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Michael R. Pence Governor Thomas W. Easterly

Commissioner

TO: Interested Parties / Applicant

DATE: June 13, 2013

RE: The Crown Group Co. Ft. Wayne Plant / 003-33241-00159

FROM: Matthew Stuckey, 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
- 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 6/13/2013







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Michael R. Pence Governor Thomas W. Easterly Commissioner

Mr. Carl Vogt The Crown Group Co. Fort Wayne Plant 2111 Walter Reuther Warren, MI 48091

June 13, 2013

Re: 003-33241-00159

First Administrative Amendment to

R003-17677-00159

Dear Mr. Vogt:

Crown Group, Fort Wayne Plant was issued a Registration No. R003-17677-00159 on June 18, 2003 for a stationary automotive parts surface coating operation located at 4301 Engle Rd., Fort Wayne, Indiana 46601. On May 23, 2013, the Office of Air Quality (OAQ) received an application from the source requesting a change in ownership and a change in company name. Pursuant to 326 IAC 2-5.5-6(d)(3), this change to the registration is considered an administrative amendment because the registration is amended to indicate a change in ownership, company name or operational control of the source.

The company name has been revised throughout the registration as follows:

Company Name:

Crown Group, Fort Wayne Plant

The Crown Group Co. Fort Wayne Plant

# **Additional Changes**

Upon further review, IDEM, OAQ has decided to make additional amendments to the registration as described below. The registration has been amended as follows with deleted language as strikeouts and new language **bolded**:

- The registration has been updated from the letter style format to the permit style format, as is now standard IDEM procedure. 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.
- 2. Several of IDEM's branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the registration. The reference to "Compliance Data Section" has been changed to "Compliance and Enforcement Branch". The registration has been revised as follows:

Compliance Data Section Compliance and Enforcement Branch

- 3. On November 3, 2009 and October 20, 2010, the Indiana Air Pollution Control Board issued revisions to 326 IAC 8-2-9 (Miscellaneous metal and plastic parts coating operations). These revisions resulted in changes to the work practices in 326 IAC 8-2-9(f) and new requirements for sources located in Lake and Porter Counties. Therefore, IDEM has updated the applicable 326 IAC 8-2-9 requirements for the electro-deposition tank based on the revised rule.
- 4. PM2.5 was not a regulated pollutant when Registration No. 003-17677-00159 was issued, so there are no existing potential to emit calculations for this pollutant. Therefore, IDEM updated the potential to emit calculations in Appendix A to include PM2.5 emissions. The source-wide unlimited potential to emit PM2.5 is less than twenty five (25) tons per year. This did not require any changes to the registration.

# **Greenhouse Gases**



The Crown Group Co. Fort Wayne Plant Fort Wayne, Indiana Permit Reviewer: Amanda Aitken

Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit (PTE) 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations, the unlimited PTE GHGs from the entire source is less than 100,000 tons of CO2e per year (see Appendix A for the calculations). This did not require any changes to the registration.

The source shall continue to operate according to 326 IAC 2-5.5 (Registrations). Please find enclosed the amended registration and Appendix A. A copy of the registration is available on the Internet at: <a href="http://www.in.gov/ai/appfiles/idem-caats/">http://www.in.gov/ai/appfiles/idem-caats/</a>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: <a href="http://www.idem.in.gov">www.idem.in.gov</a>

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 Amanda Aitken, at (800) 451-6027, press 0 and ask for Amanda Aitken or extension 4-3533, or dial (317) 234-3533.

Sincerely,

Iryn Calilung
Section Chief
Permits Branch
Office of Air Quality

IC/AA

Attachment: Revised Registration and Calculations

cc: File - Allen County

Allen County Health Department Compliance and Enforcement Branch



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Michael R. Pence Governor Thomas W. Easterly Commissioner

# REGISTRATION OFFICE OF AIR QUALITY

# The Crown Group Co. Fort Wayne Plant 4301 Engle Rd. Fort Wayne, IN 46601

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. 003-17677-00159	
Issued by: Paul Dubenetzky, Chief	Issuance Date: June, 18, 2003
Permits Branch Office of Air Quality	

Administrative Amendment No. 003-33241-00159

Issued by:

Iryn Calilung Section Chief

Permits Branch

Office of Air Quality

Issuance Date: June 13, 2013



The Crown Group Co. Fort Wayne Plant

Fort Wayne, IN Admenistrative Admindment No. 003-22341-00159 Registration No. 003-17677-00159

Permit Reviewer: Madhurima D. Moulik Amended by: Amanda Aitken

# **SECTION A**

# SOURCE SUMMARY

Page 2 of 8

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 automotive parts surface coating operation.

Source Address: 4301 Engle Rd., Fort Wayne, IN 46601

General Source Phone Number: 260-432-6900

SIC Code: 3479 (Coating, Engraving, and Allied Services, Not

Elsewhere Classified)

County Location: Allen 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) electro-deposition tank, identified as EU1, constructed February, 1993, coating automotive parts at a maximum capacity of twenty one (21) gallons per hour, and exhausting to the atmosphere.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu (MMBtu) per hour:
  - (1) One (1) curing oven, rated at 3.5 MMBtu per hour, and exhausting to cure oven stack;
  - One (1) air make-up unit, rated at 7.5 MMBtu per hour, and exhausting to the atmosphere;
  - (3) Five (5) space heaters, each rated at 0.1 MMBtu per hour, and each exhausting to the atmosphere.

Permit Reviewer: Madhurima D. Moulik

# **SECTION B**

# **GENERAL CONDITIONS**

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

- Violation of any conditions of this registration. (a)
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- Changes in regulatory requirements that mandate either a temporary or permanent (c) 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]

- All terms and conditions of permits established prior to Registration No. 003-17677-00159 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.
- The annual notice shall be submitted in the format attached no later than March 1 of each (b) year to:

Indiana Department of Environmental Management Compliance and Enforcement 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.

# B.8 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration or ninety (90) days after initial start-up, whichever is later, 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.

If, due to circumstances beyond the Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant notifies:

Indiana Department of Environmental Management Compliance and Enforcement Branch, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

The Registrant shall implement the PMPs.

- (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 Registrant to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

Permit Reviewer: Madhurima D. Moulik Amended by: Amanda Aitken

### **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.

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

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).

# Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)]

#### C.3 General Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)]

- Records of all required monitoring data, reports and support information required by this registration 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 Registrant, the Registrant shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this registration, for all record keeping requirements not already legally required, the Registrant shall be allowed up to ninety (90) days from the date of registration issuance or the date of initial start-up, whichever is later, to begin such record keeping.

# Permit Reviewer: Madhurima D. Moulik Amended by: Amanda Aitken

### **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) electro-deposition tank, identified as EU1, constructed February, 1993, coatingautomotive parts at a maximum capacity of twenty one (21) gallons per hour, and exhausting to the atmosphere.

(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 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicator at the electro-deposition tank shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.

# D.1.2 Volatile Organic Compounds (VOC), Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not limited to, the following:

- (a) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
- (b) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
- (c) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
- (d) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
- (e) Minimize VOC emissions from the cleaning application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

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

# D.1.3 Volatile Organic Compounds

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) using formulation data supplied by the coating manufacturer. However, IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

The Crown Group Co. Fort Wayne Plant Fort Wayne, IN

Admenistrative Admindment No. 003-22341-00159

Permit Reviewer: Madhurima D. Moulik

Amended by: Amanda Aitken

Page 7 of 8 Registration No. 003-17677-00159

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

# D.1.4 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1, the Registrant shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC content limits established in Condition D.1.1. Records necessary to demonstrate compliance shall be available no later than 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 a 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.
- (b) Section C General Record Keeping Requirements of this registration contains the Registrant's obligations with regard to the records required by this condition.

The Crown Group Co. Fort Wayne Plant

Admenistrative Admindment No. 003-22341-00159 Fort Wayne, IN Permit Reviewer: Madhurima D. Moulik Amended by: Amanda Aitken

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT **OFFICE OF AIR QUALITY** COMPLIANCE AND ENFORCEMENT BRANCH

Page 8 of 8 Registration No. 003-17677-00159

# **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:	The Crown Group Co. Fort Wayne Plant						
Address:	4301 Engle Rd.						
City:	Fort Wayne, IN 46601						
Phone Number:	260-432-6900						
Registration No.:	003-17677-00159						
Plant is:	e Crown Group Co. Fort Wayne e Crown Group Co. Fort Wayne	<ul> <li>□ still in operation.</li> <li>□ no longer in operation.</li> <li>□ in compliance with the requirements</li> </ul>					
Plant is:	o Grown Group Go. 1 Gre Wayne	of Registration No. 003-17677-00159.  ☐ not in compliance with the requirements of Registration No. 003-17677-00159.					
Authorized Individual	(typed):						
Title:							
Signature:							
Phone Number:							
Date:							
		ource is not in compliance, provide a narrative ce and the date compliance was, or will be					
Noncompliance:							

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

**Company Name: The Crown Group Co. Fort Wayne Plant** Address City IN Zip: 4301 Engle Rd, Fort Wayne, IN 46601

Permit Number: 003-33241-00159 Reviewer: Amanda Aitken

**Heat Input Capacity** 

HHVmmBtu

Potential Throughput MMCF/yr

MMBtu/hr

11.5

mmscf

102

20	98.8

	Pollutant							
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	direct PM2.5* 7.6	SO2 0.6	NOx 100 **see below	VOC 5.5	CO 84	
Potential Emission in tons/yr	0.1	0.4	0.4	0.0	5.0	0.3	4.2	

<sup>\*</sup>PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

# Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

# **HAPS Calculations**

	HAPs - Organics							
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	Total - Organics		
Potential Emission in tons/yr	1.037E-04	5.926E-05	3.704E-03	8.889E-02	1.679E-04	9.292E-02		

		HAPs - Metals							
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total - Metals			
Potential Emission in tons/yr	2.469E-05	5.432E-05	6.914E-05	1.877E-05	1.037E-04	2.706E-04			
					Total HAPs	9.319E-02			
Methodology is the same as above.					Worst HAP	8.889E-02			

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

# **Greenhouse Gas Calculations**

	Greenhouse Gas					
Emission Factor in lb/MMcf	CO2 120,000	CH4 2.3	N2O 2.2			
Potential Emission in tons/yr	5,926	0.1	0.1			
Summed Potential Emissions in tons/yr	5,926					
CO2e Total in tons/yr	5,962					

# Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

<sup>\*\*</sup>Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

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

Company Name: The Crown Group Co. Fort Wayne Plant Address City IN Zip: 4301 Engle Rd, Fort Wayne, IN 46601

Permit Number: 003-33241-00159 Reviewer: Amanda Aitken

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non- Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/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
Resin/Paste (As Applied)	u (1/1	1.45%	0.0%	1.4%	0.0%	0.00%	21.00000	1.000	0.13	0.1309	2.75	65.98	12.04	0.00	N/A	100%

**Total Potentional to Emit** 

Add worst case coating to all solvents

2.75

65.98

12.04

0.00

# ETHODOLOGY

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 = Worst Coating + Sum of all solvents used

# Appendix A: Emission Calculations Summary of Emissions

Company Name: The Crown Group Co. Fort Wayne Plant Address City IN Zip: 4301 Engle Rd, Fort Wayne, IN 46601

Permit Number: 003-33241-00159 Reviewer: Amanda Aitken

				Unlir	nited Potenti	al to Emit (to	n/yr)				
								GHGs as			
Process	PM	PM10	PM2.5	SO2	NOx	VOC	СО	CO2e	Total HAPs	Single	e HAP
Electro-											
Deposition											
Tank	0	0	0	0	0	12.04	0	0	0	0	
Natural Gas											
Combustion											
Units	0.09	0.38	0.38	0.03	5.00	0.27	4.20	5,962	0.09	0.089	Hexane
Total	0.09	0.38	0.38	0.03	5.00	12.31	4.20	5,962	0.09	0.09	



We Protect Hoosiers and Our Environment.

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Michael R. Pence Governor

Thomas W. Easterly

Commissioner

# SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Bart Alexander

The Crown Group Co. Fort Wayne Plant

4301 Engle

Ft. Wayne, Indiana 46601

DATE: June 13, 2013

FROM: Matt Stuckey, Branch Chief

Permits Branch Office of Air Quality

SUBJECT: Final Decision

Registration – Administrative Amendment

003-33241-00159

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to: Carl Vogt, Engineer/The Crown Group Co. Ft. Wayne Plant OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at <a href="mailto:ibrush@idem.IN.gov">ibrush@idem.IN.gov</a>.

Final Applicant Cover letter.dot 6/13/2013



# Mail Code 61-53

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2		Carl Vogt Engineer The Crown Group Co. Fort Wayne Plant 2111 Walter Reuther Wa	arren MI 4809	91 (RO CAAT	S)						
3		Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party)									
4		Duane & Deborah Clark Clark Farms 6973 E. 500 S. Columbia City IN 46725 (Affected Party)									
5		Fort Wayne City Council and Mayors Office 200 E Berry Street Ste 120 Fort Wayne IN 46802 (Local Official)									
6		Mr. Jeff Coburn Plumbers & Steamfitters, Local 166 2930 W Ludwig Rd Fort Wayne IN 46818-1328 (Affected Party)									
7		Allen Co. Board of Commissioners 200 E Berry Street Ste 410 Fort Wayne IN 4680	2 (Local Offic	cial)							
8		Fort Wayne-Allen County Health Department 200 E Berry St Suite 360 Fort Wayne I	N 46802 <i>(He</i>	ealth Departme	ent)						
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