



Ball Corporation
Packaging Operations
9300 West 108th Circle, Broomfield, CO 80021-3682 (303)460-5530 Fax (303)460-5238

September 8, 2011

EHS11-L-182
Certified

John A. Benedict
Director
WV Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

RE: Title V Permit Renewal Application - Ball Metal Food Container Corp.

Dear Mr. Benedict:

Enclosed please find two CDs each containing a copy of the Title V renewal application for Ball Metal Food Container Corp. located in Weirton, WV. Also enclosed are hard copies of an area map, a plot plan, process flow diagrams, and signed certification forms. The facility is requesting the two parts of its current Title V permit be combined into a single permit.

If you have any questions, please contact me at (303) 460-5601 or jmunsch@ball.com.

Sincerely,

A handwritten signature in black ink, appearing to read "John Munsch".

John Munsch
EHS Department
Ball Corporation

Attachments

cc: D. Maple, Plant Manager – 33*

TITLE V PERMIT RENEWAL APPLICATION
Ball Metal Food Container Corp.
Weirton, WV

Table of Contents

On Diskette:

Copy of Cover Letter

Table of Contents

Completeness Checklist

Title V Renewal Application - General Forms

Attachments A1 & A2 - Area Map & Aerial Photo of Plant Location

Attachment B1 & B2 - Plot Plans/Facility Layouts, Buildings 33 & 720

Attachment C1 & C2 - Process Diagrams of Sheet Coating and End Making

Attachment D - Equipment Table

Attachment E - Emission Unit Forms

Attachment G - Air Pollution Control Device Forms

Supporting Documents - Potential to Emit Calculations

- Sheet Coating Lines

- Lithography Lines

- Solvent-Based End Lines

- Gas Burning Equipment

- Insignificant Activities: Water-Based End Lines

- Facility-wide Emission Summary

Paper Attachments:

Responsible Official Certification (2 Copies with Original Signatures)

Area Map

Plot Plan

Process Flow Diagrams

**TITLE V PERMIT APPLICATION CHECKLIST
FOR ADMINISTRATIVE COMPLETENESS**

<p>A complete application is demonstrated when all of the information required below is properly prepared, completed and attached. The items listed below are required information which must be submitted with a Title V permit application. Any submittal will be considered incomplete if the required information is not included.*</p>	
<input checked="" type="checkbox"/>	Two signed copies of the application (at least one <u>must</u> contain the original "Certification" page signed and dated in blue ink)
<input checked="" type="checkbox"/>	Correct number of copies of the application on separate CDs or diskettes, (i.e. at least one disc per copy)
<input checked="" type="checkbox"/>	*Table of Contents (needs to be included but not for administrative completeness)
<input checked="" type="checkbox"/>	Facility information
<input checked="" type="checkbox"/>	Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios
<input checked="" type="checkbox"/>	Area map showing plant location
<input checked="" type="checkbox"/>	Plot plan showing buildings and process areas
<input checked="" type="checkbox"/>	Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships
<input checked="" type="checkbox"/>	Identification of all applicable requirements with a description of the compliance status, the methods used for demonstrating compliance, and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the source is not in compliance
<input checked="" type="checkbox"/>	Listing of all active permits and consent orders (if applicable)
<input checked="" type="checkbox"/>	Facility-wide emissions summary
<input checked="" type="checkbox"/>	Identification of Insignificant Activities
<input checked="" type="checkbox"/>	ATTACHMENT D - Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities
<input checked="" type="checkbox"/>	ATTACHMENT E - Emission Unit Form completed for each emission unit listed in the Title V Equipment Table (ATTACHMENT D) and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the emission unit is not in compliance
<input checked="" type="checkbox"/>	ATTACHMENT G - Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D)
<input type="checkbox"/>	ATTACHMENT H – Compliance Assurance Monitoring (CAM) Plan Form completed for each control device for which the "Is the device subject to CAM?" question is answered "Yes" on the Air Pollution Control Device Form (ATTACHMENT G)
<input checked="" type="checkbox"/>	General Application Forms signed by a Responsible Official
<input type="checkbox"/>	Confidential Information submitted in accordance with 45CSR31



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. Name of Applicant (As registered with the WV Secretary of State's Office): Ball Metal Food Container Corp		2. Facility Name or Location: 3010 Birch Drive Weirton, WV 20062	
3. DAQ Plant ID No.: 0 0 9 — 0 0 0 2 7		4. Federal Employer ID No. (FEIN): 2 2 2 4 1 4 8 6 9	
5. Permit Application Type: <input type="checkbox"/> Initial Permit When did operations commence? 1989 <input checked="" type="checkbox"/> Permit Renewal What is the expiration date of the existing permit? 03/28/2012 <input type="checkbox"/> Update to Initial/Renewal Permit Application			
6. Type of Business Entity: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Governmental Agency <input type="checkbox"/> LLC <input type="checkbox"/> Partnership <input type="checkbox"/> Limited Partnership		7. Is the Applicant the: <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both If the Applicant is not both the owner and operator, please provide the name and address of the other party.	
8. Number of onsite employees: 168			
9. Governmental Code: <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> District government owned and operated; 5			
10. Business Confidentiality Claims Does this application include confidential information (per 45CSR31)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
11. Mailing Address			
Street or P.O. Box: 3010 Birch Drive			
City: Weirton		State: WV	Zip: 26062
Telephone Number: (304) 797-0062		Fax Number: (304) 797-7952	

12. Facility Location		
Street: 3010 Birch Drive	City: Weirton	County: Brooke
UTM Easting: 531.96 km	UTM Northing: 4471.04 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: From downtown Weirton, south on Rte. 2 to Freedom Way. Right on Freedom Way to Birch Drive. Right on Birch Drive approx. 1 mile. Facility is on the right side of road in Mittal Steel complex in Half Moon Park.		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, for what air pollutants?
Is facility located within 50 miles of another state? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, name the affected state(s). Ohio, Pennsylvania
Is facility located within 100 km of a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, name the area(s).
If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		
13. Contact Information		
Responsible Official: 1) Dave Maple (designee) 2) John Thiersch		Title: 1) Plant Manager 2) Vice Pres., Mfg.
Street or P.O. Box: 1) 3010 Birch Drive 2) P.O. Box 589		
City: 1) Weirton 2) Broomfield	State: 1) WV 2) CO	Zip: 1) 26062 2) 80038
Telephone Number: 1) (304) 797-0062 2) (303) 460-5400	Fax Number: 1) (304) 797-7952 2) (303) 265-9174	
E-mail address: 1) dmaple@ball.com 2) jthiersc@ball.com		
Environmental Contact: John Munsch		Title: Prin. Env. Engineer
Street or P.O. Box: P.O. Box 589		
City: Broomfield	State: CO	Zip: 80038
Telephone Number: (303) 460-5601	Fax Number: (303) 265-9174	
E-mail address: jmunsch@ball.com		
Application Preparer: John Munsch		Title: Prin. Env. Engineer
Company: Ball Corporation		
Street or P.O. Box : P.O. Box 589		
City: Broomfield	State: CO	Zip: 80038
Telephone Number: (303) 460-5601	Fax Number: (303) 265-9174	
E-mail address: jmunsch@ball.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Coil Cutting	Steel sheets	332431	3411
Sheet Coating	Coated steel sheets	332431	3411
End Making	Can ends	332431	3411

Provide a general description of operations.

The plant receives coils of tin-plated steel which it cuts into sheets and coats with inks and protective varnishes. The sheets are cured in natural gas fired ovens and either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies.

The facility consists of two buildings, #33 and #720. The combined operation includes 1) a coating department with 11 sheet coating lines, 2) a lithography department with 6 printing/ sheet coating lines, and 3) an end department with 6 end making lines (2 of which apply water-based end compound and have no VOC emissions). All 11 coating lines are controlled by permanent total enclosures (PTEs) and four different thermal oxidizers. Five of the six lithography lines are controlled by capture hoods and one of the above-mentioned oxidizers. The sixth litho line has no control, but uses only ultraviolet coatings and has minimal emissions. The end lines are uncontrolled.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input checked="" type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input checked="" type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS	<input checked="" type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input checked="" type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

19. Non Applicability Determinations
<p>List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.</p> <p>The regulations have already been determined to be inapplicable in the Fact Sheet accompanying the current Title V permit. Therefore the permit shield should apply.</p>
<input checked="" type="checkbox"/> Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

The plant's facility-wide applicable requirements are listed in Section 3.0 of Title V Permit R30-00900027, Parts 1 and 2. Each requirement lists the underlying rule/regulation citation and/or construction permit with the condition number.

Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

The plant's monitoring/testing/recordkeeping/reporting requirements are listed in Sections 3.2, 3.3, 3.4 & 3.5 of Title V Permit R30-00900027, Parts 1 and 2. Each requirement lists the underlying rule/regulation citation and/or construction permit with the condition number.

Are you in compliance with all facility-wide applicable requirements? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

21. Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit (if any)
R30-00900027-2007, Part 1 of 2 (rev)	03/28/2007	
R30-00900027-2008, Part 1 of 2	05/29/2008	
R13-2111A	04/10/01	
R13-1458D	05/17/10	
R13-1546	12/22/1992	PDF dated April 3, 2008
R13-2295D	07/23/2009	
	/ /	

22. Inactive Permits/ Obsolete/Incorrect Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
R30-00900027-2007, Part 1 of 2	03/28/2007	3.5.10 (Obsolete)
R30-00900027-2007, Part 1 of 2	03/28/2007	3.6.1 (2 nd sentence is obsolete)
R30-00900027-2007, Part 1 of 2	03/28/2007	5.4.1 (0.00 lbs HAPs/gal solids is incorrect. MACT allows 0.1% for OHSA carcinogens and 1.0% for non-carcinogens)
R30-00900027-2007, Part 1 of 2	03/28/2007	6.1.1 (Obsolete)
R30-00900027-2007, Part 1 of 2	03/28/2007	6.1.5 (Allowable gas usage is astronomical. Condition is far less restrictive than 6.1.6, which equates to about 6×10^7 ACF/yr.)
R30-00900027-2007, Part 1 of 2	03/28/2007	6.1.15 (Unnecessary. Condition is far less restrictive than 6.1.2)
R30-00900027-2007, Part 1 of 2	03/28/2007	6.3.4 (Incorrect. References 2 incorrect conditions)
R30-00900027-2007, Part 1 of 2	03/28/2007	6.3.5 (Unnecessary. Duplicate of 6.2.10.d)
R30-00900027-2007, Part 1 of 2	03/28/2007	6.3.7 & 8 (Obsolete. Completed.)
R30-00900027-2007, Part 1 of 2	03/28/2007	6.5.1 (Incorrect. MACT exempts facility from CAM)
R30-00900027-2008, Part 2 of 2	05/29/2008	3.4.5 & 3.5.11 (Incorrect. MACT exempts facility from CAM)
R30-00900027-2008, Part 2 of 2	05/29/2008	4.2.2 (Obsolete. Replaced by 4.1.4.2 & 4.1.5 in R13-2295D)
R30-00900027-2008, Part 2 of 2	05/29/2008	4.1.3, 5.1.1, 6.1.1 (Incorrect. The 0.26 can be the average of all coaters. It is not a requirement of any individual coater.)
R30-00900027-2008, Part 2 of 2	05/29/2008	5.1.1. (Incorrect. The 95% should be 97% as in 5.1.8.
R30-00900027-2008, Part 2 of 2	05/29/2008	5.1.6 & 5.1.7 (Obsolete)
R30-00900027-2008, Part 2 of 2	05/29/2008	5.3.4 (Obsolete. Completed.)
R30-00900027-2008, Part 2 of 2	05/29/2008	5.4.5 (Obsolete. Completed.)
R30-00900027-2008, Part 2 of 2	05/29/2008	7.3.3. (Incorrect. Cond. 4.3.3. doesn't exist.)

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	58.0
Nitrogen Oxides (NO _x)	69.0
Lead (Pb)	0.0
Particulate Matter (PM _{2.5}) ¹	5.2
Particulate Matter (PM ₁₀) ¹	5.2
Total Particulate Matter (TSP)	5.2
Sulfur Dioxide (SO ₂)	0.4
Volatile Organic Compounds (VOC)	3.8
Hazardous Air Pollutants ²	Potential Emissions
Glycol Ethers	>10
Xylene	>10
Methyl Isobutyl Ketone	<10
Ethyl Benzene	<10
Isophorone	<10
Cumene	<10
Naphthalene	<10
Benzene	<10
Toluene	<10
Formaldehyde	<10
Vinyl Acetate	<10
Cresols	<10
<p>Note: The facility uses numerous coatings with a variety of chemical compositions. Therefore, it is virtually impossible to accurately calculate PTEs for individual HAPs. The combined total for all facility HAP emissions in 2010 was less than 15 tons.</p>	
Regulated Pollutants other than Criteria and HAP	Potential Emissions
<p>¹PM_{2.5} and PM₁₀ are components of TSP. ²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.</p>	

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)											
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.										
<input type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.										
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.										
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.										
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.										
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.										
<input type="checkbox"/>	7. Blacksmith forges.										
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.										
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.										
<input type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.										
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.										
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.										
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.										
<input type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.										
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.										
<input checked="" type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.										
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.										
<input type="checkbox"/>	18. Emergency road flares.										
<input checked="" type="checkbox"/>	<p>19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO₂, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:</p> <table style="margin-left: 40px;"> <tr> <td>Parts washers</td> <td>< 1 ton/year VOC (combined)</td> </tr> <tr> <td>Coating storage tanks</td> <td>< 1 ton/year VOC (combined)</td> </tr> <tr> <td>Coil lines</td> <td>No VOC, HAP or criteria pollutant emissions</td> </tr> <tr> <td>Waxer</td> <td>No VOC, HAP or criteria pollutant emissions</td> </tr> <tr> <td>Wastewater treatment</td> <td>No emissions (treatment for pH and metals)</td> </tr> </table> <p>Note: The facility has 16 curing ovens and 4 thermal oxidizers which run on natural gas. The products of combustion of natural gas from the individual units are less than the above limits for each criteria pollutant. However, the aggregate emissions exceed the above limits and the units require permitting. At this point it is impossible to obtain accurate monthly gas usage from individual units because they do not have separate gas meters. Therefore, the facility is requesting plant-wide limits on criteria pollutants for all natural gas sources (exempt and non-exempt) combined based on AP-42 factors and an annual gas consumption of 400 mmscf/yr. The requested limit is less than 30% of the potential to emit for the combined sources. AP-42 calculations are included in the application.</p>	Parts washers	< 1 ton/year VOC (combined)	Coating storage tanks	< 1 ton/year VOC (combined)	Coil lines	No VOC, HAP or criteria pollutant emissions	Waxer	No VOC, HAP or criteria pollutant emissions	Wastewater treatment	No emissions (treatment for pH and metals)
Parts washers	< 1 ton/year VOC (combined)										
Coating storage tanks	< 1 ton/year VOC (combined)										
Coil lines	No VOC, HAP or criteria pollutant emissions										
Waxer	No VOC, HAP or criteria pollutant emissions										
Wastewater treatment	No emissions (treatment for pH and metals)										

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	<p>20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans or for toxic air pollutants as per 45CSR27.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:</p> <p>The facility has two water-based end lines. These lines do not emit any VOCs or HAPs. They do emit a small amount of ammonia. One line received a permit in 1992 (R13-1564). The other was exempted via a permit determination form submitted April 3, 2008. With this application, Ball is requesting the revocation of Permit R13-1564 as the end line does not emit any regulated pollutants. The line's minimal ammonia calculations are included in the application.</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input checked="" type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input checked="" type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant

24. Insignificant Activities (Check all that apply)	
	owners/operators must still get a permit if otherwise requested.)
<input checked="" type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input checked="" type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input checked="" type="checkbox"/>	51. Steam cleaning operations.
<input type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input checked="" type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input checked="" type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the Title V Equipment Table and provide it as ATTACHMENT D .
26. Emission Units
For each emission unit listed in the Title V Equipment Table , fill out and provide an Emission Unit Form as ATTACHMENT E .
For each emission unit not in compliance with an applicable requirement, fill out a Schedule of Compliance Form as ATTACHMENT F .
27. Control Devices
For each control device listed in the Title V Equipment Table , fill out and provide an Air Pollution Control Device Form as ATTACHMENT G .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the Compliance Assurance Monitoring (CAM) Form(s) for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as ATTACHMENT H . (Not Applicable)

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

Note: This Certification must be signed by a responsible official. The original, signed in blue ink, must be submitted with the application. Applications without an original signed certification will be considered as incomplete.

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

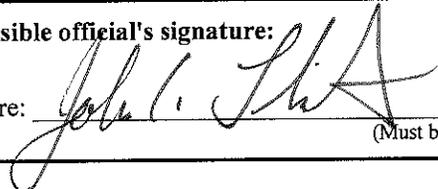
b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)

Name: John Thiersch	Title: Vice President, Manufacturing
---------------------	--------------------------------------

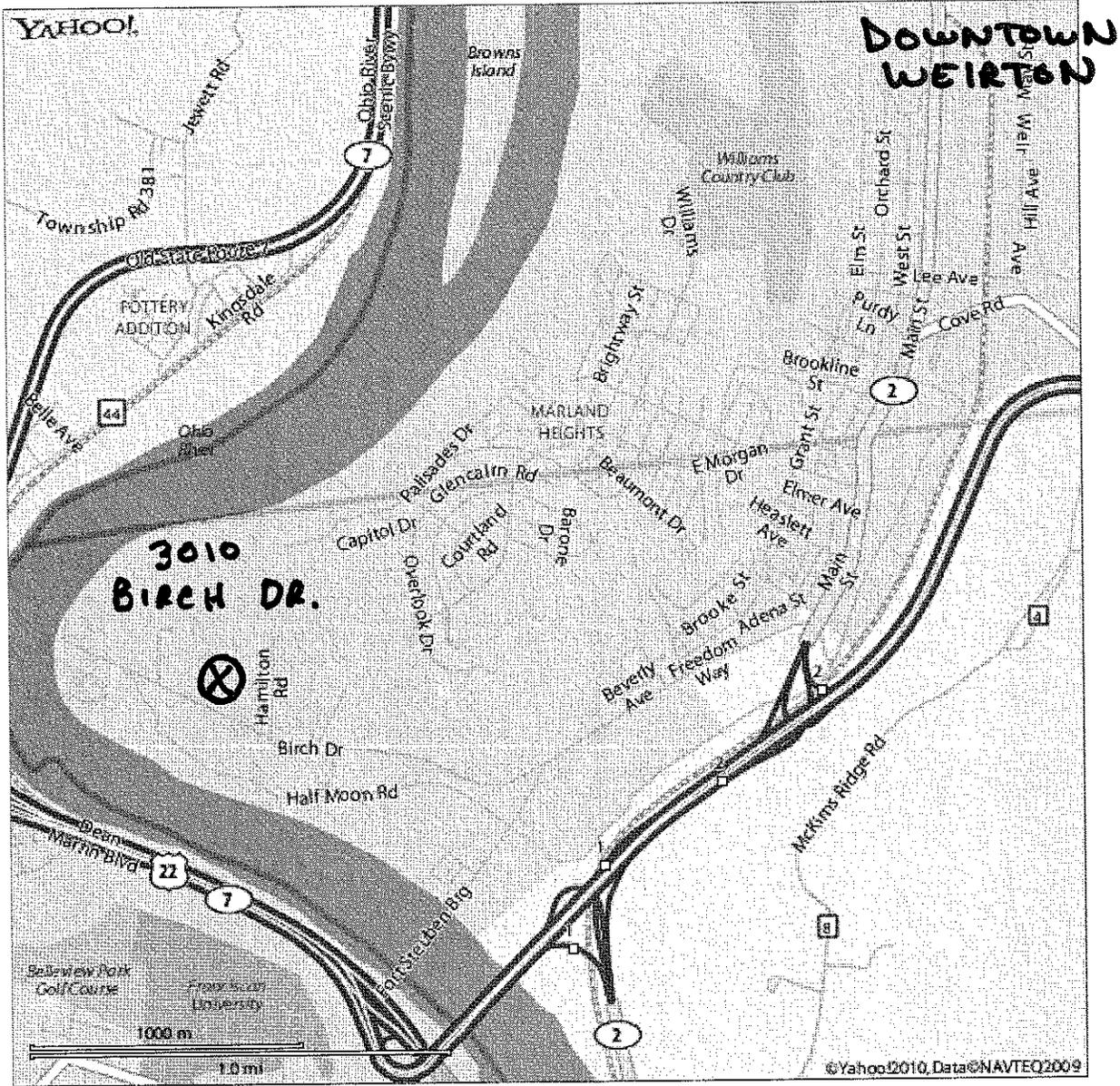
Responsible official's signature:

Signature:  Signature Date: 9/7/2011
(Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:

<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s)
<input type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wy.gov/dag, requested by phone (304) 926-0475, and/or obtained through the mail.



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

ATTACHMENT A-2

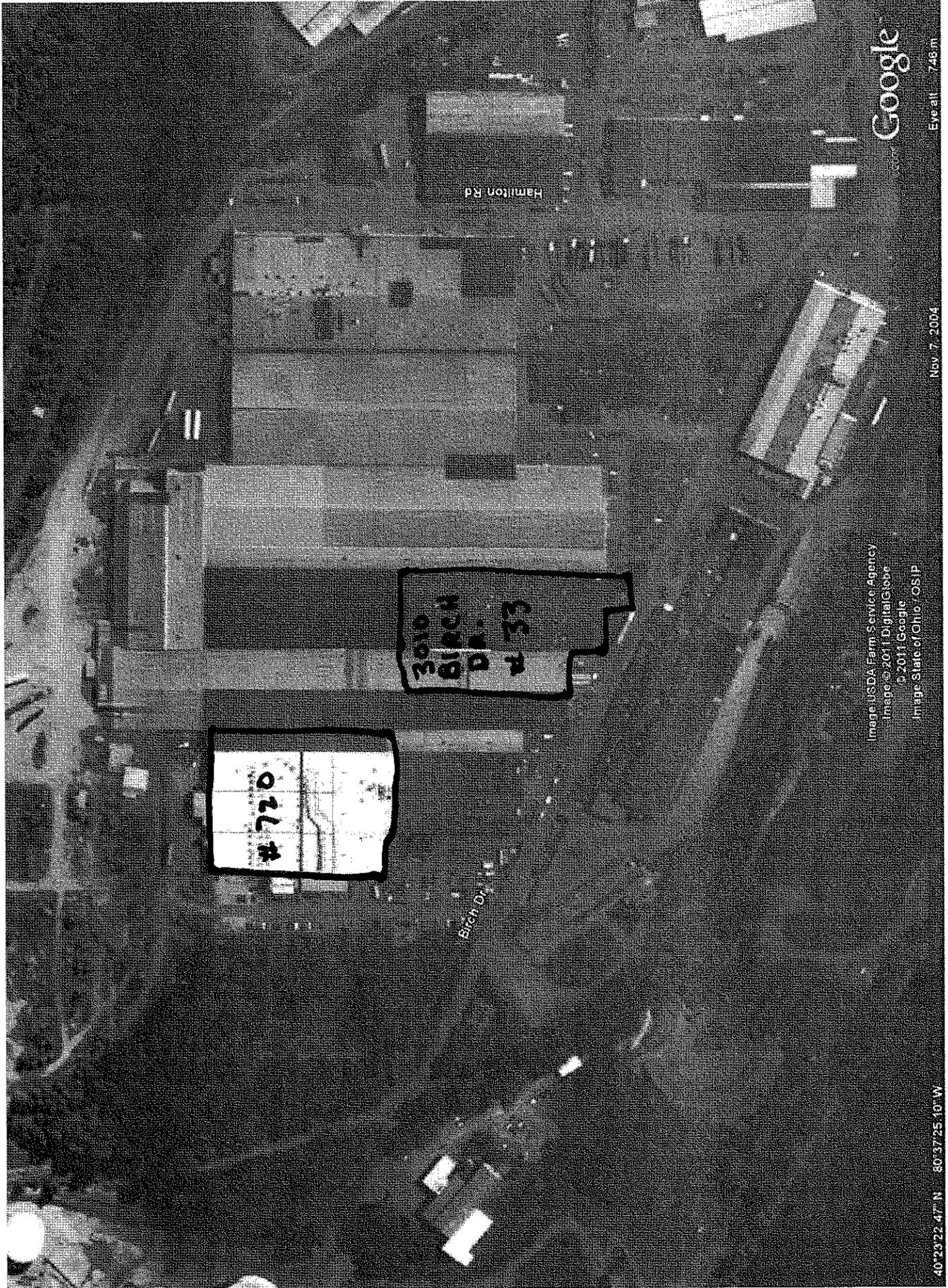


Image USDA Farm Service Agency
Image © 2011 DigitalGlobe
© 2011 Google
Image State of Ohio / OSIP

Google

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Nov 7, 2004

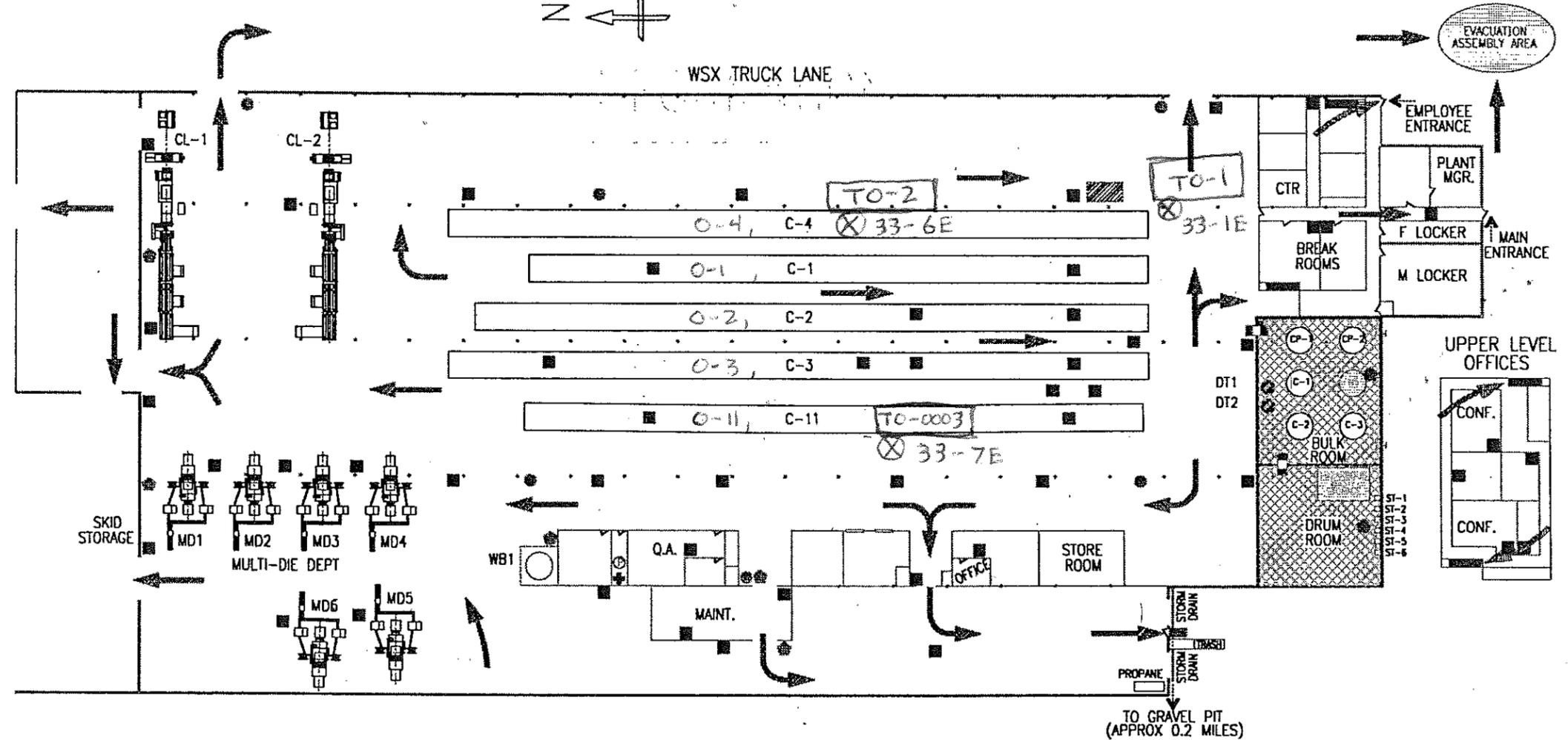
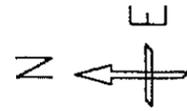
40°23'22.47"N 80°37'25.10"W

WEIRTON PLANT

BUILDING 33

F100A-GU, Rev B

PARKING

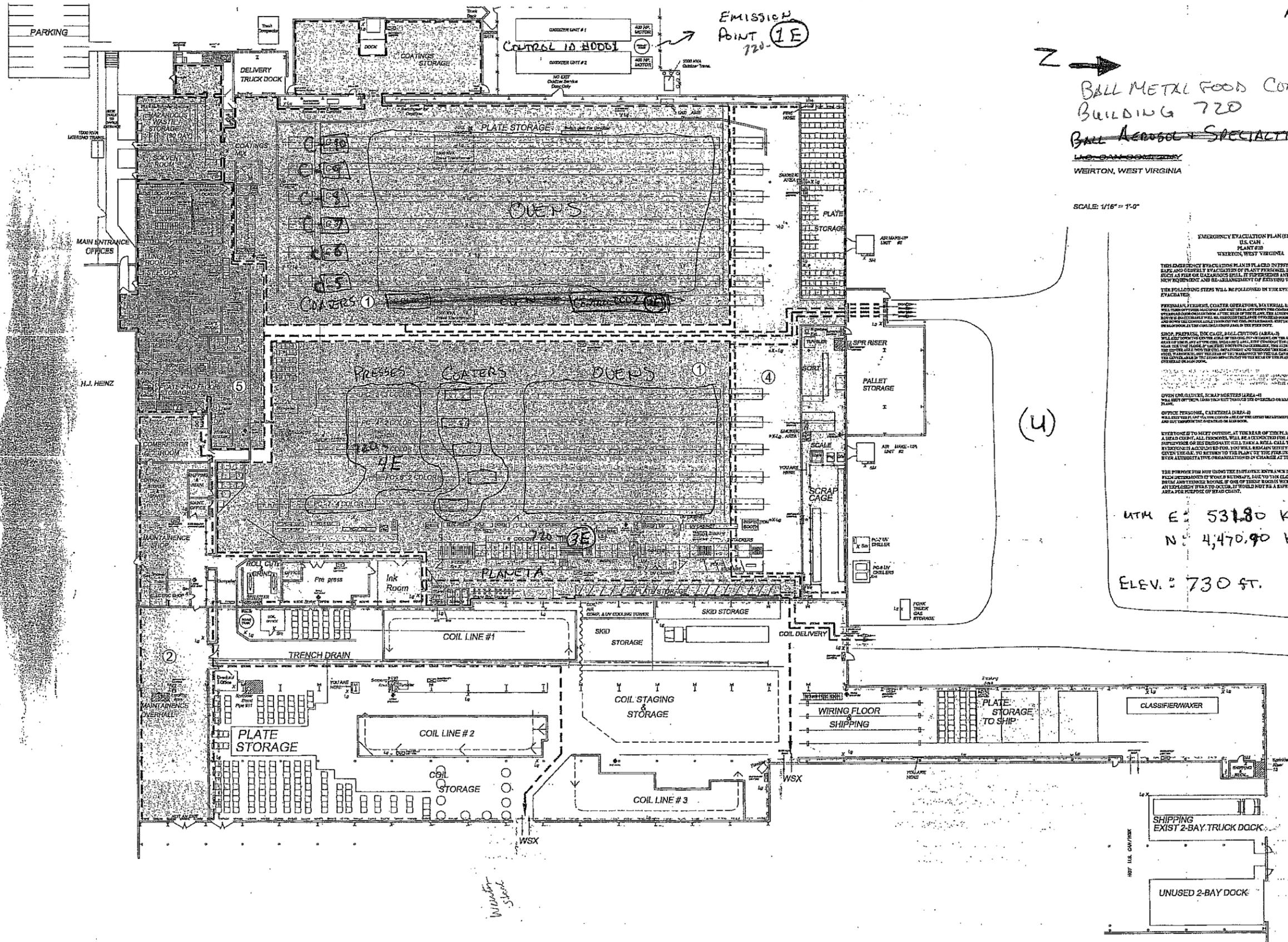


BIRCH DRIVE

EMERGENCY INFORMATION

LEGEND	
	CHEMICAL STORAGE
	DOOR
	EVACUATION ROUTES
	EVACUATION ASSEMBLY AREA
	EYEWASH STATION
	FIRE EXTINGUISHER
	FIRE HOSE
	FIRST AID
	HAZARDOUS WASTE STORAGE
	SPILL EQUIPMENT/CART
	TELEPHONE W/PAGING
	OXIDIZER STACK

SCALE: 1" = 25'
 ELEV: 730'
 UTM: 531,956 E 24E17
 4471,040 N



BALL METAL FOOD CONTAINER CORP
 BUILDING 720
~~BALL METAL SPECIALTY CONTAINER CORP~~
 WEIRTON, WEST VIRGINIA

SCALE: 1/16" = 1'-0"

EMERGENCY EVACUATION PLAN (11/23/99)
 U.S. CAN
 PLANT #23
 WEIRTON, WEST VIRGINIA

THIS EMERGENCY EVACUATION PLAN IS PLACED IN EFFECT TO FACILITATE THE SAFE AND ORDERLY EVACUATION OF PLANT PERSONNEL IN CASE OF CATASTROPHIC SUCH AS FIRE OR UNLARGED SPILL. IT PROVIDES AN OVERVIEW OF THE PLANT'S NEW EQUIPMENT AND RE-ARRANGEMENT OF EXISTING WORK AREAS.

THE FOLLOWING STEPS WILL BE FOLLOWED IN THE EVENT THE PLANT MUST BE EVACUATED:

PERSONNEL: COASTER OPERATIONS, MAINTENANCE (AREA-1) WILL TURN OFF THE MAIN POWER AND SHUT DOWN THE COILERS. AT THE PLANT OFFICE, THE PLANT MANAGER WILL BE NOTIFIED BY TELEPHONE. THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS AND THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS AND THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS.

SCOP: PRESSURE, TON CAGE, BALL CUTTING (AREA-3) WILL TURN OFF THE MAIN POWER AND SHUT DOWN THE COILERS. AT THE PLANT OFFICE, THE PLANT MANAGER WILL BE NOTIFIED BY TELEPHONE. THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS AND THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS.

OPEN ENCLINERS, SCALP (AREA-4) WILL TURN OFF THE MAIN POWER AND SHUT DOWN THE COILERS. AT THE PLANT OFFICE, THE PLANT MANAGER WILL BE NOTIFIED BY TELEPHONE. THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS AND THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS.

OFFICE PERSONNEL, CATERING (AREA-5) WILL TURN OFF THE MAIN POWER AND SHUT DOWN THE COILERS. AT THE PLANT OFFICE, THE PLANT MANAGER WILL BE NOTIFIED BY TELEPHONE. THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS AND THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS.

EVERYONE IS TO MEET OUTSIDE AT THE REAR OF THE PLANT FOR THE PURPOSE OF A HEAD COUNT. ALL PERSONNEL WILL BE ACCOUNTED FOR BY THE PLANT MANAGER OR HIS DESIGNATE. ALL PERSONNEL WILL TAKE A ROLL CALL TO DETERMINE IF ANY PERSONNEL ARE MISSING. IF ANY PERSONNEL ARE MISSING, THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS AND THE PLANT MANAGER WILL BE RESPONSIBLE FOR THE COILERS.

THE PURPOSE FOR NOT USING THE EMPLOYEE ENTRANCE DOORS IS THAT IT HAS BEEN DETERMINED BY WALK-THROUGH TESTS THAT THE CLOSE PROXIMITY TO THE DOORS AND THE NUMBER OF PERSONNEL WHOSE DOORS WERE TO OPEN AT THE SAME TIME WOULD BE A SAFETY HAZARD. IT WOULD NOT BE A SAFE ROUTE TO THE EXISTING AREA FOR PURPOSES OF HEAD COUNT.

(4)

UTM E: 531,80 KM
 N: 4,470,90 KM
 ELEV.: 730 FT.

 United States Can Company Weirton Plant - Weirton, West Virginia			
TITLE: FIRE EVACUATION PLAN			
DRAWN BY: CAJ	DATE: 21-10-00	REVISION: 0	CHECKED BY:
DRAWING NO. USCANFET-17-00			

BIRCH DRIVE (P)

W. J. Schmitt

SHEET COATERS

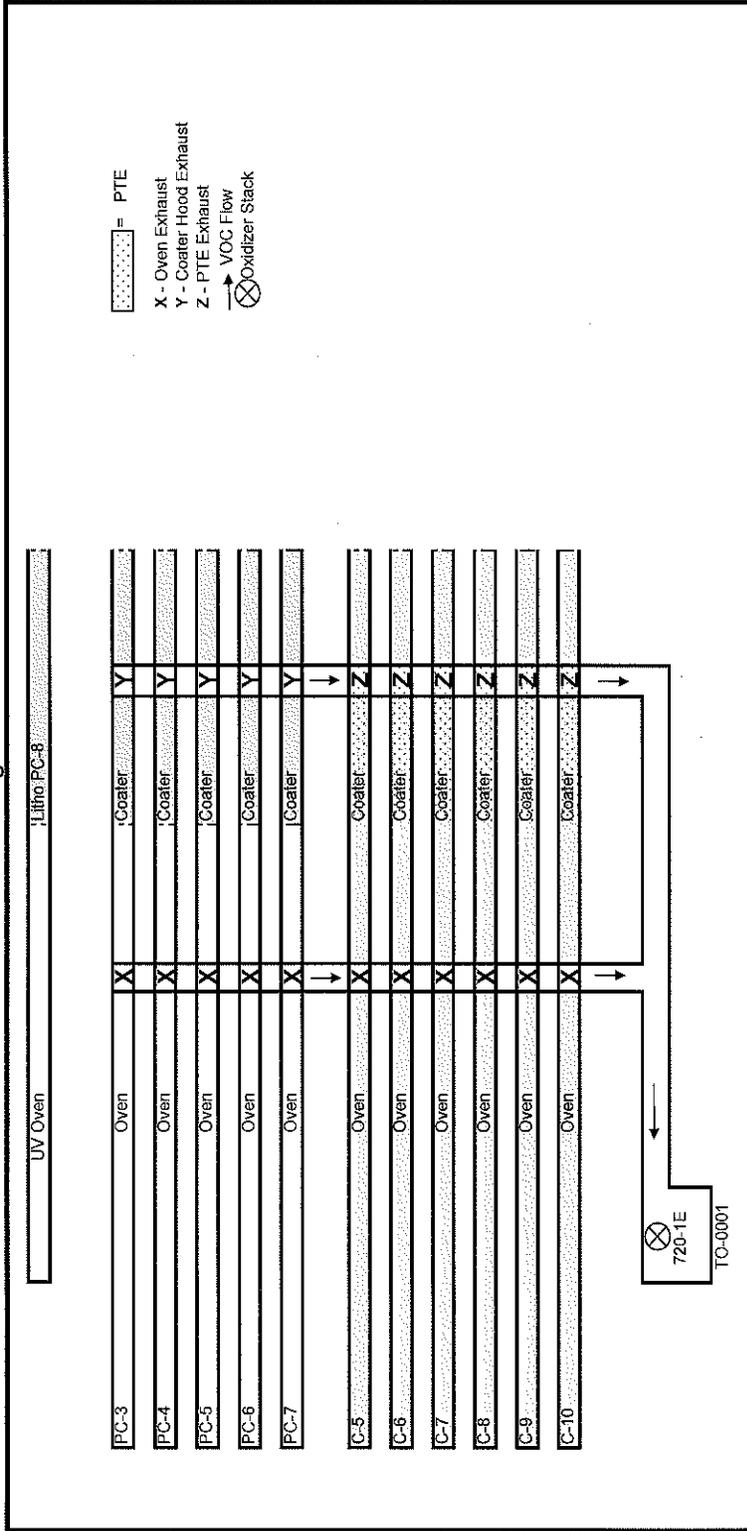
Sheets of tin-plated steel are coated with an enamel material prior to be cut and formed into food cans or stamped into can ends. The following is a brief description of the coating process:

The first piece of equipment on a coating line is the sheet feeder. The sheet feeder holds stacks of tin-plated steel sheets and feeds them, one at a time, to the roll coater. The coater receives the plain sheets from the sheet feeder and applies a predetermined amount of enamel coating to one side the sheets. The enamel application mechanism of the coater consists of two steel rolls, mounted one above the other. The bottom roll, revolving in a pan of enamel, picks up a film of coating and transfers it to the top roll. The spacing between the two steel rolls meters the amount of enamel applied to the top roll. The top steel roll transfers the film to a pliable application roll which in turn transfers the film onto the sheet.

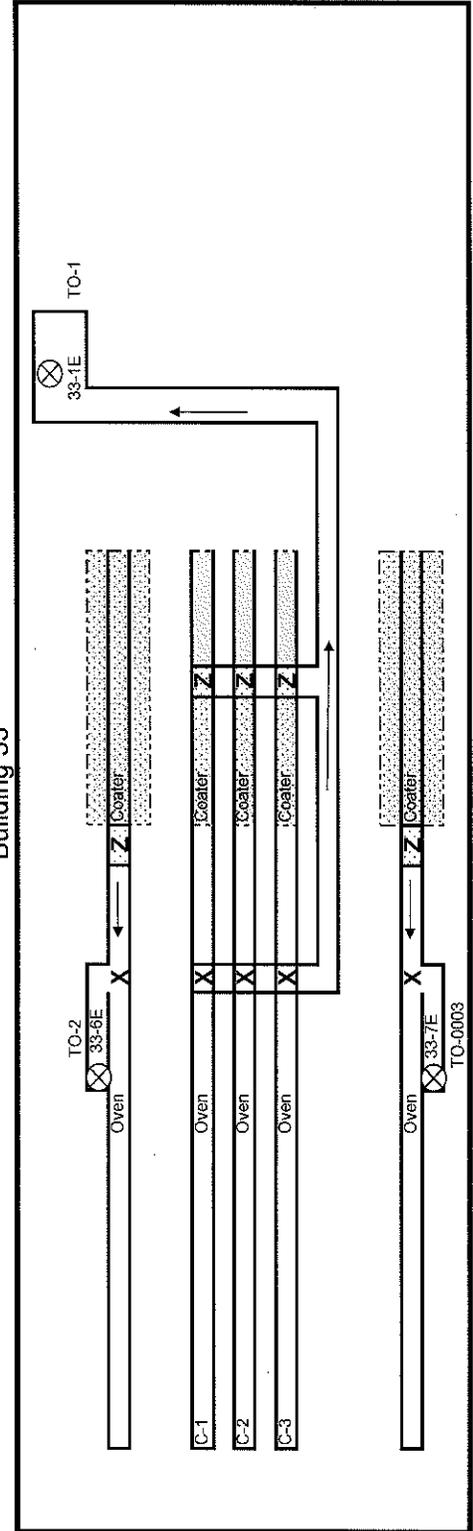
The coated sheets are then carried to the oven entrance where they are placed between wickets and transported through the oven. The oven evaporates the solvents in the enamel and cures the coating to a hard finish. After curing, the sheets exit the rear of the oven and are stacked uniformly on a sheet stacker. The coated sheets are then either transferred to another location to be pressed into ends or shipped to another plant to be formed into cans.

The entire process falls under SIC 3411 & NAICS 332431 (Canmaking).

Building 720



Building 33



Attachment C-2

Process Description - End Making

END FORMING

Stamping and forming of ends is performed on coated sheet of steel with the stroke of a press. A common multi-die press is equipped with 10 or 11 sets of punches and dies and has a rated speed of about 125-130 strokes per minute, for an output of between 75,000 and 85,800 ends per hour.

END CURLING

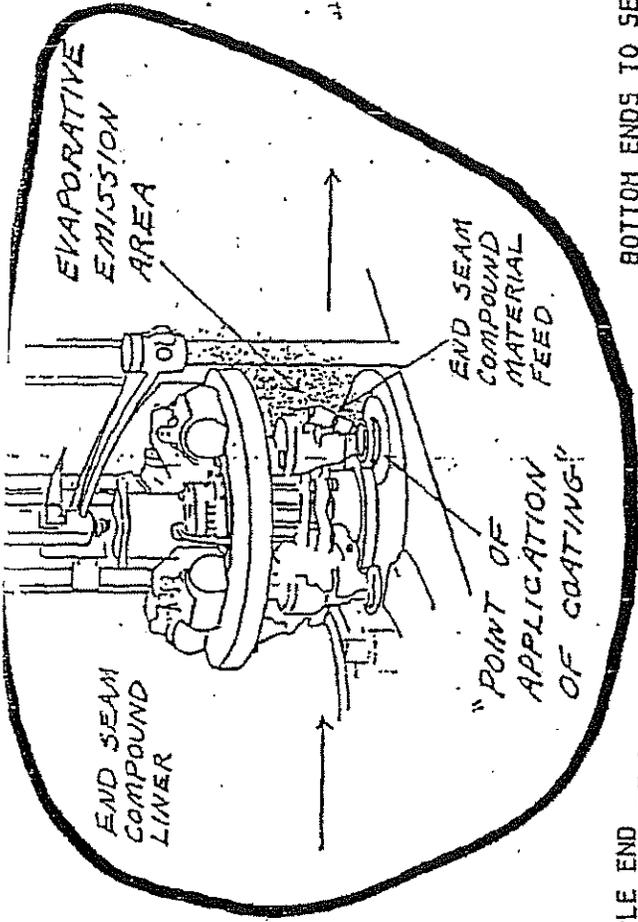
Press forming of ends leaves the cut edge in the form of a straight skirt. A curling machine is used to form a curl or radius on the cut edge that eventually folds into and interlocks with a flange on the can body to form a seam. The curl is formed by the rolling and squeezing action on the periphery of the can end as it passes through the curler.

COMPOUND LINING

Can ends are delivered to the compound liner by a belt conveyor system that drops the ends into the top of a feed hopper where they automatically stack. One-by-one the ends are transferred to a turret that rotates the ends in a counter-clockwise direction. As the ends rotate, a sealing compound is placed, via a vertical nozzle, into the compound channels to form a leak-proof seal when the end is attached to a can. Lastly, the ends are placed in paper sleeves, stacked on pallets, and stored in the warehouse for 24 hours to cure. They are then shipped to other Ball plants and Ball customers for assembly.

The entire process falls under SIC 3411, NAICS 332431 (Canmaking).

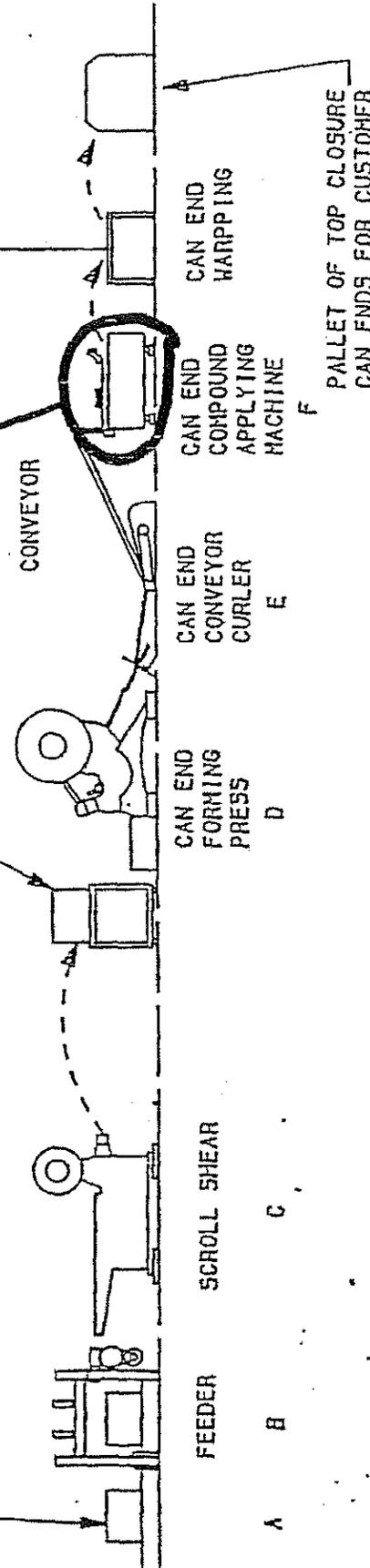
ATTACHMENT C-2



SHEET OF PLAIN,
ENAMELED, AND/OR
LITHOGRAPHED CAN
END, TINPLATE OR
BLACKPLATE

MULTIPLE END
CUT STRIPS

BOTTOM ENDS TO SEAMER



FEEDER
A B C

CAN END
FORMING
PRESS
D

CAN END
CONVEYOR
CURLER
E

CAN END
COMPOUND
APPLYING
MACHINE
F

CAN END
HARPPING

PALLET OF TOP CLOSURE
CAN ENDS FOR CUSTOMER

TYPICAL CAN END PRESS LINE

(MD-13, 4 + 5)

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as
insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/ Modified
4S 33-1E	TO-1	C-1	#C-1 Wagner Sheet Coater and Wagner Oven	6,000 sheets/hr	1995
2S 33-1E	TO-1	C-2	#C-2 Wagner Sheet Coater and Wagner Oven	6,000 sheets/hr	1990
3S 33-1E	TO-1	C-3	#C-3 Wagner Sheet Coater w/ UV & Oven	6,000 sheets/hr	1990
4S 33-6E	TO-2	C-4	#C-4 Crabtree Sheet Coater Series 1200 & Oven	7,800 sheets/hr	1997
33-2E	-	MD-1	Grace 800 End Liner	85,800 ends/hr	1991
33-3E	-	MD-5	Grace 800 End Liner	75,000 ends/hr	1997
33-4E	-	MD-3	Grace 800 End Liner	85,800 ends/hr	2007
33-5E	-	MD-4	Grace 800 End Liner	85,800 ends/hr	1996
33-1E	-	TO-1	MEGTEC Cleanswitch, Regen. Therm. Oxidizer	17 4.0 MMBtu/hr	1989 2009
33-6E	-	TO-2	Catalytic Products SR-6000 Thermal Oxidizer	6.8 MMBtu/hr	1997
720-1E	0001	001-01	No. C-1-5 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	001-02	No. C-1-5 Oven	6,000 sheets/hour	1970
720-1E	0001	001-03	No. C-2-6 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	001-04	No. C-2-6 Oven	6,000 sheets/hour	1970
720-1E	0001	001-05	No. C-3-7 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	001-06	No. C-3-7 Oven	6,000 sheets/hour	1970
720-1E	0001	001-07	No. C-4-8 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	001-08	No. C-4-8 Oven	6,000 sheets/hour	1970
720-1E	0001	001-09	No. C-5-9 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	001-10	No. C-5-9 Oven	6,000 sheets/hour	1970
720-1E	0001	001-11	No. C-6-10 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	001-12	No. C-6-10 Oven	6,000 sheets/hour	1970
720-4E	NA	002-01	PC-3 HOE UV Press	5,100 sheets/hour	1997
720-4E	NA	002-02	PC-3 HOE UV Press	5,100 sheets/hour	1997
NA	NA	002-03	PC-3 Conventional Press	5,100 sheets/hour	1997
720-4E	NA	002-04	PC-4 HOE UV Press	5,100 sheets/hour	1997
NA	NA	002-05	PC-4 Conventional Press	5,100 sheets/hour	1997
720-4E	NA	002-06	PC-5 HOE UV Press	5,100 sheets/hour	1970

Title V Equipment Table (equipment_table.doc)

NA	NA	002-07	PC-5 Conventional Press	5,100 sheets/hour	1997
NA	NA	002-08	PC-6 Conventional Press	5,100 sheets/hour	1970
NA	NA	002-09	PC-6 Conventional Press	5,100 sheets/hour	1970
720-4E	NA	002-10	PC-7 HOE UV Press	5,100 sheets/hour	1997
720-4E	NA	002-11	PC-7 HOE UV Press	5,100 sheets/hour	1997
720-4E	NA	002-12	PC-7 HOE UV Press	5,100 sheets/hour	1997
NA	NA	002-13	PC-7 Conventional Press	5,100 sheets/hour	1997
720-1E	0001	003-01	No. PC-3 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	003-02	No. PC-3 Wagner Oven	6,000 sheets/hour	1970
720-1E	0001	003-03	No. PC-4 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	003-04	No. PC-4 Wagner Oven	6,000 sheets/hour	1970
720-1E	0001	003-05	No. PC-5 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	003-06	No. PC-5 Wagner Oven	6,000 sheets/hour	1970
720-1E	0001	003-07	No. PC-6 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	003-08	No. PC-6 Wagner Oven	6,000 sheets/hour	1970
720-1E	0001	003-09	No. PC-7 Wagner Sheet Coater	6,000 sheets/hour	1970
720-1E	0001	003-10	No. PC-7 Wagner Oven	6,000 sheets/hour	1970
720-3E	NA	006-01	No. PC-8 6-color Planeta Press	7,200 sheets/hour	1999
720-3E	NA	006-02	No. PC-8 Planeta Press UV Sheet Coater	7,200 sheets/hour	1999
33-7E 2E	0003	007-01	No. C-7-11 LTG1 Sheet Coater	7,800 sheets/hour	2008
33-7E 2E	0003	007-02	No. C-7-11 LTG1 Oven	7,800 sheets/hour	2008
720-1E	NA	0001	Two (2)Smith Regenerative Thermal Oxidizers	6.6 MMBtu/hr x 2	2000
720-2E	NA	0003	LTG Thermal Oxidizer	6.8 MMBtu/hr	2008

¹For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: C-1	Emission unit name: Wagner Sheet Coater #1	List any control devices associated with this emission unit. Thermal Oxidizer TO-1
--	--	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
The sheet coater coats pre-cut sheets with a protective varnish. The sheets are cured in an oven and either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies. Emissions are directed into a thermal oxidizer through the oven and from a permanent total enclosure (PTE) over the coater. Solvents are used to clean coater rolls and general clean-up.

Manufacturer: Wagner	Model number: None	Serial number: 2607A
--------------------------------	------------------------------	--------------------------------

Construction date: Unknown	Installation date: 1995	Modification date(s): April, 2010
--------------------------------------	-----------------------------------	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): The
At maximum operating rate, coater could use 33.42 gallons of coating/hr. and 5,000 gallons solvent/yr.

Maximum Hourly Throughput: 6,000 sheets/hr	Maximum Annual Throughput: 52,560,000 sheets/yr	Maximum Operating Schedule: 8,760 hr/yr
--	---	---

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	4.0	17.5
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	1.3	5.8
Individual HAPS	See Page 7 of General Forms	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential VOC emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets. The permitted control efficiency of 98% overall is applied.

Potential HAP emissions are based on the restrictions imposed by Can Making MACT Subpart KKKK. These restrictions include a limit of either 95% destruction efficiency or 0.26 pounds of HAPs/gallon coating solids after control.

Permanent Total Enclosure Verification for the coater and destruction efficiency testing for the associated oxidizer were conducted March, 2010.

See attached worksheets for PTE calculations.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-1458D:

Conditions 4.1.7, 4.2-4.5 (Note: emission limits are for C-1, C-2 and C-3 combined)

MACT Subpart KKKK - 0.26 lbs HAPs/gallon coating solids or 95% overall control efficiency.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 4.2-4.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: C-2	Emission unit name: Wagner Sheet Coater #2	List any control devices associated with this emission unit. Thermal Oxidizer TO-1
--	--	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 The sheet coater coats pre-cut sheets with a protective varnish. The sheets are cured in an oven and either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies. Emissions are directed into a thermal oxidizer through the oven and from a PTE over the coater. Solvents are used to clean coater rolls and general clean-up.

Manufacturer: Wagner	Model number: None	Serial number: 23240
--------------------------------	------------------------------	--------------------------------

Construction date: 1953	Installation date: 1990	Modification date(s): April, 2010
-----------------------------------	-----------------------------------	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): The
 At maximum operating rate, coater could use 33.42 gallons of coating/hr. and 5,000 gallons solvent/yr.

Maximum Hourly Throughput: 6,000 sheets/hr	Maximum Annual Throughput: 52,560,000 sheets/yr	Maximum Operating Schedule: 8,760 hr/yr
--	---	---

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	4.0	17.5
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	1.3	5.8
Individual HAPS	See page 7 of General Forms	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential VOC emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets. The permitted control efficiency of 98% overall is applied.

Potential HAP emissions are based on the restrictions imposed by Can Making MACT Subpart KKKK. These restrictions include a limit of either 95% destruction efficiency or 0.26 pounds of HAPs/gallon coating solids after control.

Permanent Total Enclosure Verification for the coater and destruction efficiency testing for the associated oxidizer were conducted March, 2010.

See attached worksheets for PTE calculations.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-1458D:

Conditions 4.1.7, 4.2-4.5 (Note: emission limits are for C-1, C-2 and C-3 combined)

MACT Subpart KKKK - 0.26 lbs HAPs/gallon coating solids or 95% overall control efficiency.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 4.2-4.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: C-3	Emission unit name: Sheet Coater #3 W/ UV	List any control devices associated with this emission unit. Thermal Oxidizer TO-1
--	---	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 The sheet coater coats pre-cut sheets with a protective varnish. The sheets are cured in an oven and either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies. Emissions are directed into a thermal oxidizer through the oven and from a PTE over the coater. This line also has UV coating capabilities. The UV coating process releases a de minimis amount of VOC emissions (and no HAPs) which are accounted for as C-3 emissions. Solvents are used to clean coater rolls and general clean-up.

Manufacturer: Wagner	Model number: None	Serial number: 27567A
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Construction date: 1955.	Installation date: 1990	Modification date(s): April, 2010
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): The
 At maximum operating rate, coater could use 33.42 gallons of conventional coating/hr. and 5,000 gallons solvent/yr.

Maximum Hourly Throughput: 6,000 sheets/hr	Maximum Annual Throughput: 52,560,000 sheets/yr	Maximum Operating Schedule: 8,760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	4.0	17.7
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	1.3	5.8
Individual HAPS	See page 7 of General Forms	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential VOC emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets. The permitted control efficiency of 98% overall is applied.

Potential HAP emissions are based on the restrictions imposed by Can Making MACT Subpart KKKK. These restrictions include a limit of either 95% destruction efficiency or 0.26 pounds of HAPs/gallon coating solids after control.

Permanent Total Enclosure Verification for the coater and destruction efficiency testing for the associated oxidizer were conducted March, 2010.

See attached worksheets for PTE calculations.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-1458D:

Conditions 4.1.7, 4.2-4.5 (Note: emission limits are for C-1, C-2 and C-3 combined)

MACT Subpart KKKK - 0.26 lbs HAPs/gallon coating solids or 95% overall control efficiency.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 4.2-4.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: C-4	Emission unit name: Sheet Coater #4	List any control devices associated with this emission unit. Thermal Oxidizer TO-2
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 The sheet coater coats pre-cut sheets with a protective varnish. The sheets are cured in an oven and either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies. Emissions are captured within a permanent total enclosure and directed through the oven into a thermal oxidizer which generates heat for the oven. Solvents are used to clean coater rolls and general clean-up.

Manufacturer: Crabtree	Model number: Series 1200	Serial number: FSFR5954
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Construction date: 1997	Installation date: 1998	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 At maximum operating rate, coater could use 43.45 gallons of coating/hr. and 4,000 gallons solvent/yr.

Maximum Hourly Throughput: 7,800 sheets/hr	Maximum Annual Throughput: 68,328,000 sheets/yr	Maximum Operating Schedule: 8,760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	2.8	12.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	0.9	4.0
Individual HAPS	See page 7 of General Forms	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential VOC emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets. The permitted control efficiency of 99% overall is applied.

Potential HAP emissions are based on the restrictions imposed by Can Making MACT Subpart KKKK. These restrictions include a limit of either 95% destruction efficiency or 0.26 pounds of HAPs/gallon coating solids after control.

Permanent Total Enclosure Verification for the coater and destruction efficiency testing for the associated oxidizer were conducted October, 2006.

See attached worksheets for PTE calculations.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-2111A:
Conditions A. 1.-9.

MACT Subpart KKKK - 0.26 lbs HAPs/gallon coating solids or 95% overall control efficiency.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 4.2-4.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:
MD-1

Emission unit name:
End Liner #1

List any control devices associated with this emission unit.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Coated sheets are transferred to the end department and made into ends with one stroke of a multi-die press. The ends are then conveyed to a pair of liners which applies a ring of solvent-based end compound around the edge of the end to form a gasket-like seal when attached to the can body. Heptane mist solution is used to clean the compound application nozzles.

Manufacturer:
Grace

Model number:
800

Serial number:
A3186 A3187

Construction date:
1990

Installation date:
1991

Modification date(s):

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
At maximum operating speed, line could use 21.1 pounds of end compound/hr. and 0.19 gallons of heptane solvent/hr.

Maximum Hourly Throughput:
85,800 ends/hr

Maximum Annual Throughput:
752MM ends/yr

Maximum Operating Schedule:
8760 hr/yr

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? Yes No

If yes, is it?

Indirect Fired Direct Fired

Maximum design heat input and/or maximum horsepower rating:

Type and Btu/hr rating of burners:

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	10.07	44.11
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	*	*
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets.

* The USEPA has indicated that end compound containing less than 0.5% HAPs by weight complies with MACT Subpart KKKK (HAP-free end compound).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-1458D:

Conditions 4.1.1, 4.1.5, 4.2.2, 4.4.4

MACT Subpart KKKK – 0 lbs HAP/gallon coating solids in end compound.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 5.4-5.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: MD-5	Emission unit name: End Liner #5	List any control devices associated with this emission unit.
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Coated sheets are transferred to the end department and made into ends with one stroke of a multi-die press. The ends are then conveyed to a pair of liners which applies a ring of solvent-based end compound around the edge of the end to form a gasket-like seal when attached to the can body. Heptane mist solution is used to clean the compound application nozzles.

Manufacturer: Grace	Model number: 800	Serial number: None
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Construction date: Unknown	Installation date: 1992	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 At maximum operating speed, line could use 20.10 pounds of end compound/hr. and 0.17 gallons of heptane solvent/hr.

Maximum Hourly Throughput: 75,000 ends/hr	Maximum Annual Throughput: 657MM ends/yr	Maximum Operating Schedule: 8760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	9.51	41.65
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs*	*	*
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets.

* The USEPA has indicated that end compound containing less than 0.5% HAPs by weight complies with MACT Subpart KKKK (HAP-free end compound).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-1458D:

Conditions 4.1.2, 4.1.5, 4.2.2, 4.4.4

MACT Subpart KKKK – 0 lbs HAP/gallon coating solids in end compound.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 5.4-5.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: MD-3	Emission unit name: End Liner #3	List any control devices associated with this emission unit.
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Coated sheets are transferred to the end department and made into ends with one stroke of a multi-die press. The ends are then conveyed to a pair of liners which applies a ring of solvent-based end compound around the edge of the end to form a gasket-like seal when attached to the can body. Heptane mist solution is used to clean the compound application nozzles.

Manufacturer: Grace	Model number: 800	Serial number: A3188 A3189
Construction date: Unknown	Installation date: 1991	Modification date(s):

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 At maximum operating speed, line could use 21.11 pounds of end compound/hr. and 0.19 gallons of heptane solvent/hr.

Maximum Hourly Throughput: 85,800 ends/hr	Maximum Annual Throughput: 752MM ends/yr	Maximum Operating Schedule: 8760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	10.07	44.11
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs*	*	*
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets.

* The USEPA has indicated that end compound containing less than 0.5% HAPs by weight complies with MACT Subpart KKKK (HAP-free end compound).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-1458D:

Conditions 4.1.3, 4.1.5, 4.2.2, 4.4.4

MACT Subpart KKKK – 0 lbs HAP/gallon coating solids in end compound.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 5.4-5.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: MD-4	Emission unit name: End Liner #4	List any control devices associated with this emission unit.
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Coated sheets are transferred to the end department and made into ends with one stroke of a multi-die press. The ends are then conveyed to a pair of liners which applies a ring of solvent-based end compound around the edge of the end to form a gasket-like seal when attached to the can body. Heptane mist solution is used to clean the compound application nozzles.

Manufacturer: Grace	Model number: 800	Serial number: A3188 A3189
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Construction date: Unknown	Installation date: 1991	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 At maximum operating speed, line could use 21.11 pounds of end compound/hr. and 0.19 gallons of heptane solvent/hr.

Maximum Hourly Throughput: 85,800 ends/hr	Maximum Annual Throughput: 752MM ends/yr	Maximum Operating Schedule: 8760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	10.07	44.11
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	*	*
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets.

* The USEPA has indicated that end compound containing less than 0.5% HAPs by weight complies with MACT Subpart KKKK (HAP-free end compound).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-1458D:

Conditions 4.1.4, 4.1.5, 4.2.2, 4.4.4

MACT Subpart KKKK – 0 lbs HAP/gallon coating solids in end compound.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 1 of 2, Sections 5.4-5.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 001-01, 03, 05, 07, 09 & 11	Emission unit name: Coating lines C-5 through C-10 (6 similar coaters in PTEs routed to a regenerative thermal oxidizer)	List any control devices associated with this emission unit. Thermal Oxidizer 0001 (Point 1E)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 The sheet coater coats pre-cut sheets with a protective varnish. The sheets are cured in an oven and sent off site to be pressed into ends of made into can bodies. Emissions are directed into a thermal oxidizer through the oven and from each permanent total enclosure (PTE) surrounding Coaters 1-6. Solvents are used to clean coater rolls and general clean-up. NOTE: Coater C-7 (ID 001-07) is currently inactive and does not yet have a PTE. It will be equipped with one prior to operating.

Manufacturer: Wagner	Model number: None	Serial number: 61484-A, 57104-A, 62794-A 33920-A, 73754-A, 77644-A
Construction date: Unknown	Installation date: 1970	Modification date(s): PTEs constructed July, 2010

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 At maximum operating rate, each coater could use 33.42 gallons of coating/hr. and 5,000 gallons solvent/yr.

Maximum Hourly Throughput: 6,000 sheets/hr each	Maximum Annual Throughput: 52,560,000 sheets/yr each	Maximum Operating Schedule: 8,760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <u>X</u> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data PER COATING LINE		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	10.47	45.84
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	3.5	15.3
Individual HAPS	See Page 7 of General Forms	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Potential VOC emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets. The permitted control efficiency of 95% overall is applied.</p> <p>Potential HAP emissions are based on the restrictions imposed by Can Making MACT Subpart KKKK. These restrictions include a limit of either 95% destruction efficiency or 0.26 pounds of HAPs/gallon coating solids after control.</p> <p>Permanent Total Enclosure Verifications for five of the coaters was performed July, 2010. Destruction efficiency testing for the associated oxidizer was conducted November, 2006.</p> <p>See attached worksheets for PTE calculations.</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-2295D:

Conditions: 4.1.4.2, 4.1.5, 4.1.12, 4.1.13, 4.4.1, 4.4.2, 4.4.3

C.S.R. 45-6-4.1 – 1.4 lbs/hr PM emissions per RTO.

MACT Subpart KKKK - 0.26 lbs HAPs/gallon coating solids or 95% overall control efficiency.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Title V Permit R30-00900027-2007, Part 2 of 2, Sections 4.2-4.5

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 007-01	Emission unit name: LTG coater C-11	List any control devices associated with this emission unit. Thermal Oxidizer 0003
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 The sheet coater coats pre-cut sheets with a protective varnish. The sheets are cured in an oven and either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies. Emissions are directed into a thermal oxidizer through the oven and from the permanent total enclosure (PTE) surrounding the coater. Solvents are used to clean coater rolls and general clean-up.

Manufacturer: LTG	Model number: None	Serial number: Unknown
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Construction date: Unknown	Installation date: 2008	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): The
 At maximum operating rate, coater could use 43.4 gallons of coating/hr. and 4,000 gallons solvent/yr.

Maximum Hourly Throughput: 7,800 sheets/hr	Maximum Annual Throughput: 68,328,000 sheets/yr	Maximum Operating Schedule: 8,760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes ___ <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	7.36	32.26
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	2.5	10.8
Individual HAPS	See page 7 of General Forms	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential VOC emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets. The permitted control efficiency of 97% overall is applied.

Potential HAP emissions are based on the restrictions imposed by Can Making MACT Subpart KKKK. These restrictions include a limit of either 95% destruction efficiency or 0.26 pounds of HAPs/gallon coating solids after control.

Permanent Total Enclosure Verification for the coater was performed March, 2009. Destruction efficiency testing for the associated oxidizer was conducted January, 2009.

See attached worksheets for PTE calculations.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the rule citation and/or permit with the condition number. If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-2295D, Conditions: 4.1.3, 4.1.4.1, 4.1.5, 4.1.6, 4.1.7, 4.1.8, 4.1.9, 4.1.10, 4.1.12

MACT Subpart KKKK - 0.26 lbs HAPs/gallon coating solids or 95% overall control efficiency.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Permit R30-00900027-2008 (Part 2 of 2), Section 5.0.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 002-01 to 002-13 003-01 , 03, 05, 07, 09	Emission unit name: Lithography lines PC-3 to PC-7 5 similar coating lines routed to a regenerative thermal oxidizer)	List any control devices associated with this emission unit. Thermal Oxidizer 0001 (Point 1E)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Printers apply a small amount of high-solids ink to sheets prior to coating with a protective varnish. The sheets are cured in an oven and either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies. Emissions are directed into a thermal oxidizer through the coater oven and from a hood over the coater. Solvents are used to clean coater rolls and general clean-up.

Manufacturer: HOE Printers, Wagner Coaters	Model number: None	Serial number: Unknown
Construction date: Unknown	Installation date: 1970	Modification date(s): 1997

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): The
 At maximum operating rate, a line could use 33.42 gallons of conventional coating/hr. and 3000 gallons solvent/yr.

Maximum Hourly Throughput: 6,000 sheets/hr	Maximum Annual Throughput: 52,560,000 sheets/yr	Maximum Operating Schedule: 8,760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data PER LINE		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	28.3	124.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	4.19	18.3
Individual HAPS	See page 7 of General Forms	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential VOC emissions are based on mass balance calculations using manufacturer's VOC data sheets and solvent composition sheets. A overall control efficiency of 85.5% is applied, based on the RTO's required minimum destruction efficiency of 95% and a conservative capture efficiency of 90%.

Potential HAP emissions are based on the restrictions imposed by Can Making MACT Subpart KKKK. These restrictions include a limit of either 95% destruction efficiency or 0.26 pounds of HAPs/gallon coating solids after control.

Capture efficiency testing for the five lines and destruction efficiency testing for the associated oxidizer were conducted November, 2006.

See attached worksheets for PTE calculations.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the rule citation and/or permit with the condition number. If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R13-2295D, Condition: 4.1.12

MACT Subpart KKKK - 0.26 lbs HAPs/gallon coating solids or 95% overall control efficiency.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

All appropriate Monitoring/Recordkeeping/Reporting requirements appear in Permit R30-00900027-2008 (Part 2 of 2), Section 5.0.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 006-01 & 006-02	Emission unit name: Planeta Lithography line PC-8	List any control devices associated with this emission unit. None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 This line applies UV ink and UV varnish to pre-cut sheets. The sheets then pass through a UV curing station and are either transferred to the end department to be pressed into ends or shipped off site to be made into food can bodies. Actual emissions from the process, which are uncontrolled, amounted to less than 1.5 tons in 2006.

Manufacturer: Planeta	Model number: Unknown	Serial number: Unknown
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Construction date: 1999	Installation date: 1999	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): The
 At maximum operating rate, the line could use 4.46 gallons of coating/hr. and 350 gallons solvent (primarily acetone)/yr.

Maximum Hourly Throughput: 7,200 sheets/hr	Maximum Annual Throughput: 63,072,000 sheets/yr	Maximum Operating Schedule: 8,760 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.32	1.35
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	0.32	1.35
Individual HAPS	Xylene, Ethyl Benzene	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Potential VOC emissions are based on permit conditions.</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the rule citation and/or permit with the condition number. If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Permit R-13-2295D, Condition 4.1.10

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring/Recordkeeping/Reporting requirements appear in Permit R132295D, Sections 4.2, 4.3 & 4.4.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 001-02, 04, 06, 08, 10 & 12 003-02, 04, 06, 08 & 10 007-02 C-1, 2, 3 & 4 TO-1, TO-2, 0001 (2 RTOs) & 0003	Emission unit name: All gas burning equipment (16 ovens and 5 oxidizers)	List any control devices associated with this emission unit. None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Ball is requesting one facility-wide limit for criteria pollutants emitted as the products of natural gas combustion.

Manufacturer: Various (see attached gas calcs.)	Model number: Unknown	Serial number: Various (see attached gas calcs.)
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Construction date: Unknown	Installation date: Various (see attached gas calcs.)	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 Various (see attached gas calcs.)

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input checked="" type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	--

Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners: Various (see attached gas calcs.)
--	--

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Natural gas (see attached gas calcs.)

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	NA	NA	1000 BTU/cu ft

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	3.84	16.80
Nitrogen Oxides (NO _x)	4.57	20.00
Lead (Pb)	0.00	0.00
Particulate Matter (PM ₁₀)	0.35	1.52
Total Particulate Matter (TSP)	0.35	1.52
Sulfur Dioxide (SO ₂)	0.03	0.12
Volatile Organic Compounds (VOC)	0.25	1.10
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Emissions are based on a requested natural gas limit of 520 mmscf/year and AP-42 calculations (see attached calculations).</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the rule citation and/or permit with the condition number. If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

The facility's current natural gas limits are inconsistent and incomplete. Below is a list of R-13 permit conditions containing limits on various sources:

R13-2111A: A.2., A.4.

R13-1458D: 4.1.7

R13-2295D: 4.1.11

The Condition in R13-2295D is a facility-wide condition. Ball would like to retain this contain and eliminate the R13-2111A and R13-1458D conditions as they are unnecessary.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Because the facility does not have gas meters on each individual piece of equipment, it is impossible to provide source-specific emissions with accuracy. Ball is requesting only the facility-wide emissions limits which will be calculated using total facility natural gas usage (for regulated and non-regulated equipment) on a monthly basis.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: TO-1	List all emission units associated with this control device. C-1, C-2, C-3 (Coaters 1, 2 & 3)
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Manufacturer: MEGTEC Cleanswitch RTO	Model number: CSII-200-HT	Installation date: 2009
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input checked="" type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator		<input type="checkbox"/> Dry Plate Electrostatic Precipitator

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	(Overall) Control Efficiency
VOCs & HAPs	100% (PTI)	98% (permitted), 99.6% (tested)

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Regenerative thermal oxidizer
 Residence time - 0.54 s average
 Outlet velocity - 19,000 scfm
 Burner - 4.0 MMBtu/hr max.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No (MACT supersedes CAM)
If Yes, Complete ATTACHMENT H

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- 1) Incinerator temperature
- 2) PTI pressures
- 3) Bypass damper positions

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:
TO-2

List all emission units associated with this control device.
C-4 (Coater 4)

Manufacturer:
Catalytic Products

Model number:
SR-6000

Installation date:
1997

Type of Air Pollution Control Device:

- | | | |
|---|--|---|
| <input type="checkbox"/> Baghouse/Fabric Filter | <input type="checkbox"/> Venturi Scrubber | <input type="checkbox"/> Multiclone |
| <input type="checkbox"/> Carbon Bed Adsorber | <input type="checkbox"/> Packed Tower Scrubber | <input type="checkbox"/> Single Cyclone |
| <input type="checkbox"/> Carbon Drum(s) | <input type="checkbox"/> Other Wet Scrubber | <input type="checkbox"/> Cyclone Bank |
| <input type="checkbox"/> Catalytic Incinerator | <input type="checkbox"/> Condenser | <input type="checkbox"/> Settling Chamber |
| <input checked="" type="checkbox"/> Thermal Incinerator | <input type="checkbox"/> Flare | <input type="checkbox"/> Other (describe) _____ |
| <input type="checkbox"/> Wet Plate Electrostatic Precipitator | | <input type="checkbox"/> Dry Plate Electrostatic Precipitator |

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
VOCs, HAPs	100%	99% (permitted) ,99.5% (tested)

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Recuperative oxidizer (heat used for curing oven)
 Residence time - 0.5 seconds
 Outlet velocity - 5282 dscfm
 Burner - 6.8 MMBtu/hr max.

Is this device subject to the CAM requirements of 40 C.F.R. 64? __ Yes No (MACT supersedes CAM)

If Yes, Complete ATTACHMENT H

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- 1) Incinerator temperature
- 2) PTE Pressure
- 3) Bypass damper position

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 0001	List all emission units associated with this control device. A) 001-01 to 001-12 (Coating lines C-5 through C-10 - All) B) 002-01 to 002-13, 003-01 to 003-10 (litho lines PC-3 to PC 7 - All)	
Manufacturer: Smith	Model number: 14104A & B	Installation date: 2000

Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input checked="" type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	(Overall) Control Efficiency
VOCs & HAPs	A) 100% - PTE on lines C-5 to 10	95% (permitted), 98.2% (tested)
"	B) 94.24% - 96.52%	92.54% - 94.78% (tested)

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

IE is a 2-canister regenerative thermal oxidizer with a common stack
 Outlet velocity – 40,000 scfm X 2
 Burners – (2) 6.6 MMBtu/hr rated

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No (MACT supersedes CAM)

If Yes, Complete ATTACHMENT H

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- 4) Incinerator temperature
- 5) Incinerator inlet duct pressure
- 6) PTE pressures

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:
0003

List all emission units associated with this control device.
007-01 to 007-02 (Coating line C-11)

Manufacturer:
LTG

Model number:
4040

Installation date:
2008

Type of Air Pollution Control Device:

- | | | |
|---|--|---|
| <input type="checkbox"/> Baghouse/Fabric Filter | <input type="checkbox"/> Venturi Scrubber | <input type="checkbox"/> Multiclone |
| <input type="checkbox"/> Carbon Bed Adsorber | <input type="checkbox"/> Packed Tower Scrubber | <input type="checkbox"/> Single Cyclone |
| <input type="checkbox"/> Carbon Drum(s) | <input type="checkbox"/> Other Wet Scrubber | <input type="checkbox"/> Cyclone Bank |
| <input type="checkbox"/> Catalytic Incinerator | <input type="checkbox"/> Condenser | <input type="checkbox"/> Settling Chamber |
| <input checked="" type="checkbox"/> Thermal Incinerator | <input type="checkbox"/> Flare | <input type="checkbox"/> Other (describe) _____ |
| <input type="checkbox"/> Wet Plate Electrostatic Precipitator | | <input type="checkbox"/> Dry Plate Electrostatic Precipitator |

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
VOCs, HAPs	C) 100% - PTE on line C-11	97% (permitted), 99.4% (tested)

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Chamber Volume – 120 cu ft Chamber Temp. – 1400 F
 Outlet velocity – 3200 scfm
 Burner – 6.8 MMBtu/hr max.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No (MACT supersedes CAM)

If Yes, Complete ATTACHMENT H

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- 1) Incinerator temperature
- 2) PTE pressure

VOC Emission Calculations - Weirton Coaters

Potential to Emit:

Coater C-1

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (98.0% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.30	=	2.95		2.00%	=	0.06		0.46	=	4.00
					=	177.13			=	3.54		2.00	=	17.52
					=	775.81			=	15.52		2.00	=	17.52

Coater C-2

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (98.0% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.30	=	2.95		2.00%	=	0.06		0.46	=	4.00
					=	177.13			=	3.54		2.00	=	17.52
					=	775.81			=	15.52		2.00	=	17.52

Coater C-3

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (98.0% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.30	=	2.95		2.00%	=	0.06		0.46	=	4.00
					=	177.13			=	3.54		2.00	=	17.52
					=	775.81			=	15.52		2.00	=	17.52

C-3 UV

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (98.0% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.001280		100		0.24	=	0.03		2.00%	=	0.00		0.04	=	0.04
					=	1.84			=	0.04		0.16	=	0.16
					=	8.07			=	0.16		0.16	=	0.16

Coater C-4

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (99% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		130		5.30	=	3.84		1.00%	=	0.04		0.46	=	2.76
					=	230.26			=	2.30		2.00	=	12.09
					=	1008.56			=	10.09		2.00	=	12.09

Coater C-5

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content** (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (95.0% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.99	=	3.34		5.00%	=	0.17		0.46	=	10.47
					=	200.19			=	10.01		2.00	=	45.84
					=	876.81			=	43.84		2.00	=	45.84

Coater C-6

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content** (lb/gal)	=	Uncontrolled VOC Emissions	X	Control (95.0% efficiency)	=	Controlled VOC Emissions	+	Solvent Emissions	=	Total Emissions
0.005570		100		5.99	=	3.34 (lb/min)		5.00%	=	0.17 (lb/min)		0.46 (lb/hour)		10.47 (lb/hour)
					=	200.19 (lb/hour)			=	10.01 (ton/year)		2.00 (ton/year)		45.84 (ton/year)

Coater C-7

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content** (lb/gal)	=	Uncontrolled VOC Emissions	X	Control (95.0% efficiency)	=	Controlled VOC Emissions	+	Solvent Emissions	=	Total Emissions
0.005570		100		5.99	=	3.34 (lb/min)		5.00%	=	0.17 (lb/min)		0.46 (lb/hour)		10.47 (lb/hour)
					=	200.19 (lb/hour)			=	10.01 (ton/year)		2.00 (ton/year)		45.84 (ton/year)

Coater C-8

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content** (lb/gal)	=	Uncontrolled VOC Emissions	X	Control (95.0% efficiency)	=	Controlled VOC Emissions	+	Solvent Emissions	=	Total Emissions
0.005570		100		5.99	=	3.34 (lb/min)		5.00%	=	0.17 (lb/min)		0.46 (lb/hour)		10.47 (lb/hour)
					=	200.19 (lb/hour)			=	10.01 (ton/year)		2.00 (ton/year)		45.84 (ton/year)

Coater C-9

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content** (lb/gal)	=	Uncontrolled VOC Emissions	X	Control (95.0% efficiency)	=	Controlled VOC Emissions	+	Solvent Emissions	=	Total Emissions
0.005570		100		5.99	=	3.34 (lb/min)		5.00%	=	0.17 (lb/min)		0.46 (lb/hour)		10.47 (lb/hour)
					=	200.19 (lb/hour)			=	10.01 (ton/year)		2.00 (ton/year)		45.84 (ton/year)

Coater C-10

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content** (lb/gal)	=	Uncontrolled VOC Emissions	X	Control (95.0% efficiency)	=	Controlled VOC Emissions	+	Solvent Emissions	=	Total Emissions
0.005570		100		5.99	=	3.34 (lb/min)		5.00%	=	0.17 (lb/min)		0.46 (lb/hour)		10.47 (lb/hour)
					=	200.19 (lb/hour)			=	10.01 (ton/year)		2.00 (ton/year)		45.84 (ton/year)

Coater C-11

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions	X	Control (97% efficiency)	=	Controlled VOC Emissions	+	Solvent Emissions	=	Total Emissions
0.005570		130		5.30	=	3.84 (lb/min)		3.00%	=	0.12 (lb/min)		0.46 (lb/hour)		7.36 (lb/hour)
					=	230.26 (lb/hour)			=	6.91 (ton/year)		2.00 (ton/year)		32.26 (ton/year)

Coaters VOC PTE

85.0 lb/hr
372.1 ton/year

VOC Emission Calculations - Weirton Lithography Lines

Potential to Emit:

PC-3

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (85.5% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Ink & Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.8	=	3.23		14.50%	=	0.47		0.23	=	28.33 (lb/hour)
					=	193.84			=	28.11		1.00	=	124.11 (ton/year)
					=	849.00			=	123.11			=	124.11 (ton/year)

PC-4

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (85.5% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Ink & Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.8	=	3.23		14.50%	=	0.47		0.23	=	28.33 (lb/hour)
					=	193.84			=	28.11		1.00	=	124.11 (ton/year)
					=	849.00			=	123.11			=	124.11 (ton/year)

PC-5

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (85.5% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Ink & Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.8	=	3.23		14.50%	=	0.47		0.23	=	28.33 (lb/hour)
					=	193.84			=	28.11		1.00	=	124.11 (ton/year)
					=	849.00			=	123.11			=	124.11 (ton/year)

PC-6

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content*** (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (85.5% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Ink & Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.8	=	3.23		14.50%	=	0.47		0.23	=	28.33 (lb/hour)
					=	193.84			=	28.11		1.00	=	124.11 (ton/year)
					=	849.00			=	123.11			=	124.11 (ton/year)

PC-7

Coating Application Rate (gal/sheet)	X	Output (sheets/min)	X	VOC Content* (lb/gal)	=	Uncontrolled VOC Emissions (lb/min)	X	Control (85.5% efficiency)	=	Controlled VOC Emissions (lb/min)	+	Ink & Solvent Emissions (lb/min)	=	Total Emissions (lb/min)
0.005570		100		5.8	=	3.23		14.50%	=	0.47		0.23	=	28.33 (lb/hour)
					=	193.84			=	28.11		1.00	=	124.11 (ton/year)
					=	849.00			=	123.11			=	124.11 (ton/year)

Coaters VOC PTE

141.7 lb/hr
620.5 ton/year

Multi-Die End Lines

Weirton, WV

Potential to Emit - MD-1

Compound emissions:

0.000246 lbs compound/end X	85800 ends/hr	=	21.11 lbs compound/hr X	42.7% VOC by wt.	=	9.01 lb VOC/hr
		=	184,896 lbs compound/yr		=	39.48 tons VOC/yr

Mist solution emissions:

0.000282 oz solution/end X	85800 ends/hr	=	24.20 oz solution/hr			
		=	0.1890 gal solution /hr X	5.6 lb VOC/gal	=	1.06 lb VOC/hr
						4.64 tons/yr

MD-1 Totals:	10.07 lb VOC/hr	44.11 tons VOC/yr
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Potential to Emit - MD-3

Compound emissions:

0.000246 lbs compound/end X	85800 ends/hr	=	21.11 lbs compound/hr X	42.7% VOC by wt.	=	9.01 lb VOC/hr
		=	184,896 lbs compound/yr		=	39.48 tons VOC/yr

Mist solution emissions:

0.000282 oz solution/end X	85800 ends/hr	=	24.20 oz solution/hr			
		=	0.1890 gal solution /hr X	5.6 lb VOC/gal	=	1.06 lb VOC/hr
						4.64 tons/yr

MD-3 Totals:	10.07 lb VOC/hr	44.11 tons VOC/yr
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Potential to Emit - MD-4

Compound emissions:

0.000246 lbs compound/end X	85800 ends/hr	=	21.11 lbs compound/hr X	42.7% VOC by wt.	=	9.01 lb VOC/hr
		=	184,896 lbs compound/yr		=	39.48 tons VOC/yr

Mist solution emissions:

0.000282 oz solution/end X	85800 ends/hr	=	24.20 oz solution/hr			
		=	0.1890 gal solution /hr X	5.6 lb VOC/gal	=	1.06 lb VOC/hr
						4.64 tons/yr

MD-4 Totals:	10.07 lb VOC/hr	44.11 tons VOC/yr
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Potential to Emit - MD-5

Compound emissions:

0.000268 lbs compound/end X	75000 ends/hr	=	20.10 lbs compound/hr X	42.7% VOC by wt.	=	8.58 lb VOC/hr
		=	176,076 lbs compound/yr		=	37.59 tons VOC/yr

Mist solution emissions:

0.000282 oz solution/end X	75000 ends/hr	=	21.15 oz solution/hr			
		=	0.1652 gal solution /hr X	5.6 lb VOC/gal	=	0.93 lb VOC/hr
						4.05 tons/yr

MD-5 Totals:	9.51 lb VOC/hr	41.65 tons VOC/yr
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Based on W.R. Grace Darex 9385EG-1 end compound

Dept. Total:	39.7 lb VOC/hr	174.0 tons VOC/yr
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Potential to emit HAPs - All lines

NOTE: The facility's Can Making MACT Subpart KKKK, does not allow for HAPs in end compound.

EPA has indicated that compound containing less than 0.5% HAPs by weight complies with MACT Subpart KKKK.

Source Name MMBTU/hr

Coater Line 1 Oven	9
Coater Line 2 Oven	11
Coater Line 3 Oven	10.4
MEGTEC Oxidizer	4
Coater Line 4 Oven & Oxidizer	6.8
Coater Line 5 Oven	14.4
Coater Line 6 Oven	11
Coater Line 7 Oven	11
Coater Line 8 Oven	11
Coater Line 9 Oven	11
Coater Line 10 Oven	11
Coater Line 11 Oven & Oxidizer	6.8
Litho Line 1 Oven	9
Litho Line 2 Oven	9
Litho Line 3 Oven	9
Litho Line 4 Oven	9
Litho Line 5 Oven	9
Smith Oxidizers	13.2
Total	175.6

Theoretical Maximum Emission Calculations for Natural Gas Consumption

Emission factors based on AP-42 Table 1.4-1
3/98 revised edition

1) Unit Description: Weirton - 33 & 720
 2) Burner Capacity: 175.6 MMBtu/hr
 4) Control: None

Calculations:

CO:	175.6 MMBtu/hr /	1000 MMscf/MMbtu X	84.0 lb/MMscf X	7860 hr/yr /	2000	lbs/ton =	58.0 tons/yr
NOx:	175.6 MMBtu/hr /	1000 MMscf/MMbtu X	100.0 lb/MMscf X	7860 hr/yr /	2000	lbs/ton =	69.0 tons/yr
PM:	175.6 MMBtu/hr /	1000 MMscf/MMbtu X	7.60 lb/MMscf X	7860 hr/yr /	2000	lbs/ton =	5.2 tons/yr
SO ₂ :	175.6 MMBtu/hr /	1000 MMscf/MMbtu X	0.60 lb/MMscf X	7860 hr/yr /	2000	lbs/ton =	0.4 tons/yr
VOC:	175.6 MMBtu/hr /	1000 MMscf/MMbtu X	5.50 lb/MMscf X	7860 hr/yr /	2000	lbs/ton =	3.8 tons/yr
Lead	175.6 MMBtu/hr /	1000 MMscf/MMbtu X	0.0005 lb/MMscf X	7860 hr/yr /	2000	lbs/ton =	0.0 tons/yr

Currently Permitted Emission Calculations for Natural Gas Consumption

Emission factors based on AP-42 Table 1.4-1
3/98 revised edition

1) Unit Description: Oxidizer
 2) Burner Size: 10 MMBtu/hr
 3) Gas Usage: 520 MMscf
 4) Control: None

Calculations:

CO:	520 MMscf X	84.0 lb/MMscf /	2000 lb/ton =	21.84 tons/yr
NOx:	520 MMscf X	100.0 lb/MMscf /	2000 lb/ton =	26.00 tons/yr
PM:	520 MMscf X	7.60 lb/MMscf /	2000 lb/ton =	1.98 tons/yr
SO ₂ :	520 MMscf X	0.60 lb/MMscf /	2000 lb/ton =	0.16 tons/yr
VOC:	520 MMscf X	5.50 lb/MMscf /	2000 lb/ton =	1.43 tons/yr

Water-Based Multi-Die End Line

Weirton, WV

Potential to Emit - End Line

257 lbs compound/MM ends X	752 MM ends/yr X	0.00% VOC /	2000 lb/ton =	0.00 tons VOC/yr
			=	0.00 lbs VOC/hr
257 lbs compound/MM ends X	752 MM ends/yr X	0.50% ammonia /	2000 lb/ton =	0.48 tons ammonia/yr
			=	0.11 lbs ammonia/hr

Based on WR Grace WBC 4801-62 end compound, with a VOC content of 0.0% and an ammonia content of less than 0.5%.

Annual 2010

Annual VOC Summary

C-1 Total	19,279	Plant Gas	1,512	MD-1	46,279
C-2 Total	11,972			MD-2	0
C-3 Total	10,806	33 Solvent	14,605	MD-3	45,441
C-4 Total	3,423			MD-4	59,619
C-5 to C-10 Total	22,983	720 Solvent	12,332	MD-5	49,645
C-11 Total	2,557				
L-1 to L-5 Total	8,947				
L-6 Total	632				
Coater Total	80,598	Solvent & Gas Total	28,449	End Total	200,984

12- Month Rolling VOC Summary

MONTH	33 minus 4& VOCs	C-4 VOCs	C-5 to C-10 VOCs	C-11 VOCs	L-1 to L-5 VOCs	L-6 VOCs	720 Solv. VOCs	Plant Total VOCs
Jan-10	30,700	249	2,395	250	1,400	17	910	35,920
Feb-10	31,444	252	2,009	251	1,306	15	1,136	36,413
Mar-10	35,513	259	2,913	282	1,216	19	1,445	41,647
Apr-10	23,792	301	1,983	258	644	63	622	27,663
May-10	20,854	309	2,404	267	489	55	1,095	25,473
Jun-10	18,413	334	1,615	168	1,072	68	1,362	23,033
Jul-10	14,710	286	1,471	234	597	49	1,010	18,357
Aug-10	17,537	317	1,947	234	524	93	1,010	21,662
Sep-10	17,794	289	2,724	146	623	72	1,177	22,826
Oct-10	20,382	292	1,841	60	288	75	1,005	23,942
Nov-10	15,618	202	849	209	606	70	679	18,234
Dec-10	12,371	208	796	206	277	47	881	14,788
Rolling 12-	259,130	3,299	22,946	2,566	9,040	644	12,332	309,958
Permit Lim	446,000	20,832		60,520		2,700		
In Complia	YES	YES		YES		YES		