



Environmental Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

4/4/2011

Certified Mail

Tracie Sorvillo  
Ball Container LLC  
350 McCormick Blvd.  
Columbus, OH 43213-1586

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL  
Facility ID: 0125040914  
Permit Number: P0107229  
Permit Type: OAC Chapter 3745-31 Modification  
County: Franklin

No	TOXIC REVIEW
No	PSD
Yes	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, The Columbus Dispatch. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Issued Air Pollution Control Permits" link. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall  
Permit Review/Development Section  
Ohio EPA, DAPC  
50 West Town Street, Suite 700  
P.O. Box 1049  
Columbus, Ohio 43216-1049

and Ohio EPA DAPC, Central District Office  
50 West Town Street, 6th Floor  
P.O. Box 1049  
Columbus, OH 43216-1049

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 - Via E-Mail Notification  
Ohio EPA-CDO





## Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

- K007 (Can Line 1) – includes washer and drying oven; printer, over varnisher, bottom varnisher, and oven; inside sprayer and oven; and cleanup solvent usages. Line makes 8 or 12 ounce beer or soda cans, and has two decorators which can give a double bump of white for 8 ounce cans only. The bottleneck is the decorators and the cupper/bodymaker is much faster.
- K008 (Can Line 2) - includes washer and drying oven; printer, over varnisher, bottom varnisher, and oven; inside sprayer and oven; and cleanup solvent usages. Line makes 12 ounce beer or soda cans only, and has two decorators.
- K009 (Can Line 3) - includes washer and drying oven; printer, over varnisher, bottom varnisher, and oven; inside sprayer and oven; and cleanup solvent usages. Line makes 12 ounce beer or soda cans only, and has two decorators.
- K010 - includes washer and drying oven; printer, over varnisher, bottom varnisher, and oven; inside sprayer and oven; and cleanup solvent usages. Line makes 8 or 12 ounce beer or soda cans (only line to make 12 ounce Budweiser cans), and has one decorator and one base coater with six colors possible plus varnish. Line 4 is the only line to base-color and paint over. This is the slowest line at the facility because it only has one decorator and one basecoater.

3. Facility Emissions and Attainment Status:

The facility's Title V PTO has a facility-wide limit of 383.70 tpy for VOC. The current modification request will reduce facility-wide VOC emissions to 349.87 tpy. Franklin County is currently in attainment with the ozone standard.

4. Source Emissions:

Projected VOC PTE Calculations				
Coating	Density (lb/gal)	VOC content (% wt)	Usage rate* (gal/yr)	VOC emissions (tpy)
Basecoat	10.85	8.30	31331	14.11
Inside Spray	8.45	13.30	521161	292.85
Varnish	8.8	8.90	193842	75.91
Ink	10.85	13.50	24924	18.25
Solvent	6.5	100	2862	9.37



Dot Jet Ink	7.33	91	156	0.35
Dot Jet Ink - Solvent	6.91	96.40		
Videojet Ink	7.09	100		
Videojet Makeup	6.68	100		
<b>TOTAL</b>				<b>410.84</b>

Requested VOC Emission Limitation				
Coating	Density (lb/gal)	VOC content (% wt)	Usage rate (gal/yr)	VOC emissions (tpy)
Basecoat	10.85	8.30	27651	12.45
Inside Spray	8.45	13.30	443387	249.15
Varnish	8.8	8.90	166787	64.58
Ink	10.85	13.50	21205	15.59
Solvent	6.5	100	2300	7.53
Dot Jet Ink	7.33	91	120	0.35
Dot Jet Ink - Solvent	6.91	96.40	35	0.09
Videojet Ink	7.09	100	30	0.07
Videojet Makeup	6.68	100	40	0.07
<b>TOTAL</b>				<b>349.87</b>

5. Conclusion:

BAT limits do not require a lb/hr limit for these emissions units, so facility-wide synthetic minor limits were evaluated. The permittee has requested a facility-wide, annual VOC emission limit of 349.87 tpy and individual line production limits of 1850 (for K007-K009) and 1750 (for K010) cans/minute. The permittee has also requested an increase in the annual production limit to 3,250,000,000 cans/yr. The requested production increases will not result in an increase in emission greater than 349.87 tpy because the facility was over reporting the VOC content for their varnish.

This permit seeks to institute federally enforceable restrictions on the facility's annual emission limitation and production rates to avoid a significant modification. The new PTE for the can lines will be limited by the federally enforceable facility-wide VOC emission limitation. This facility-wide limitation is more stringent than the existing limitations that are already established under PTI P0104113.

6. Please provide additional notes or comments as necessary:

None

7. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year</u>
<u>VOC</u>	<u>349.87</u>



PUBLIC NOTICE  
Issuance of Draft Air Pollution Permit-To-Install  
Ball Container LLC

Issue Date: 4/4/2011  
Permit Number: P0107229  
Permit Type: OAC Chapter 3745-31 Modification  
Permit Description: Chapter 31 modification for Ball Container LLC in increase line speeds on four aluminum beverage cans coating lines  
Facility ID: 0125040914  
Facility Location: Ball Container LLC  
350 McCormick Boulevard,  
Columbus, OH 43213-1586  
Facility Description: Metal Can Manufacturing

Scott J. Nally, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio, has issued a draft action of an air pollution control permit-to-install (PTI) for an air contaminant source at the location identified above on the date indicated. Installation of the air contaminant source may proceed upon final issuance of the PTI. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Stephanie Habinak at Ohio EPA DAPC, Central District Office, 50 West Town Street, 6th Floor P.O. Box 1049, Columbus, OH 43216-1049 or (614)728-3778. The permit can be downloaded from the Web page: [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc)





**DRAFT**

**Division of Air Pollution Control  
Permit-to-Install  
for  
Ball Container LLC**

Facility ID: 0125040914  
Permit Number: P0107229  
Permit Type: OAC Chapter 3745-31 Modification  
Issued: 4/4/2011  
Effective: To be entered upon final issuance





Division of Air Pollution Control
Permit-to-Install
for
Ball Container LLC

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## Authorization

Facility ID: 0125040914  
Facility Description: Metal cans  
Application Number(s): A0040719, A0041093, A0041155  
Permit Number: P0107229  
Permit Description: Chapter 31 modification for Ball Container LLC in increase line speeds on four aluminum beverage cans coating lines  
Permit Type: OAC Chapter 3745-31 Modification  
Permit Fee: \$400.00 *DO NOT send payment at this time, subject to change before final issuance*  
Issue Date: 4/4/2011  
Effective Date: To be entered upon final issuance

This document constitutes issuance to:

Ball Container LLC  
350 McCormick Boulevard  
Columbus, OH 43213-1586

of a Permit-to-Install for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office  
50 West Town Street, 6th Floor  
P.O. Box 1049  
Columbus, OH 43216-1049  
(614)728-3778

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally  
Director



## Authorization (continued)

Permit Number: P0107229  
Permit Description: Chapter 31 modification for Ball Container LLC in increase line speeds on four aluminum beverage cans coating lines

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

- |                                   |                |
|-----------------------------------|----------------|
| <b>Emissions Unit ID:</b>         | <b>K007</b>    |
| Company Equipment ID:             | Can Line No. 1 |
| Superseded Permit Number:         | P0104113       |
| General Permit Category and Type: | Not Applicable |
| <b>Emissions Unit ID:</b>         | <b>K008</b>    |
| Company Equipment ID:             | Can Line No. 2 |
| Superseded Permit Number:         | P0104113       |
| General Permit Category and Type: | Not Applicable |
| <b>Emissions Unit ID:</b>         | <b>K009</b>    |
| Company Equipment ID:             | Can Line No. 3 |
| Superseded Permit Number:         | P0104113       |
| General Permit Category and Type: | Not Applicable |
| <b>Emissions Unit ID:</b>         | <b>K010</b>    |
| Company Equipment ID:             | Can Line No. 4 |
| Superseded Permit Number:         | P0104113       |
| General Permit Category and Type: | Not Applicable |



## **A. Standard Terms and Conditions**



**1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
  - (1) Standard Term and Condition A.2.a), Severability Clause
  - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
  - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
  - (4) Standard Term and Condition A.9., Reporting Requirements
  - (5) Standard Term and Condition A.10., Applicability
  - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
  - (7) Standard Term and Condition A.14., Public Disclosure
  - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
  - (9) Standard Term and Condition A.16., Fees
  - (10) Standard Term and Condition A.17., Permit Transfers

**2. Severability Clause**

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

**3. General Requirements**

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.

- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

#### **4. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Central District Office.
  - (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations,

excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Central District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.

- (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Central District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## 5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Central District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## 6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Central District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

## **7. Best Available Technology**

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

## **8. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

## **9. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Central District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Central District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a

quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**10. Applicability**

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**11. Construction of New Sources(s) and Authorization to Install**

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All

records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

## 12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

## 13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

## 14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

## 15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.



**16. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**17. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

**18. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

**19. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

## **B. Facility-Wide Terms and Conditions**

**Effective Date:** To be entered upon final issuance

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
  - a) None.

## **C. Emissions Unit Terms and Conditions**



1. Emissions Unit Group - Two piece can coating lines: K007, K008, K009, K010,

Table with 2 columns: EU ID and Operations, Property and/or Equipment Description. Rows include K007, K008, K009, and K010 with detailed descriptions of their respective can coating lines.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
(1) None.
b) Applicable Emissions Limitations and/or Control Requirements
(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures.

Table with 3 columns: ID, Applicable Rules/Requirements, and Applicable Emissions Limitations/Control Measures. It details specific rules like OAC rule 3745-17-07(A)(1) and VOC emissions limits for coatings.

**Draft Permit-to-Install**

Ball Container LLC

**Permit Number:** P0107229**Facility ID:** 0125040914**Effective Date:** To be entered upon final issuance

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Inside Spray: 3.7 lb VOC/gal coating excluding water and exempt solvents; and,</p> <p>Rim Varnish: 2.3 lb VOC/gal coating excluding water and exempt solvents.</p> <p><u>Emissions from the combustion of natural gas as fuel in the ovens shall not exceed the following:</u></p> <p>15.5 lbs of nitrogen oxide (NOx)/hr and 67.9 tons of NOx/yr;</p> <p>13.02 lbs of carbon monoxide (CO)/hr and 57.0 tons of CO/yr;</p> <p>1.18 lbs of PE/hr and 5.16 tons of PE/yr;</p> <p>0.85 lbs of VOC/hr and 3.73 tons of VOC/yr;</p> <p>See b)(2)a. and b(2)b. below.</p>
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid PSD)	<p>VOC emissions from K007, K008, K009, and K010 shall not exceed, as a rolling 12-month summation, 349.87 tons per year from coating and cleanup material usage.</p> <p>See. b)(2)c., b)(2)d., b)(2)e. and b)(2)f. below.</p>
f.	OAC rule 3745-114-01	See d)(6)-(9) and e)(4)
g.	40 CFR Part 60, Subpart WW	The emissions limitations specified in this rule are less stringent than the limitations specified in OAC rule 3745-31-05(A)(3).

**(2) Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), OAC rule 3745-17-11(B)(2), and OAC rule 3745-17-07(A)(1).
- b. Each can line shall not exceed 1850 cans per minute for can lines K007, K008, K009 and 1750 cans per minute for can line K010, calculated as a monthly average.

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- c. The maximum production rate from emission units K007, K008, K009, and K010 shall not exceed a total of 3,250,000,000 cans coated per year, as a rolling, 12-month summation.
- d. Emission units K007, K008, K009, and K010 have been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the VOC emissions, upon issuance of this permit.
- e. The facility-wide individual and combined hazardous air pollutant (HAP) emissions are effectively limited to less than 9.9 tons and 24.9 tons per year, respectively by limiting the cans coated per year of K007-K010 to less than 3,250,000,000 cans coated per year.
- f. The maximum natural gas usage for K007, K008, K009, and K010 shall be limited to 310 million cubic feet (MMCF) per year, as a rolling, 12-month summation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the weekly check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Authority for term: OAC rule 3745-77-07(A)(3)]

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- (2) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

[Authority for term: OAC rule 3745-77-07(A)(3)(c)]

- (3) The permittee shall maintain monthly records of the following for emissions units K007, K008, K009, and K010:
- a. the company identification of each coating and cleanup material employed;
  - b. the name and identification number/code of each coating, thinner, additive, cleanup material, and any other material containing any HAP;
  - c. the total number of gallons of each coating and cleanup material employed;
  - d. the volatile organic compound (VOC), individual hazardous air pollutant (HAP), and total HAP content of each coating and cleanup material employed, in pounds per gallon;
  - e. the VOC, individual HAP, and total HAP emissions from each coating and cleanup material employed, in pounds;
  - f. the total VOC, individual HAP, and total HAP emissions from the emission units for all coatings and cleanup materials employed, in pounds;
  - g. the updated rolling, 12-month summation of the total VOC, individual HAP, and total HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.
  - h. the total gallons of all coatings and cleanup materials employed for all coatings and cleanup materials employed; and
  - i. the updated rolling, 12-month summation for usage of all coatings and cleanup materials employed, in gallons. This shall include the information for the current month and the preceding eleven calendar months.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (4) The permittee shall maintain monthly records of the following information:
- a. the average can speed of each line, in cans per minute;
  - b. the production rate for each month; and
  - c. the rolling, 12-month summation of the production rates.

[Authority for term: OAC rule 3745-77-07(C)(1)]

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- (5) The permittee shall collect and record the following for emissions units K007, K008, K009, and K010 on a monthly basis:
- a. the total natural gas usage, in MMCF; and
  - b. the rolling, 12-month summation of natural gas usage, in MMCF.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (6) The permittee shall collect and record the following information on a monthly basis for the coating and cleanup materials applied in each can line:
- a. the number of gallons of coating applied during the month;
  - b. the maximum daily volume-weighted average VOC content calculated for  $(C_{VOC,2})_A$  during the month;
  - c. the total VOC emissions from all coatings applied during the month, i.e., the product of the "a" times "b";
  - d. the name and identification of each cleanup material employed;
  - e. the VOC content of each cleanup material, in pounds per gallon;
  - f. the number of gallons of each cleanup material employed;
  - g. the total VOC emission rate from all cleanup materials, in pounds or tons, i.e., the summation of the products of "e" times "f" for all cleanup materials employed; and
  - h. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons, the sum of "c" and "g".

These monthly records shall be maintained for the purpose of determining annual VOC emissions for the emissions unit.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (7) The federally enforceable permit-to-install and operate (FEPTIO) application for this/these emissions unit(s), K007, K008, K009, and K010, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Toxic Air Contaminant Statute, ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled Review of New Sources of Air Toxic Emissions, Option A, as follows:
- a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic

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compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

- i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices; or
  - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
- b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
  - c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., X hours per day and Y days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$\text{TLV}/10 \times 8/X \times 5/Y = 4 \text{ TLV}/XY = \text{MAGLC}$$

- d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or worst case toxic contaminant(s):

Toxic Contaminant: Formaldehyde

TLV (mg/m<sup>3</sup>): 9 mg/m<sup>3</sup>

Maximum Hourly Emission Rate (lbs/hr): 0.337 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 4.56 ug/m<sup>3</sup>

MAGLC (ug/m<sup>3</sup>): 8.76

The permittee, has demonstrated that emissions of formaldehyde, from emissions units K007, K008, K009, and K010 is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the Toxic Air Contaminant Statute, ORC 3704.03(F).

[Authority for term: ORC 3704.03(F)(3)(c)-F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

- (8) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the

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predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
- c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the Toxic Air Contaminant Statute will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final FEPTIO prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term: ORC 3704.03(F)(3)(c)-F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

- (9) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F):
  - a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
  - b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the Toxic Air Contaminant Statute, ORC 3704.03(F);
  - c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

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- d. the documentation of the initial evaluation of compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term: ORC 3704.03(F)(3)(c)-F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

- (10) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the Toxic Air Contaminant Statute ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term: ORC 3704.03(F)(3)(c)-F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 349.87 tons VOC per year as a rolling, 12-month summation;
    - ii. a maximum production rate of 3,250,000,000 cans coated per year, as a rolling, 12-month summation.
    - iii. 310 MMCF of natural gas usage per year, as a rolling, 12-month summation;
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

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d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (3) The permittee shall notify the Central District Office in writing of each daily record showing an exceedance of the VOC content limitations in b)(1)d. above. The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days after the exceedance occurs.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (4) The permittee shall also submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (5) The permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the quarterly deviation (excursion) reports. If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

[Authority for term: ORC 3704.03(F)(3)(c)-F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) shall be determined in accordance with the following methods:

a. Emission Limitation:

Visible particulate emissions from each stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

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Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

[Authority for term: OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

1.72 lbs of PE per hour and 7.5 tons/yr from coating overspray

Applicable Compliance Method

Compliance with the hourly particulate emission limitation shall be based on the worst case scenario from inside spray determined by utilizing the following equation:

$$E = \text{inside spray application rate (gal/hr)} \times \text{density (lb/gal)} \times \text{solids content (\%)} \\ \times (1-TE) \times (1-CE) / \text{annual operating time (hr)}$$

Where:

E= particulate emission rate (lbs/hr)

TE= transfer efficiency

CE= capture efficiency

If required, the permittee shall determine compliance in accordance with 40 CFR Part 60, Appendix A, Method 5.

Compliance with the annual emission limitation may be demonstrated by multiplying the hourly emission limitation by a maximum operating schedule of 8760 hours per year and dividing by a conversion factor of 2000 pounds per ton.

[Authority for term: OAC rule 3745-77-07(C)(1)]

c. Emission Limitations:

Basecoat - 2.0 lbs VOC/gallon, excluding water and exempt solvents  
Overvarnish - 2.3 lbs VOC/ gallon, excluding water and exempt solvents  
Inside Spray - 3.7 lbs VOC/gallon, excluding water and exempt solvents  
Rim Varnish - 2.3 lb VOC/ gal excluding water and exempt solvents

Applicable Compliance Method

Compliance shall be based upon the recordkeeping requirements specified in section d)(3) of the terms and conditions of this permit. Formulation data

or USEPA Method 24 shall be used to determine the VOC contents of the coatings.

[Authority for term: OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

15.5 lbs NOx per hour from combustion of natural gas

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly emission limitation by multiplying the maximum MMCF of natural gas combusted/hour by the AP 42 factor of 100 lbs/MMCF (AP-42, Section 1.4, Table 1.4-1[7/98])

[Authority for term: OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

67.89 tons NOx per year from combustion of natural gas

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by multiplying the hourly emission limitation by a maximum operating schedule of 8760 hours per year and dividing by a conversion factor of 2000 lbs per ton.

[Authority for term: OAC rule 3745-77-07(C)(1)]

f. Emission Limitation:

13.02 lbs CO per hour from combustion of natural gas

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly emission limitation by multiplying the maximum MMCF of natural gas combusted/hour by the AP 42 factor of 84 lbs/MMCF (AP-42, Section 1.4, Table 1.4-1[7/98])

[Authority for term: OAC rule 3745-77-07(C)(1)]

g. Emission Limitation:

57.0 tons CO per year from combustion of natural gas

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by multiplying the hourly emission limitation by a maximum operating schedule

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of 8760 hours per year and dividing by a conversion factor of 2000 lbs per ton.

[Authority for term: OAC rule 3745-77-07(C)(1)]

h. Emission Limitation:

1.18 lbs PE per hour from combustion of natural gas

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly emission limitation by multiplying the maximum MMCF of natural gas combusted/hour by the AP 42 factor of 7.6 lbs/MMCF (AP-42, Section 1.4, Table 1.4-1[7/98])

[Authority for term: OAC rule 3745-77-07(C)(1)]

i. Emission Limitation:

5.16 tons PE per year from combustion of natural gas

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by multiplying the hourly emission limitation by a maximum operating schedule of 8760 hours per year and dividing by a conversion factor of 2000 lbs per ton.

[Authority for term: OAC rule 3745-77-07(C)(1)]

j. Emission Limitation:

VOC emissions from K007, K008, K009, and K010 shall not exceed, as a rolling 12-month summation, 349.87 tons per year from coating and cleanup material usage

Applicable Compliance Method:

Compliance shall be based upon the monitoring and record keeping specified in section d)(3).

[Authority for term: OAC rule 3745-77-07(C)(1)]

k. Emission Limitation:

HAP emissions from K007, K008, K009, and K010 shall not exceed 9.9 tpy for single HAP and 24.9 tpy for combined HAPs.

Applicable Compliance Method:

Compliance shall be based upon the monitoring and recordkeeping specified in section d)(3).

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[Authority for term: OAC rule 3745-77-07(C)(1)]

I. Emission Limitation:

Maximum production rate from emission units K007, K008, K009, and K010 shall not exceed 3,250,000,000 cans coated per year, as a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the monitoring and recordkeeping specified in section d)(4).

[Authority for term: OAC rule 3745-77-07(C)(1)]

m. Emission Limitation:

Maximum natural gas usage for K007, K008, K009, and K010 shall be limited to 310 million cubic feet (MMCF) per year, as a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the monitoring and recordkeeping specified in section d)(5)

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.