinc alloys per hour. This process was installed in 1994.
- (f) One (1) metal parts hobbing and stamping process, utilizing an oil-based machining fluid with a maximum usage rate of 1.37 pounds per hour. This process was installed in 1965.
- (g) Twelve (12) plunger type containers, located throughout the plant, each with a maximum capacity of one (1) gallon, used to dispense a non-halogenated solvent onto cloths for production cleaning, collectively identified as EU 103, with a maximum throughput rate of 0.92 pounds per hour. This operation was installed in 1980.
- (h) One (1) mop water evaporator unit used for processing used oils, with a maximum process rate of 10 gallons of mop water per hour. Note: The used oils are disposed off-site.

- (i) Thirty-seven (37) natural gas-fired space heaters, with a maximum combined heat input capacity of 3.83 MMBtu per hour. These units were installed in 1994.
- (j) One (1) varnishing line, identified as EU 104, with a maximum usage rate of 0.60 gallons per hour, using trickling method for varnish application and exhausting at stack #81. This unit was constructed in 2006.

SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this registration 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 2-1.1-1) shall prevail.

B.2 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

B.3 Registration Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM, the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to Registration No. 051-22457-00048 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 registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003

Indianapolis, IN 46204-2251

- (c) The notification 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.

B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), 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.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

C.1 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 registration:

- (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.

C.2 Fugitive Dust Emissions [326 IAC 6-4]

The Registrant 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).

SECTION D.1

OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) paint booth, identified as PB 101 (previously identified as #73), used for coating metal motor coils, with a maximum usage rate of 0.37 gallons per hour, using air spray guns, with particulate emissions controlled by dry filters, and exhausting at stack #73. This unit was installed in 1994.
- (b) One (1) paint booth, identified as PB 100 (previously identified as #74), used for coating metal motor coils, with a maximum usage rate of 0.51 gallons of coating per hour, using air spray guns, with particulate emissions controlled by dry filters, and exhausting at stack #100. This unit was constructed in 1994.
- (c) One (1) powder coating booth, identified as PB 102, with a maximum throughput rate of 60 pounds per day, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was installed in 1980.
- (d) One (1) injection molding unit, with a maximum usage rate of 0.0015 pounds of mold release agent per hour. This unit was installed in 1960.
- (e) One (1) die-cast operations, used for die-casting zinc cap ends for motors, with a maximum throughput rate of 60 pounds of zinc alloys per hour. This process was installed in 1994.
- (f) One (1) metal parts hobbing and stamping process, utilizing an oil-based machining fluid with a maximum usage rate of 1.37 pounds per hour. This process was installed in 1965.
- (g) Twelve (12) plunger type containers, located throughout the plant, each with a maximum capacity of one (1) gallon, used to dispense a non-halogenated solvent onto cloths for production cleaning, collectively identified as EU 103, with a maximum throughput rate of 0.92 pounds per hour. This operation was installed in 1980.
- (h) One (1) mop water evaporator unit used for processing used oils, with a maximum process rate of 10 gallons of mop water per hour. Note: The used oils are disposed off-site.
- (i) Thirty-seven (37) natural gas-fired space heaters, with a maximum combined heat input capacity of 3.83 MMBtu per hour. These units were installed in 1994.
- (j) One (1) varnishing line, identified as EU 104, with a maximum usage rate of 0.60 gallons per hour, using trickling method for varnish application and exhausting at stack #81. This unit was constructed in 2006.

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere VOC from the two (2) paint booths (identified as PB 100 and PB 101), in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, delivered to the applicator for forced warm air dried coatings.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

To render the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) not applicable to the one (1) varnishing line (identified as EU 104), the VOC usage for the varnishing line shall be less than 15.0 pounds per day.

Compliance with this limit renders the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) not applicable.

D.1.3 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (f), all solvents sprayed from the application equipment of the two (2) paint booths (identified as PB 100 and PB 101) during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

D.1.4 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations from Manufacturing Processes), the particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) and 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. Therefore, the powder paint booth (identified as PB 103) shall not exceed 0.551 pounds per hour. The dust collector shall be in operation at all times when the powder paint booth is in operation to comply with this rule.

Compliance Determination Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC content and usage limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) 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.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.6 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records of the VOC content of each coating material and solvent used, less water.
- (b) To document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below. These records shall be complete and sufficient to establish compliance with Condition D.1.2:
 - (1) Records of the amount of coating material and solvent used on a daily basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used, and solvent usage records shall differentiate between those added to coatings and those used as cleanup solvent;
 - (2) The daily cleanup solvent usage; and
 - (3) The total VOC usage for each day.

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

**REGISTRATION
ANNUAL NOTIFICATION**

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

Company Name:	Hurst Manufacturing
Address:	1551 East Broadway Street
City:	Princeton, Indiana 47670
Phone Number:	(812) 385-2564
Registration No.:	051-22457-00048

I hereby certify that Hurst Manufacturing is :

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No. 051-22457-00048.
- not in compliance with the requirements of Registration No. 051-22457-00048.

I hereby certify that Hurst Manufacturing is :

Authorized Individual (typed):
Title:
Signature:
Phone Number:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

Company Name: Hurst Manufacturing
Address City IN Zip: 1551 East Broadway, Princeton, Indiana 47670
Permit Number: 051-26062-00048
Reviewer: Brian Williams

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

3.829

33.5

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.03	0.13	0.010	1.68	0.092	1.41

*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

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	3.522E-05	2.013E-05	1.258E-03	3.019E-02	5.702E-05

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	8.386E-06	1.845E-05	2.348E-05	6.373E-06	3.522E-05

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
Summary of Emissions**

Company Name: Hurst Manufacturing
Address City IN Zip: 1551 East Broadway, Princeton, Indiana 47670
Permit Number: 051-26062-00048
Reviewer: Brian Williams

Potential to Emit (tons/year)							
Process	PM	PM10	SO₂	NOx	VOC	CO	HAPs
Potential to Emit of Entire Source (Before Modification)	12.6	12.7	0.01	1.73	24.2	1.45	2.63
Black Oxide Operations (Removed)	0.0	0.0	0.0	0.0	-3.19	0.0	0.0
Six Space Heaters (Removed)	0.00	0.00	0.00	-0.08	-0.01	-0.07	0.00
Revised Potential to Emit After Issuance	12.6	12.7	0.009	1.65	21.0	1.38	2.629