



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: December 18, 2025

Effective Date: December 18, 2025

Expiration Date: June 30, 2027

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 43-00270P

Federal Tax Id - Plant Code: 25-1510284-1

Owner Information

Name: CCL CONTAINER HERMITAGE INC

Mailing Address: 1 LLODIO DR  
HERMITAGE, PA 16148-9015

Plant Information

Plant: CCL CONTAINER/ADVANCED MONOBLOC AEROSOL DIV

Location: 43 Mercer County 43918 Hermitage City

SIC Code: 3411 Manufacturing - Metal Cans

Responsible Official

Name: LYNDIA YOUNG

Title: DIRECTOR OF FINANCE

Phone: (724) 815 - 9924

Email: lyoung@cclind.com

Plan Approval Contact Person

Name: BEVERLY KERSHNER

Title: DIRECTOR

Phone: (484) 553 - 6676

Email: bkershner@complianceplace.com

[Signature] \_\_\_\_\_

LORI L. MCNABB, NORTHWEST REGION AIR PROGRAM MANAGER

[Plan Approval Description](#)

The Department hereby issues plan approval 43-00270P to CCL Container authorizing the construction and initial operation of an additional can manufacturing line (Source 115).



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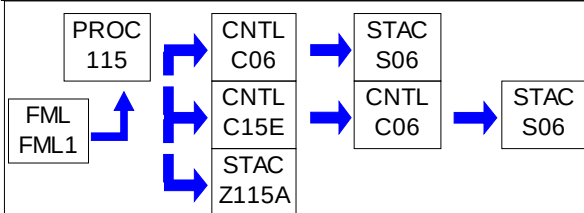
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**SECTION A. Plan Approval Inventory List**

| Source ID | Source Name                                                 | Capacity/Throughput | Fuel/Material |
|-----------|-------------------------------------------------------------|---------------------|---------------|
| 115       | AEROSOL CAN MANUF LINE 15                                   | N/A                 | Natural Gas   |
| C06       | ADWEST RTO (37,500 SCFM)                                    |                     |               |
| C15E      | INSIDE LINER BAGHOUSE #5 (LINES 12-13)                      |                     |               |
| FML1      | NATURAL GAS PIPELINE                                        |                     |               |
| S06       | ADWEST RTO STAC LINES 12 &13 IL,B&OV AND LINES 1,11,&14 B&O |                     |               |
| S07       | DURR RTO STACK                                              |                     |               |
| Z115A     | LINE 15 DECO STACK                                          |                     |               |

**PERMIT MAPS**

**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

**#002 [25 Pa. Code § 127.12b (a) (b)]****Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

**#003 [25 Pa. Code § 127.12b]****Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

**#004 [25 Pa. Code § 127.12(a) (10)]****Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

**#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]****Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

**#006 [25 Pa. Code § 127.12b]****Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

**#007 [25 Pa. Code § 127.32]****Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

**#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]****Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

**#009 [25 Pa. Code 127.13a]****Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

**#010 [25 Pa. Code §§ 121.9 & 127.216]****Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

**#011 [25 Pa. Code § 127.12c]****Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

**#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]****Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

**#013 [25 Pa. Code § 121.7]****Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

**#014 [25 Pa. Code § 127.25]****Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



## SECTION C. Site Level Plan Approval Requirements

### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

### IV. RECORDKEEPING REQUIREMENTS.

#### # 001 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

- a) All records required must be maintained onsite for a minimum of 5 years and may be maintained in electronic format.
- b) All required records must be readily available.
- c) The owner or operator of the facility shall generate and maintain records that clearly demonstrate to the Department that the facility is in compliance with all emission limitations. The Department reserves the right to request additional information necessary to determine compliance with the plan approval.
- d) All manually generated log entries used to comply with the recordkeeping requirements of this plan approval shall include the following:
  - 1) Time and date of observation
  - 2) Name, title, and signature of the person making the observation
  - 3) Any corrective action taken as result of the observation
- e) The permittee shall maintain records of all preventative maintenance, repairs, and inspections performed on monitoring equipment, sources, and control devices. These records shall contain the following at a minimum:
  - 1) Time and date of the task
  - 2) Name, title, and initials of the person performing the task
  - 3) A detailed description of any maintenance / inspection / repair performed
  - 4) Any problems or defects found
  - 5) Any corrective action taken as result of the task

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

### VI. WORK PRACTICE REQUIREMENTS.

#### # 002 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

- a) The permittee shall install, maintain, and operate sufficient instrumentation and monitoring equipment in order to comply with the recordkeeping requirements of this plan approval.
- b) A source may not operate without the full operational capacity of its associated control device(s).
- c) Sources operating on backup power must also have their associated control device(s) operating on backup power.



## SECTION C. Site Level Plan Approval Requirements

### VII. ADDITIONAL REQUIREMENTS.

#### # 003 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

- a) Any information required to be submitted as part of this plan approval should be submitted to the attention of New Source Review Section Chief, Air Quality Program, Northwest Regional Office, 230 Chestnut Street, Meadville, PA 16335.
- b) Issuance of an Operating Permit or incorporation of a plan approval into a current Operating Permit is contingent upon satisfactory compliance with the plan approval conditions, upon the source and control device being installed and operated as stated within the application, and upon satisfactory demonstration that the emissions from the source will not be in violation of applicable Rules and Regulations of the Department.
- c) If at any time the Department has reason to believe that the air contaminant emissions are, or may be, in excess of any applicable air contaminant emission limitation, the owner or operator shall conduct such stack tests or source tests requested by the Department to determine the actual air contaminant emission rate. The owner or operator shall perform any such testing in accordance with the applicable provisions of 25 Pa. Code, Chapter 139 (relating to sampling and testing) as well as in accordance with any additional requirements or conditions established by the Department at the time the owner or operator is notified, in writing, of the need to conduct testing.
- d) The permittee will perform additional testing via a third party when the Department conducts an inspection of the facility and subsequently determines that additional testing is warranted.
- e) All requirements of current plan approvals and the current operating permit (43-00270 issued by the Department on April 15, 2025, Authorization # 1451705) remain in effect, as applicable, unless modified by this plan approval. The conditions of this plan approval supersede the conditions of previous authorizations.
- f) This Source (115) is subject to the following group requirement sections as identified in the current syntenic minor operating permit 43-00270 (issued by the Department on April 15, 2025, Authorization # 1451705):
- 1) 25 PA. CODE § 129.52
  - 2) 25 PA. CODE § 129.67B
  - 3) A.O.S., 40 CFR 60 SUBPART WW
  - 4) CONTROL DEVICES C05 & C06
  - 5) EPA PART 51 METHOD 204 REQUIREMENTS

The above group requirements are also cited in this plan approval for reference purposes only.

- g) Some monitoring, work practice, and record keeping requirements of this plan approval necessitate the control device/source to be in operation and are therefore applicable only when the control device/source are in operation.

### VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

### IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

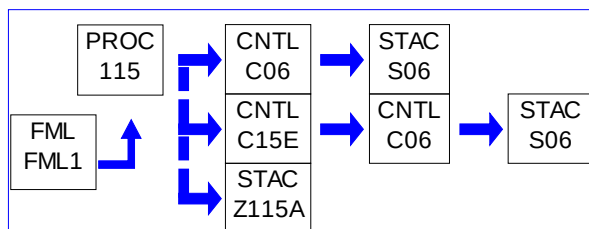
Source ID: 115

Source Name: AEROSOL CAN MANUF LINE 15

Source Capacity/Throughput:

N/A

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) No person may permit the emission of particulate matter into the outdoor atmosphere in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

(b) The permittee shall maintain the capture efficiency as demonstrated in the most recent Method 204 observation.

(c) For RTO inlet VOC concentrations greater than or equal to 100 ppm, the control device shall maintain a minimum overall VOC control efficiency of 98%. Compliance shall be demonstrated through Method 25A unless otherwise specified by the Department.

(d) For RTO inlet VOC concentrations less than 100 ppm, the RTO outlet VOC concentration shall not exceed 10 ppm. Compliance shall be demonstrated through Method 25A unless otherwise specified by the Department.

**# 003 [25 Pa. Code §129.52]****Surface coating processes**

Table 1 - Emission Limits of VOCs in Surface Coatings by Process Category

| Surface Coating Process Category | Weight of VOC per Volume of Coating Solids (CS) |                     |
|----------------------------------|-------------------------------------------------|---------------------|
|                                  | lbs VOC per gal CS                              | kg VOC per liter CS |
| (1) Can Coating                  |                                                 |                     |
| (a) Sheet basecoat               | 4.62                                            | 0.55                |
| (b) Can exterior                 | 4.62                                            | 0.55                |
| (c) Interior body spray          | 10.05                                           | 1.20                |
| (d) Two-piece can end exterior   | 10.05                                           | 1.20                |
| (e) Side-seam spray              | 21.92                                           | 2.63                |
| (f) End sealing compound         | 7.32                                            | 0.88                |

(2) - (11) [Not Applicable]

[With PA 43-270K requiring that a source may operate if its associated control device/s is operating, compliance with these VOC content limits is demonstrated through § 129.52(b)(2).]

**SECTION D. Source Level Plan Approval Requirements****# 004 [25 Pa. Code §129.67b]****Control of VOC emissions from offset lithographic printing presses and letterpress printing presses.**

(c) EMISSION LIMITS FOR CLEANING SOLUTIONS AND FOUNTAIN SOLUTIONS USED IN OR ON PRINTING PRESSES SUBJECT TO THIS SECTION.

(1) CLEANING SOLUTIONS. Beginning January 1, 2015, a person subject to subsection (a)(1)(i), (ii), (iii) or (iv) may not cause or permit the emission into the outdoor atmosphere of VOCs from cleaning solutions used in or on an offset lithographic printing press or a letterpress printing press unless the following conditions are met:

(i) The cleaning solutions used must meet one or both of the following VOC limits:

(A) A VOC composite partial vapor pressure less than 10 millimeters of mercury at 68°F (20°C).

(B) A VOC content less than 70% by weight.

(ii) The use of one or more cleaning solutions with a higher VOC composite partial vapor pressure or higher VOC content, or both, than is listed in subparagraph (i) is limited to 110 gallons per year, combined, of all cleaning solutions that exceed the limits in subparagraph (i).

(2) - (3) [Not Applicable. For fountain solutions.]

[For other applicable paragraphs of § 129.67b, see (a), (j), & (k) in VII. Additional Requirements, (e) in III. Monitoring Requirements, (f) in IV. Recordkeeping Requirements, and (i) in VI. Work Practice Requirements. Paragraph (g) is streamlined out by the 5-year recordkeeping requirement. Paragraphs (b), (d), (h), & (l) do not apply.]

**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.492]****Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry  
Standards for volatile organic compounds.**

On or after the date on which the initial performance test required by 60.8(a) is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge of VOC emissions to the atmosphere that exceed the following volume-weighted calendar-month average emissions:

(a) 0.29 kilogram of VOC per litre of coating solids from each two-piece can exterior base coating operation, except clear base coat;

(b) 0.46 kilogram of VOC per litre of coating solids from each two-piece can clear base coating operation and from each overvarnish coating operation; and

(c) 0.89 kilogram of VOC per litre of coating solids from each two-piece can inside spray coating operation.

[48 FR 38737, Aug. 25, 1983]

[Compliance with these limits can be either through use of compliant coatings, a capture system & a control device, a capture system & a recovery device. For two-piece beverage can (i.e., aluminum bottle) production, these limits streamline out those under 25 Pa. Code § 129.52.]

**Fuel Restriction(s).****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The source shall operate using only natural gas as a fuel.

**SECTION D. Source Level Plan Approval Requirements****Control Device Efficiency Restriction(s).****# 007 [25 Pa. Code §129.52]****Surface coating processes**

(b) A person may not cause or permit the emission into the outdoor atmosphere of VOCs from a surface coating process category listed in Table I, unless one of the following limitations is met:

(1) [Omitted. With PA 43-270K requiring that a source may operate if its associated control device/s is operating, compliance with § 129.52 is demonstrated through use of VOC control devices regardless of coatings used (compliant, non-compliant).]

(2) The overall weight of VOCs emitted to the atmosphere is reduced through the use of vapor recovery or incineration or another method which is acceptable under § 129.51(a) (relating to general). The overall efficiency of a control system, as determined by the test methods and procedures specified in Chapter 139 shall be no less than the equivalent overall efficiency calculated by the following equation:

$$O = (1 - E/V) \times 100$$

Where:

V = The VOC content of the as applied coating, in lb VOC/gal of coating solids or lb VOC/lb of coating solids.

E = Table I limit in lb VOC/gal of coating solids or lb VOC/lb of coating solids.

O = Overall control efficiency.

[PA 43-270K's (& § 60 Subpart WW) testing requirements will demonstrate compliance with the minimum overall control efficiency required by § 129.52(b)(2).]

(h) The VOC standards in Table I do not apply to a coating used exclusively for determining product quality and commercial acceptance, touch-up and repair and other small quantity coatings if the coating meets the following criteria:

(1) The quantity of coating used does not exceed 50 gallons per year for a single coating and a total of 200 gallons per year for all coatings combined for the facility.

(2) The owner or operator of the facility requests, in writing, and the Department approves, in writing, the exemption prior to use of the coating.

[For other paragraphs of § 129.52, (a) & (d) are incorporated in VII. Additional Requirements, (c) in IV. Recordkeeping Requirements. (g)'s 2-year recordkeeping requirement is streamlined out by PA 43-270K's 5-year recordkeeping requirement. (e), (f), (i), (j), & (k) do not apply.]

**II. TESTING REQUIREMENTS.****# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) Within 60 days of achieving the source's normal production rate but no later than one hundred and eighty (180) days after startup, a stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack testing program shall be performed while all lines exhausting to the control device are operating at their maximum achievable or normal rated capacity as stated on the application to determine the overall VOC control efficiency of the RTO (using EPA Method 25A other methods approved by the Department). Destruction efficiency testing shall be repeated once every five (5) years but not more than 60 months after the previous stack test.

An initial stack testing program shall also be performed when the inlet VOC concentration is between 20 and 100 ppmv to demonstrate that outlet concentrations comply with the applicable emission rate limitation.

At least 90 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The test protocol shall meet all applicable requirements specified in the most

**SECTION D. Source Level Plan Approval Requirements**

current version of the Department's Source Testing Manual. All proposed performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.

[The Department Source Testing Manual is available at this web address:  
<http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=4563> ]

(b) When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter, submitted at least 90 calendar days prior to commencing an emissions testing program, referencing the previously approved procedural protocol is sufficient if the letter is approved by the Department. The letter shall be submitted as required in paragraph (a). If modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack test manual has been revised since the approval, a new protocol shall be submitted for approval.

(c) At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Department in accordance with paragraph (h) of this condition. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(d) If the proposed testing did not occur per the required notification in paragraph (b) above, an electronic mail notification shall be sent within 15 calendar days after the expected completion date of the onsite testing to the Department, in accordance with paragraph (h) of this condition, indicating why the proposed completion date of the on-site testing was not adhered to.

(e) A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an emission test program.

(1) The test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable plan approval conditions.

(2) The summary results will include, at a minimum, the following information:

(A) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.

(B) Plan approval number(s) and condition(s) which are the basis for the evaluation.

(C) Summary of results with respect to each applicable plan approval condition.

(D) Statement of compliance or non-compliance with each applicable plan approval condition.

(f) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(g) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(h) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3):

(1) All submittals, besides notifications, shall be accomplished through PSIMS\*Online, available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp>, if it is available.

(2) If internet submittal cannot be accomplished, one electronic copy of all source test submissions (protocols, reports, supplemental information, etc.) shall be sent to both PSIMS Administration in Central Office and to Regional Office AQ Program Manager at the following addresses.

CENTRAL OFFICE:  
[RA-EPstacktesting@pa.gov](mailto:RA-EPstacktesting@pa.gov)

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NORTHWEST REGIONAL OFFICE:  
RA-EPNWstacktesting@pa.gov

Test Date Notifications and Supplemental Information shall be submitted to the following:

Electronic Submittal

<http://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx>

(i) The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

(j) Actions Related to Noncompliance Demonstrated by a Stack Test:

(1) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(2) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) Each source will be evaluated against a set of criteria from Method 204 to determine if the enclosure meets the requirements of a permanent total enclosure (PE). The following criteria must be met for a source to meet the definition of having a (PE).

(1) Any natural draft opening (NDO) shall be at least four equivalent opening diameters from each VOC emitting point.

(2) The total area of all NDO's shall not exceed 5 percent of the surface area of the enclosure's four walls, floor and ceiling.

(3) The average facial velocity (FV) of air through all NDO's shall be at least 3,600 m/hr (200 fpm). The direction of air flow through all NDO's shall be in to the enclosure.

(4) All access doors and windows whose areas are not included in (2) above, and are not included in (3) above, shall be closed during routine operation of the source.

(5) All VOC emissions must be captured and contained for discharge through a control device.

(b) Sources with enclosures that meet the definition of a PE must show continuing compliance with this determination by option (1) or (2) below:

(1) The permittee shall install a manometer, or equivalent, to measure the pressure drop across the enclosure. The

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pressure drop must be greater than 0.007 inches of water column.

(2) The permittee shall perform a reevaluation of the PE for each source using Method 204 during the final 12 months before the current facility operating permit expires.

(c) Sources with enclosures that do not meet the definition of a PE must test for capture efficiency using the procedure outlined in Method 204. The capture efficiency will be used in calculating VOC emissions.

(d) The testing schedule for sources with enclosures that do not meet the definition of a PE will be, all sources initially, then one source per control device every year, on a rotating basis.

(e) Capture efficiency for each source will be determined using the most recent testing results for each specific source, combined with other sources using the same control device.

[All conditions from PA 43-270K, except for (a)(5). Condition (a)(5) is added pursuant to Part 51 Method 204's criteria for a PE. Compliance with Condition (a)(5) also assures compliance with PA 43-270G's 100% capture efficiency.]

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.493]**

**Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry**

**Performance test and compliance provisions.**

(a) Section 60.8(d) does not apply to monthly performance tests and 60.8(f) does not apply to the performance test procedures required by this subpart.

(b) The owner or operator of an affected facility shall conduct an initial performance test as required under 60.8(a) and thereafter a performance test each calendar month for each affected facility.

(1) [Not Applicable]

(2) An owner or operator shall use the following procedures for each affected facility that uses a capture system and a control device that destroys VOC (e.g., incinerator) to comply with the emission limit specified under 60.492.

(i) Determine the overall reduction efficiency (R) for the capture system and control device.

For the initial performance test, the overall reduction efficiency (R) shall be determined as prescribed in paragraphs (b)(2)(i) (A), (B), and (C) of this section. In subsequent months, the owner or operator may use the most recently determined overall reduction efficiency for the performance test providing control device and capture system operating conditions have not changed. The procedure in paragraphs (b)(2)(i), (A), (B), and (C) of this section, shall be repeated when directed by the Administrator or when the owner or operator elects to operate the control device or capture system at conditions different from the initial performance test.

(A) Determine the fraction (F) of total VOC used by the affected facility that enters the control device using the following equation:

$$F = \frac{Se}{Se + Sh} \quad (5)$$

where He and Hh shall be determined by a method that has been previously approved by the Administrator. The owner or operator may use the values of Se and Sh specified in Table 1 or other values determined by a method that has been previously approved by the Administrator.

[From Table 1 - Distribution of VOC Emissions. The following are the emission distribution values for coater/flashoff (Se) and curing oven (Sh) for two-piece aluminum or steel can production's coating operations.

Exterior base coat operation: Se - 0.75; Sh - 0.25  
Overvarnish coating operation: Se - 0.75; Sh - 0.25  
Inside spray coating operation: Se - 0.80; Sh - 0.20 ]

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(B) Determine the destruction efficiency of the control device (E) using values of the volumetric flow rate of each of the gas streams and the VOC content (as carbon) of each of the gas streams in and out of the device by the following equation:

[For Equation (6), refer to § 60.493 of Title 40 - Protection of Environment in [www.ecfr.gov](http://www.ecfr.gov).]

where n is the number of vents before the control device, and m is the number of vents after the control device.

(C) Determine overall reduction efficiency (R) using the following equation:

$$R = EF \quad (7)$$

(ii) Calculate the volume-weighted average of the total mass of VOC per volume of coating solids (G) used during the calendar month for the affected facility using equations (1), (2), and (3).

(iii) Calculate the volume-weighted average of VOC emissions discharged to the atmosphere (N) during the calendar month by the following equation:

$$N = G \times [1 - R] \quad (8)$$

(iv) If the volume-weighted average of mass of VOC emitted to the atmosphere for the calendar month (N) is equal to or less than the applicable emission limit specified under 60.492, the affected facility is in compliance.

(3) [Not Applicable]

[48 FR 38737, Aug. 25, 1983, as amended at 65 FR 61763, Oct. 17, 2000]

**# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.496]**

**Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry**

**Test methods and procedures.**

(a) The reference methods in appendix A to this part, except as provided in 60.8, shall be used to conduct performance tests.

(1) [Omitted. With RTO operating at all times the sources are in operation, compliance can be through use of VOC control devices.]

(2) Reference Method 25 or an equivalent or alternative method for the determination of the VOC concentration in the effluent gas entering and leaving the control device for each stack equipped with an emission control device. The owner or operator shall notify the Administrator 30 days in advance of any State test using Reference Method 25. The following reference methods are to be used in conjunction with Reference Method 25:

- (i) Method 1 for sample and velocity traverses,
- (ii) Method 2 for velocity and volumetric flow rate,
- (iii) Method 3 for gas analysis, and
- (iv) Method 4 for stack gas moisture.

(b) [Omitted. With RTO operating at all times the sources are in operation, compliance can be through use of VOC control devices.]

(c) For Reference Method 25, the sampling time for each of three runs must be at least 1 hour. The minimum sample volume must be 0.003 dscm except that shorter sampling times or smaller volumes, when necessitated by process variables or other factors, may be approved by the Administrator. The Administrator will approve the sampling of representative stacks on a case-by-case basis if the owner or operator can demonstrate to the satisfaction of the Administrator that the testing of representative stacks would yield results comparable to those that would be obtained by

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testing all stacks.

[48 FR 38737, Aug. 25, 1983, as amended at 65 FR 61763, Oct. 17, 2000]

**# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.8]****Subpart A - General Provisions****Performance tests.**

(a) Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of this section, within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).

(1) If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable.

(2) The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs.

(3) The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable.

(4) Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of this section, the owner or operator of the affected facility remains strictly subject to the requirements of this part.

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act.

(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

(d) The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement.

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[Pursuant to § 60.493(a), § 60.8(d) does not apply to monthly performance test.]

(e) The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

(1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

(2) Safe sampling platform(s).

(3) Safe access to sampling platform(s).

(4) Utilities for sampling and testing equipment.

(f) [Not applicable pursuant to § 60.493(a).]

(g) The performance testing shall include a test method performance audit (PA) during the performance test. The PAs consist of blind audit samples supplied by an accredited audit sample provider and analyzed during the performance test in order to provide a measure of test data bias. Gaseous audit samples are designed to audit the performance of the sampling system as well as the analytical system and must be collected by the sampling system during the compliance test just as the compliance samples are collected. If a liquid or solid audit sample is designed to audit the sampling system, it must also be collected by the sampling system during the compliance test. If multiple sampling systems or sampling trains are used during the compliance test for any of the test methods, the tester is only required to use one of the sampling systems per method to collect the audit sample. The audit sample must be analyzed by the same analyst using the same analytical reagents and analytical system and at the same time as the compliance samples. Retests are required when there is a failure to produce acceptable results for an audit sample. However, if the audit results do not affect the compliance or noncompliance status of the affected facility, the compliance authority may waive the reanalysis requirement, further audits, or retests and accept the results of the compliance test. Acceptance of the test results shall constitute a waiver of the reanalysis requirement, further audits, or retests. The compliance authority may also use the audit sample failure and the compliance test results as evidence to determine the compliance or noncompliance status of the affected facility. A blind audit sample is a sample whose value is known only to the sample provider and is not revealed to the tested facility until after they report the measured value of the audit sample. For pollutants that exist in the gas phase at ambient temperature, the audit sample shall consist of an appropriate concentration of the pollutant in air or nitrogen that can be introduced into the sampling system of the test method at or near the same entry point as a sample from the emission source. If no gas phase audit samples are available, an acceptable alternative is a sample of the pollutant in the same matrix that would be produced when the sample is recovered from the sampling system as required by the test method. For samples that exist only in a liquid or solid form at ambient temperature, the audit sample shall consist of an appropriate concentration of the pollutant in the same matrix that would be produced when the sample is recovered from the sampling system as required by the test method. An accredited audit sample provider (AASP) is an organization that has been accredited to prepare audit samples by an independent, third party accrediting body.

(1) The source owner, operator, or representative of the tested facility shall obtain an audit sample, if commercially available, from an AASP for each test method used for regulatory compliance purposes. No audit samples are required for the following test methods: Methods 3A and 3C of appendix A-3 of part 60, Methods 6C, 7E, 9, and 10 of appendix A-4 of part 60, Methods 18 and 19 of appendix A-6 of part 60, Methods 20, 22, and 25A of appendix A-7 of part 60, Methods 30A and 30B of appendix A-8 of part 60, and Methods 303, 318, 320, and 321 of appendix A of part 63 of this chapter. If multiple sources at a single facility are tested during a compliance test event, only one audit sample is required for each method used during a compliance test. The compliance authority responsible for the compliance test may waive the requirement to include an audit sample if they believe that an audit sample is not necessary. "Commercially available" means that two or more independent AASPs have blind audit samples available for purchase. If the source owner, operator, or representative cannot find an audit sample for a specific method, the owner, operator, or representative shall consult the EPA Web site at the following URL, [www.epa.gov/ttn/emc](http://www.epa.gov/ttn/emc), to confirm whether there is a source that can supply an audit sample for that method. If the EPA Web site does not list an available audit sample at least 60 days prior to the beginning of the compliance test, the source owner, operator, or representative shall not be required to include an audit sample as part of the quality assurance

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program for the compliance test. When ordering an audit sample, the source owner, operator, or representative shall give the sample provider an estimate for the concentration of each pollutant that is emitted by the source or the estimated concentration of each pollutant based on the permitted level and the name, address, and phone number of the compliance authority. The source owner, operator, or representative shall report the results for the audit sample along with a summary of the emission test results for the audited pollutant to the compliance authority and shall report the results of the audit sample to the AASP. The source owner, operator, or representative shall make both reports at the same time and in the same manner or shall report to the compliance authority first and then report to the AASP. If the method being audited is a method that allows the samples to be analyzed in the field and the tester plans to analyze the samples in the field, the tester may analyze the audit samples prior to collecting the emission samples provided a representative of the compliance authority is present at the testing site. The tester may request and the compliance authority may grant a waiver to the requirement that a representative of the compliance authority must be present at the testing site during the field analysis of an audit sample. The source owner, operator, or representative may report the results of the audit sample to the compliance authority and report the results of the audit sample to the AASP prior to collecting any emission samples. The test protocol and final test report shall document whether an audit sample was ordered and utilized and the pass/fail results as applicable.

(2) An AASP shall have and shall prepare, analyze, and report the true value of audit samples in accordance with a written technical criteria document that describes how audit samples will be prepared and distributed in a manner that will ensure the integrity of the audit sample program. An acceptable technical criteria document shall contain standard operating procedures for all of the following operations:

- (i) Preparing the sample;
- (ii) Confirming the true concentration of the sample;
- (iii) Defining the acceptance limits for the results from a well qualified tester. This procedure must use well established statistical methods to analyze historical results from well qualified testers. The acceptance limits shall be set so that there is 95 percent confidence that 90 percent of well qualified labs will produce future results that are within the acceptance limit range.
- (iv) Providing the opportunity for the compliance authority to comment on the selected concentration level for an audit sample;
- (v) Distributing the sample to the user in a manner that guarantees that the true value of the sample is unknown to the user;
- (vi) Recording the measured concentration reported by the user and determining if the measured value is within acceptable limits;
- (vii) The AASP shall report the results from each audit sample in a timely manner to the compliance authority and then to the source owner, operator, or representative. The AASP shall make both reports at the same time and in the same manner or shall report to the compliance authority first and then report to the source owner, operator, or representative. The results shall include the name of the facility tested, the date on which the compliance test was conducted, the name of the company performing the sample collection, the name of the company that analyzed the compliance samples including the audit sample, the measured result for the audit sample, and whether the testing company passed or failed the audit. The AASP shall report the true value of the audit sample to the compliance authority. The AASP may report the true value to the source owner, operator, or representative if the AASP's operating plan ensures that no laboratory will receive the same audit sample twice.
- (viii) Evaluating the acceptance limits of samples at least once every two years to determine in cooperation with the voluntary consensus standard body if they should be changed;
- (ix) Maintaining a database, accessible to the compliance authorities, of results from the audit that shall include the name of the facility tested, the date on which the compliance test was conducted, the name of the company performing the sample collection, the name of the company that analyzed the compliance samples including the audit sample, the measured result for the audit sample, the true value of the audit sample, the acceptance range for the measured value, and

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whether the testing company passed or failed the audit.

(3) The accrediting body shall have a written technical criteria document that describes how it will ensure that the AASP is operating in accordance with the AASP technical criteria document that describes how audit samples are to be prepared and distributed. This document shall contain standard operating procedures for all of the following operations:

- (i) Checking audit samples to confirm their true value as reported by the AASP;
- (ii) Performing technical systems audits of the AASP's facilities and operating procedures at least once every two years;

(iii) Providing standards for use by the voluntary consensus standard body to approve the accrediting body that will accredit the audit sample providers.

(4) The technical criteria documents for the accredited sample providers and the accrediting body shall be developed through a public process guided by a voluntary consensus standards body (VCSB). The VCSB shall operate in accordance with the procedures and requirements in the Office of Management and Budget Circular A-119. A copy of Circular A-119 is available upon request by writing the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, NW., Washington, DC 20503, by calling (202) 395-6880 or downloading online at [http://standards.gov/standards\\_gov/a119.cfm](http://standards.gov/standards_gov/a119.cfm). The VCSB shall approve all accrediting bodies. The Administrator will review all technical criteria documents. If the technical criteria documents do not meet the minimum technical requirements in paragraphs (g)(2) through (4) of this section, the technical criteria documents are not acceptable and the proposed audit sample program is not capable of producing audit samples of sufficient quality to be used in a compliance test. All acceptable technical criteria documents shall be posted on the EPA Web site at the following URL, <http://www.epa.gov/ttn/emc>.

(h) Unless otherwise specified in the applicable subpart, each test location must be verified to be free of cyclonic flow and evaluated for the existence of emission gas stratification and the required number of sampling traverse points. If other procedures are not specified in the applicable subpart to the regulations, use the appropriate procedures in Method 1 to check for cyclonic flow and Method 7E to evaluate emission gas stratification and selection of sampling points.

(i) Whenever the use of multiple calibration gases is required by a test method, performance specification, or quality assurance procedure in a part 60 standard or appendix, Method 205 of 40 CFR part 51, appendix M of this chapter, "Verification of Gas Dilution Systems for Field Instrument Calibrations," may be used.

**III. MONITORING REQUIREMENTS.****# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) A magnehelic gauge, or equivalent, shall be maintained to monitor the pressure differential across the baghouse filter media.

(b) A magnehelic gauge or equivalent shall be maintained to monitor the inlet pressure of the RTO.

(c) The permittee shall continuously monitor the chamber temperature of the RTO whenever the source is in operation. The temperature sensing and recording devices shall be maintained in good working order.

(d) The permittee shall continuously monitor the airflow (or fan amperage) of the RTO.

**# 014 [25 Pa. Code §129.67b]****Control of VOC emissions from offset lithographic printing presses and letterpress printing presses.**

(e) COMPLIANCE AND MONITORING REQUIREMENTS.

(1) - (2) [Not Applicable]

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(3) **CLEANING SOLUTION.** The owner or operator of an offset lithographic printing press or a letterpress printing press subject to this section shall demonstrate compliance with the VOC content limit or VOC composite partial vapor pressure limit for cleaning solutions in subsection (c)(1) by one or more of the following methods:

- (i) Analysis of a sample of press-ready (as applied) cleaning solution for VOC content using EPA Reference Method 24.
- (ii) Use of the equation in subsection (j) to calculate the composite partial vapor pressure of the press-ready (as applied) cleaning solution.
- (iii) Use of the methods in subsection (k) to determine the VOC composite partial vapor pressure of a single concentrated component or additive used to prepare the press-ready (as applied) cleaning solution.
- (iv) Maintenance onsite of MSDS, CPDS or other data provided by the manufacturer of the press-ready (as applied) cleaning solution that indicates the VOC content or the VOC composite partial vapor pressure, or both, of the press-ready (as applied) cleaning solution.
- (v) Calculation of the VOC content or the VOC composite partial vapor pressure, or both, of the press-ready (as applied) cleaning solution that combines the EPA Reference Method 24 analytical VOC content data or analytical VOC composite partial vapor pressure data for each of the concentrated components or additives used to prepare the press-ready (as applied) cleaning solution.
  - (A) The VOC content data or VOC composite partial vapor pressure data for each of the concentrated components or additives shall be combined in the proportions in which the concentrated components or additives are mixed to make the batch of press-ready (as applied) cleaning solution.
  - (B) The VOC content or VOC composite partial vapor pressure shall be calculated one time for each recipe of press-ready (as applied) cleaning solution. The recipe name, VOC content or VOC composite partial vapor pressure for each concentrated component or additive and cleaning solution mix ratio shall be recorded in a log book.
  - (C) The EPA Reference Method 24 analysis of the concentrated components or additives used to prepare the press-ready (as applied) cleaning solution may be performed or the VOC composite partial vapor pressure data may be determined by the supplier of the components or additives and these results provided to the owner or operator of the affected press.
- (vi) Another method to determine compliance with the VOC content limits for cleaning solutions in subsection (c)(1) if the following requirements are met:
  - (A) The facility owner or operator submits a request, in writing, to the appropriate regional office of the Department for approval of the alternative method.
  - (B) The request demonstrates that the alternative method provides results that accurately determine the cleaning solution VOC content or VOC composite partial vapor pressure.
  - (C) The Department provides prior written approval of the alternative method.

**IV. RECORDKEEPING REQUIREMENTS.****# 015 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee will track the ink usage and report VOC emissions from these processes (lithographic printing). These uncontrolled VOC emissions will be factored into the overall control efficiency for the process.

**# 016 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain a log of all inspections, repairs, and maintenance performed on the control devices (baghouse and RTO) and all the associated monitoring equipment. The log, at a minimum, shall contain the dates of the

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inspections, repairs, maintenance performed, any potential problems or defects that were encountered, any corrective actions, the name of the observer, the initials of the observer, and the title of the observer.

(b) The permittee shall maintain records of the following operational parameters: (these records may be done with strip charts recorders, data acquisition systems, or manual log entries)

- (1) Inlet pressure of the RTO (daily)
- (2) RTO Chamber temperature (continuously)
- (3) The RTO airflow (or fan amperage) as measured in Hz (continuously)
- (4) Pressure drop across the baghouse (daily)

(c) The permittee shall record all excursions from the specified operational parameters for the control devices (RTO and Baghouse), the corrective actions taken in response to an excursion, and the time elapsed until the corrective actions have been taken.

(d) The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, probable causes and corrective actions taken for the incidents.

(e) The permittee shall record all inspections, repairs, and maintenance performed on the monitoring equipment.

**# 017 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall create a table that outlines the Method 204 testing performed at the facility. This table shall contain the following information at a minimum:

- (1) Source Identification
- (2) Date testing occurred.
- (3) Determination of meeting the criteria of a permanent total enclosure (PE).
- (4) Source capture efficiency.

(b) The permittee shall record daily pressure drop readings for sources with PE's and a manometer, on a daily basis, when the source is in operation.

(c) The permittee shall use the capture efficiency of a source when calculating and reporting VOC emissions from the source.

**# 018 [25 Pa. Code §129.52]****Surface coating processes**

(c) A facility, regardless of the facility's annual emission rate, which contains surface coating processes shall maintain records sufficient to demonstrate compliance with this section. At a minimum, a facility shall maintain daily records of:

- (1) The following parameters for each coating, thinner and other component as supplied:
  - (i) The coating, thinner or component name and identification number.
  - (ii) The volume used.
  - (iii) The mix ratio.
  - (iv) The density or specific gravity.
  - (v) The weight percent of total volatiles, water, solids and exempt solvents.
  - (vi) The volume percent of solids for Table I surface coating process categories 1—10.

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(2) The VOC content of each coating, thinner and other component as supplied.

(3) The VOC content of each as applied coating.

**# 019 [25 Pa. Code §129.67b]****Control of VOC emissions from offset lithographic printing presses and letterpress printing presses.**

(f) RECORDKEEPING REQUIREMENTS. Beginning January 1, 2015, the owner or operator of a printing press subject to this section shall maintain records sufficient to demonstrate compliance with this section. Records maintained for compliance demonstrations may include purchase, use, production and other records.

(1) [Not Applicable]

(2) An owner or operator subject to subsection (a)(1)(i), (ii), (iii) or (iv) shall maintain records of cleaning solutions and fountain solutions used at the facility, including:

(i) The following parameters for each press ready blanket, roller or other cleaning solution:

(A) The name and identification number for the blanket, roller or other cleaning solution.

(B) The VOC content (weight %) or VOC composite partial vapor pressure of each cleaning solution as applied.

(C) The volume used of each cleaning solution as applied, if the owner or operator is using cleaning solutions which exceed the limits in subsection (c)(1)(i).

(D) Records of cleaning solution monitoring as required under subsection (e)(3).

(ii) [Not Applicable]

(3) [Not Applicable]

(4) The owner or operator may group materials into classes using the highest VOC content in any material in a class to represent that class of material.

**V. REPORTING REQUIREMENTS.****# 020 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall report all excursions and corrective actions taken to the Department, including the dates, times, durations and probable causes, every six (6) months.

(b) The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times and durations, probable causes and corrective actions taken, every six (6) months.

**# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.495]****Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry****Reporting and recordkeeping requirements.**

(a) The owner or operator of an affected facility shall include the following data in the initial compliance report required under 60.8(a).

(1) [Not Applicable]

(2) [Not Applicable]

(3) Where compliance is achieved through the use of incineration, the owner or operator shall include in the initial

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performance test required under 60.8(a) the combustion temperature (or the gas temperature upstream and downstream of the catalyst bed), the total mass of VOC per volume of coating solids before and after the incinerator, capture efficiency, and the destruction efficiency of the incinerator used to attain compliance with the applicable emission limit specified under 60.492. The owner or operator shall also include a description of the method used to establish the amount of VOC captured by the capture system and sent to the control device.

(b) Following the initial performance test, each owner or operator shall identify, record, and submit quarterly reports to the Administrator of each instance in which the volume-weighted average of the total mass of VOC per volume of coating solids, after the control device, if capture devices and control systems are used, is greater than the limit specified under 60.492. If no such instances occur during a particular quarter, a report stating this shall be submitted to the Administrator semiannually.

(c) Following the initial performance test, the owner or operator of an affected facility shall identify, record, and submit at the frequency specified in 60.7(c) the following:

(1) Where compliance with 60.492 is achieved through the use of thermal incineration, each 3-hour period when cans are processed, during which the average temperature of the device was more than 28C below the average temperature of the device during the most recent performance test at which destruction efficiency was determined as specified under 60.493.

(2) [Not Applicable]

(3) For thermal and catalytic incinerators, if no such periods as described in paragraphs (c)(1) and (c)(2) of this section occur, the owner or operator shall state this in the report.

(d) Each owner or operator subject to the provisions of this subpart shall maintain at the source, for a period of at least 2 years, records of all data and calculations used to determine VOC emissions from each affected facility in the initial and monthly performance tests. Where compliance is achieved through the use of thermal incineration, each owner or operator shall maintain, at the source, daily records of the incinerator combustion chamber temperature.

(e) The requirements of this section remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected facilities within the State will be relieved of the obligation to comply with this subsection, provided that they comply with the requirements established by the State.

[47 FR 49612, Nov. 1, 1982, as amended at 55 FR 51384, Dec. 13, 1990; 65 FR 61763, Oct. 17, 2000]

**VI. WORK PRACTICE REQUIREMENTS.**

**# 022 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall perform daily operational inspections of the control devices (baghouse and RTO), including but not limited to, monitoring the chamber temperature of the RTO, monitoring the inlet pressure of the RTO, monitoring the airflow (or fan amperage) of the RTO and monitoring the pressure drop across the baghouse filter media.

(b) The permittee shall maintain written procedures for performing the required monitoring of the control devices (baghouse and RTO) and associated equipment.

(c) Whenever a condition in this permit requires the measurement of pressure drop or temperature across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.

(d) The permittee shall adhere to the approved indicator range for the RTO so that operation within the range shall provide reasonable assurance of compliance. The approved indicator range for the following shall be determined during the initial performance test or any subsequently approved performance tests unless otherwise stated:

(1) Airflow measured, as fan amperage, averaged over any consecutive 3-hour period, shall not be less than the values

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established during shakedown and testing.

[These values have been removed and will be re-established during the next performance testing per plan approvals 43-270N / 43-270O]

The permittee, with prior Departmental approval, may conduct a performance test to determine a new minimum airflow.

[See Section H. Miscellaneous of this permit for related information on fan amperage settings.]

(2) The three-hour average chamber temperature during the most recently approved performance test or 1,500°F, whichever is higher, shall be the minimum chamber temperature.

(e) The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the control devices (baghouse and RTO).

(f) The permittee shall maintain detectors or sensors at a Department approved location for obtaining data that is representative of the monitored indicator.

(1) The thermocouples are to be positioned in locations for obtaining data that is representative of the monitored indicator and are to be shielded from direct flame exposure. The permittee shall check the position of the thermocouples and recalibrate semi-annually, or whenever the range of a sensor is exceeded, or a new sensor is installed.

(2) The permittee shall maintain verification procedures to confirm that the operational status of the monitoring devices is within the expected range. (Operational status pertains to the accuracy of the measured values. The permittee may compare the data with any Department approved standardized data at a specific time interval.)

(3) For QA/QC purposes, the permittee shall calibrate and check the accuracy of the monitoring equipment, according to the manufacturer's recommended procedures. (For example, the thermocouple shall be checked for accuracy (+/- 20°F) each calendar quarter.)

(g) The permittee shall maintain all monitoring equipment and stock spare parts as necessary for routine onsite repairs.

(h) The permittee shall ensure that at least 90% of the approved monitoring data has been properly and accurately collected.

(i) The permittee shall ensure that the RTO has reached its minimum chamber temperature prior to placing any affected source on line.

(j) The permittee shall ensure that the RTO will not exceed its maximum airflow capacity prior to routing the exhaust of any additional source(s) to it.

(k) The permittee shall perform monthly external inspections of the control system and annual internal inspections of the RTO.

(l) The permanent total enclosures (PEs) shall be closed during normal operations, except as needed for routine operator access and line maintenance. The PEs shall be checked daily to ensure they are intact and being used properly.

(m) The permittee shall monitor and record the inlet duct pressure/vacuum at least daily. The inlet duct pressure/vacuum shall be within two (2) inches water gauge (+/-) of the pressure/vacuum measured during the latest enclosure certification. The pressure sensors shall be checked for proper calibration at least annually. The permittee shall maintain a log of when the position of any ductwork damper between the PEs and control devices has been changed.

(n) The permittee shall operate baghouse at all times when the source is in operation.

(o) The source and its' associated control devices shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices. A copy of the control device's operation and maintenance literature shall be maintained onsite.

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(p) The pressure differential across each baghouse (C15A, C15B, C15E) shall be maintained between 0.1 and 5.0 inches water gauge.

(q) The owner or operator shall keep sufficient quantity of spare filter bags, at a minimum of 20% of the total number of filter bags, on hand for immediate replacement.

**# 023 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

If pressure drop readings are used to demonstrate capture efficiency compliance, the permittee shall take daily pressure drop readings for sources with permanent total enclosures (PE) when the source is in operation.

[From PA 43-270K]

**# 024 [25 Pa. Code §129.67b]****Control of VOC emissions from offset lithographic printing presses and letterpress printing presses.****(i) WORK PRACTICE REQUIREMENTS FOR CLEANING ACTIVITIES.**

(1) Except as specified in paragraph (3), beginning January 1, 2015, the owner or operator of an offset lithographic printing press or a letterpress printing press subject to subsection (a)(1)(i), (ii), (iii) or (iv) shall comply with the following work practices for cleaning activities at the facility:

(i) Store all VOC-containing cleaning solutions, waste cleaning solutions and used shop towels in closed containers.

(ii) Ensure that mixing vessels and storage containers used for VOC-containing cleaning solutions, waste cleaning solutions and used shop towels are kept closed at all times, except when depositing or removing these solutions or shop towels.

(iii) Minimize spills of VOC-containing cleaning solutions and waste cleaning solutions and clean up spills immediately.

(iv) Convey VOC-containing cleaning solutions, waste cleaning solutions and used shop towels from one location to another in closed containers or pipes.

(2) The requirements in paragraph (1) apply to the following activities:

(i) Cleaning of a press, including blanket washing, roller washing, plate cleaners, metering roller cleaners, impression cylinder cleaners and rubber rejuvenators.

(ii) Cleaning of press parts, including press parts that have been removed from the press for cleaning.

(iii) Cleaning of ink, coating or adhesive from areas around a press.

(3) The requirements in paragraph (1) do not apply to the following activities:

(i) Cleaning electronic components of a press.

(ii) Cleaning in pre-press (for example, platemaking) operations.

(iii) Cleaning in post-press (for example, binding) operations.

(iv) Using janitorial supplies (for example, detergents or floor cleaners) for general cleaning around a press.

(v) The use of parts washers or cold cleaners at an offset lithographic printing or a letterpress printing facility. The use of parts washers and cold cleaners is regulated under § 129.63 (relating to degreasing operations).

**SECTION D. Source Level Plan Approval Requirements****# 025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.494]****Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry****Monitoring of emissions and operations**

The owner or operator of an affected facility that uses a capture system and an incinerator to comply with the emission limits specified under 60.492 shall install, calibrate, maintain, and operate temperature measurement devices as prescribed below.

(a) Where thermal incineration is used, a temperature measurement device shall be installed in the firebox.

(b) Each temperature measurement device shall be installed, calibrated, and maintained according to the manufacturer's specifications. The device shall have an accuracy the greater of 0.75 percent of the temperature being measured expressed in degrees Celsius or 2.5C.

(c) Each temperature measurement device shall be equipped with a recording device so that a permanent continuous record is produced.

[48 FR 38737, Aug. 25, 1983, as amended at 65 FR 61763, Oct. 17, 2000]

**VII. ADDITIONAL REQUIREMENTS.****# 026 [25 Pa. Code §129.52]****Surface coating processes**

(a) This section applies to a surface coating process category, regardless of the size of the facility, which emits or has emitted VOCs into the outdoor atmosphere in quantities greater than 3 pounds (1.4 kilograms) per hour, 15 pounds (7 kilograms) per day or 2.7 tons (2,455 kilograms) per year during any calendar year since January 1, 1987.

(d) The solvents methyl chloroform (1,1,1-trichloroethane) and methylene chloride are exempt from control under this section and § 129.67 (relating to graphic arts systems). A surface coating process which seeks to comply with this section through the use of an exempt solvent may not be included in any alternative standards.

**# 027 [25 Pa. Code §129.67b]****Control of VOC emissions from offset lithographic printing presses and letterpress printing presses.**

(a) APPLICABILITY.

(1) Except as specified in paragraph (3), this section applies to the owner and operator of an offset lithographic printing press or a letterpress printing press, or both, if the press meets one or a combination of the following:

(i) – (ii) [Not Applicable]

(iii) Offset lithographic printing. One or more offset lithographic printing presses if the total actual VOC emissions from all inks (including varnishes), coatings, adhesives and fountain solutions combined from all offset lithographic printing presses and all VOC emissions from related cleaning activities at the facility are equal to or greater than 450 pounds (204.1 kilograms) per month or 2.7 tons (2,455 kilograms) per 12-month rolling period, before consideration of add-on controls.

(iv) – (v) [Not Applicable]

(2) [Not Applicable]

(3) VOCs from adhesives used at a facility that are not used or applied on or with an offset lithographic printing press or a letterpress printing press are not subject to this section and may be regulated under § 129.77 or Chapter 130, Subchapter D (relating to control of emissions from the use or application of adhesives, sealants, primers and solvents; and adhesives, sealants, primers and solvents).

(j) COMPOSTITE PARTIAL VAPOR PRESSURE. The composite partial vapor pressure of organic compounds in cleaning solutions shall be determined by one of the following procedures: (Will apply if the cleaning solution is a mixture of several

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organic compounds)

(1) Quantifying the amount of each compound in the blend using gas chromatographic analysis, using an appropriate and current ASTM test method with prior written approval by the Department.

(2) Calculating the composite partial vapor pressure using the following equation:

[For equation, see 44 Pa. Bulletin 3961, effective June 28, 2014 in [www.pabulletin.com](http://www.pabulletin.com)]

(k) DETERMINATION OF VAPOR PRESSURE OF SINGLE ORGANIC COMPOUNDS IN CLEANING SOLUTIONS. The vapor pressure of each single component compound shall be determined from one or more of the following:

(1) An appropriate and current ASTM test method with prior written approval by the Department.

(2) The most recent edition of one or more of the following sources:

(i) Vapour Pressures of Pure Substances, Boublik, Elsevier Scientific Publishing Company, New York.

(ii) Perry's Chemical Engineers' Handbook, Green and Perry, McGraw-Hill Book Company.

(iii) CRC Handbook of Chemistry and Physics, CRC Press.

(iv) Lange's Handbook of Chemistry, McGraw-Hill Book Company.

(v) Additional sources approved by the Department.

**# 028 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.490]**

**Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry**  
**Applicability and designation of affected facility.**

(a) The provisions of this subpart apply to the following affected facilities in beverage can surface coating lines: each exterior base coat operation, each overvarnish coating operation, and each inside spray coating operation.

(b) The provisions of this subpart apply to each affected facility which is identified in paragraph (a) of this section and commences construction, modification, or reconstruction after November 26, 1980.

[48 FR 38737, Aug. 25, 1983]

**# 029 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.491]**

**Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry**  
**Definitions.**

(a) All terms which are used in this subpart and are not defined below are given the same meaning as in the Act and subpart A of this part.

(1) Beverage can means any two-piece steel or aluminum container in which soft drinks or beer, including malt liquor, are packaged. The definition does not include containers in which fruit or vegetable juices are packaged.

[During the applicability determination for this subpart under PA 43-270K, EPA determined that the aluminum bottles, as two-piece construction, manufactured and surface coated at CCL Container be considered as beverage cans under this subpart.]

(2) Exterior base coating operation means the system on each beverage can surface coating line used to apply a coating to the exterior of a two-piece beverage can body. The exterior base coat provides corrosion resistance and a background for lithography or printing operations. The exterior base coat operation consists of the coating application station, flashoff area, and curing oven. The exterior base coat may be pigmented or clear (unpigmented).

(3) Inside spray coating operation means the system on each beverage can surface coating line used to apply a coating to the interior of a two-piece beverage can body. This coating provides a protective film between the contents of the beverage

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can and the metal can body. The inside spray coating operation consists of the coating application station, flashoff area, and curing oven. Multiple applications of an inside spray coating are considered to be a single coating operation.

(4) Overvarnish coating operation means the system on each beverage can surface coating line used to apply a coating over ink which reduces friction for automated beverage can filling equipment, provides gloss, and protects the finished beverage can body from abrasion and corrosion. The overvarnish coating is applied to two-piece beverage can bodies. The overvarnish coating operation consists of the coating application station, flashoff area, and curing oven.

(5) Two-piece can means any beverage can that consists of a body manufactured from a single piece of steel or aluminum and a top. Coatings for a two-piece can are usually applied after fabrication of the can body.

(6) VOC content means all volatile organic compounds (VOC) that are in a coating. VOC content is expressed in terms of kilograms of VOC per litre of coating solids.

(b) Notations used under 60.493 of this subpart are defined below:

Ca=the VOC concentration in each gas stream leaving the control device and entering the atmosphere (parts per million as carbon)

Cb=the VOC concentration in each gas stream entering the control device (parts per million as carbon)

Dc=density of each coating, as received (kilograms per litre)

Dd=density of each VOC-solvent added to coatings (kilograms per litre)

Dr=density of VOC-solvent recovered by an emission control device (kilograms per litre)

E=VOC destruction efficiency of the control device (fraction)

F=the proportion of total VOC emitted by an affected facility which enters the control device to total emissions (fraction)

G=the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per litre of coating solids)

He=the fraction of VOC emitted at the coater and flashoff areas captured by a collection system

Hh=the fraction of VOC emitted at the cure oven captured by a collection system

Lc=the volume of each coating consumed, as received (litres)

Ld=the volume of each VOC-solvent added to coatings (litres)

Lr=the volume of VOC-solvent recovered by an emission control device (litres)

Ls=the volume of coating solids consumed (litres)

Md=the mass of VOC-solvent added to coatings (kilograms)

Mo=the mass of VOC-solvent in coatings consumed, as received (kilograms)

Mr=the mass of VOC-solvent recovered by emission control device (kilograms)

N=the volume-weighted average mass of VOC emissions to atmosphere per unit volume of coating solids applied (kilograms per litre of coating solids)

Qa=the volumetric flow rate of each gas stream leaving the control device and entering the atmosphere (dry standard cubic meters per hour)

Qb=the volumetric flow of each gas stream entering the control device (dry standard cubic meters per hour)

R=the overall emission reduction efficiency for an affected facility (fraction)

Se=the fraction of VOC in coating and diluent VOC-solvent emitted at the coater and flashoff area for a coating operation

Sh=the fraction of VOC in coating and diluent solvent emitted at the cure oven for a coating operation

Vs=the proportion of solids in each coating, as received (fraction by volume)

Wo=the proportion of VOC in each coating, as received (fraction by weight).

[48 FR 38737, Aug. 25, 1983, as amended at 65 FR 61763, Oct. 17, 2000]



**SECTION E. Source Group Plan Approval Restrictions.**

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

| Source Id        | Source Description                         |
|------------------|--------------------------------------------|
| 115              | AEROSOL CAN MANUF LINE 15                  |
| Emission Limit   |                                            |
| 500.000 PPMV     | RTO Outlet                                 |
| 0.020 gr/DRY FT3 | Filterable and Condensable                 |
| 10.000 PPMV      | For Inlet VOC concentrations < 100 ppmv    |
| 100.000 PPMV     | 98% Destruction eff. when Inlet > 100 ppmv |
|                  |                                            |

**Site Emission Restriction Summary**

| Emission Limit | Pollutant |
|----------------|-----------|
|----------------|-----------|



**SECTION H. Miscellaneous.**



\*\*\*\*\* End of Report \*\*\*\*\*

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