**Terms Last Revised: 5/31/2016**

**B6T Requirements for a coating or printing line equipped with a thermal oxidizer and subject to a pounds of VOC per gallon of solids limitation from OAC 3745-21-09, as a maximum VOC content or as a daily volume-weighted average [OAC rule 3745‑21‑09(B)(3)(j)]**

**NOTE: The parameter monitoring terms and requirements for the control device are found in the parameter monitoring terms (“J” terms)**

**Note:** **For a printing line “coating” can be changed to “ink” and “coating operations” to “printing operations”**

**B.6.j Additional Terms and Conditions, requirements for a coating or printing line subject to a pounds of VOC per gallon of solids limitation as a maximum VOC content or as a daily volume-weighted average, and where the coating line is equipped with a control device [OAC rule 3745‑21‑09(B)(3)(j)]**

**Note: fill in the limit for XX pounds of VOC per gallon of coating solids; the source of the VOC limit can be added to (or replace if not subject to 21-09) the footnote**

* + - * 1. Coatings applied in this/these emissions units shall not exceed **XX** pounds of VOC per gallon of coating solids, excluding water and exempt solvents, as either the maximum VOC content of each coating applied or as a daily volume-weighted average, where the thermal oxidizer is employed to demonstrate compliance.

[OAC rule 3745‑21‑09(B)(3)(j)] **And rule source of limitation, e.g.:**

[OAC rule 3745‑21‑09(D)(1) or (2)] **OR other limitation in lbs VOC/gallon of solids**

**B.6.e Monitoring and Record keeping requirements for a coating or printing line subject to a pounds of VOC per gallon of solids limitation as a maximum VOC content or as a daily volume-weighted average, and where the coating line is equipped with a control device [OAC rule 3745‑21‑09(B)(3)(j)] and [OAC rule 3745-21-10(B)]**

**Note:** **For a printing line change “coating” to “ink” or to the material(s) being applied; “per gallon of coating solids” or “per gallon of solids” can be used for a printing operation.**

* + - 1. The permittee, having chosen to demonstrate compliance with a limitation based on pounds of VOC per gallon of coating solids, shall collect and record the following information each day for the coating line and control equipment:
         1. the name and identification number of each coating applied;
         2. for each coating, the calculation for the VOC content in pounds of VOC per gallon of coating solids and the record of each variable for each coating applied:

CVOC,3 = (DC)(WVOC) / VS

where:

CVOC,3 = VOC content, in pounds of VOC per gallon of solids

DC = density of coating, in pounds of coating per gallon of coating

WVOC = WVM – WW -WES

WVM = weight fraction of VOC in coating, in pound of VOC per pound of coating

WW = weight fraction of water in coating, in pound of water per pound of coating

WES = weight fraction of exempt solvent in coating, in pound of exempt solvent per pound of coating

VS = volume fraction of solids in coating, in gallon of solids per gallon of coating;

* + - * 1. the maximum VOC content per gallon of coating solids for all the coatings applied; **or**
        2. the daily volume‑weighted average VOC content in pounds of VOC per gallon of coating solids of all the coatings applied, calculated as follows:
        3. n n

(CVOC,3)A = ∑ (CVOC,3i) (LCi) (VSi) / ∑ (LCi) (VSi)

i=1 i=1

where:

(CVOC,3)A = daily volume‑weighted average VOC content (in pounds of VOC per gallon of coating solids, as applied)

CVOC,3 = VOC content, in pounds of VOC per gallon of solids

LC = liquid volume of each coating employed during the day

VS = volume fraction of solids in coating, in gallon of solids per gallon of coating

i = subscript denoting a specific coating employed during the day or averaging period

A = subscript denoting that the indicated VOC content is a weighted average of the coatings employed during the day or during the averaging period.

* + - * 1. the calculated, controlled VOC emission rate, in pounds of VOC per gallon of coating solids, as applied (the maximum VOC content of any coating applied or the daily volume‑weighted average) using the overall control efficiency, as determined for the thermal oxidizer during the most recent emission test that demonstrated that the emissions unit(s) was/were in compliance.

[OAC rule 3745‑21‑09(B)(3)(j) and OAC rule 3745-21-10(B)]

**B.6.k Record Keeping Requirements for the total emissions from a coating or printing line subject to a pounds of VOC per gallon of solids limitation and using a thermal oxidizer for control**

* + - 1. The permittee shall collect and record the following information on a daily basis for the coating and cleanup materials applied in this emissions unit:
         1. the number of gallons of coatings applied;
         2. the total volume of solids from all coatings applied,in gallons;
         3. the daily volume‑weighted average VOC content **or** the maximum VOC content of the coatings applied, in pounds of VOC per gallon of coating solids, as calculated above;
         4. the uncontrolled VOC emissions from all coatings applied, i.e., “b” x “c”;
         5. the overall control efficiency determined for the thermal oxidizer during the most recent demonstration of compliance;
         6. the total controlled VOC emissions from all coatings applied, i.e., “d” x “e”;
         7. the name and identification of each cleanup material employed;
         8. the VOC content of each cleanup material, in pounds per gallon;
         9. the number of gallons of each cleanup material employed;
         10. the total VOC emissions from all cleanup materials employed, i.e., the summation of the products of “h” x “i”, in pounds; and
         11. the total VOC emissions from all coatings and cleanup materials employed during the day, i.e., “f” + “j”, in pounds.

[OAC rule 3745‑31‑05(D) or (E)] **Director’s authority for special T&Cs for compliance**

[OAC rule 3745‑31‑05(A)(3)] **if BAT**

**B.6.l Reporting Requirements requirements for a coating or printing line subject to a pounds of VOC per gallon of solids limitation as a maximum VOC content or as a daily volume-weighted average, and where the coating line is equipped with a thermal oxidizer** **[OAC rule 3745‑21‑09(B)(3)(k)]**

* + - 1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the calculated, controlled VOC emission rate exceeds the applicable pounds of VOC per gallon of solids limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

[OAC rule 3745‑21‑09(B)(3)(k)]

**B.6.x Reporting Requirements [OAC rule 3745-21-09(B)(3)(m)] and [OAC rule 3745‑15‑03(B), (C), and (D)] and [OAC rule 3745-77-07(C)(1)] if TV**

**See the parameter monitoring terms:**

**See term set J.TO term # J.32.e for the Quarterly Summary reporting requirements for deviations from the appropriate temperature range for thermal oxidizers**

**See term set J.TO term # J.32.g for the Quarterly Deviation Reporting or Permit Evaluation Reporting requirements for thermal oxidizers**

**For TV facilities and FEPTIOs this term, # J.32.g, is used as the fill-in-the-blank content for the appropriate quarterly deviation reporting (file named RPT) term in “RPT.1” for TV’s and “RPT.2” for FEPTIOs**

**B.3.f Reporting Requirements for an annual VOC emission limitation, where applicable**

***Please note that the following section must be added to this term and condition if the emissions unit is subject to an annual VOC emission limitation.***

***Note: If the emissions limit is a rolling 12 month or rolling 365 day limit see the “Y” terms, for rolling VOC emission limitations. Terms for rolling coating usage limitations are found in the “W” terms.***

***This term may be used for a Title V or non-Title V Facility:***

* + - 1. The permittee shall also submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

***Or if the facility is a Title V facility, the annual reporting requirement may be satisfied with the submission of the fee emissions report, due April 15th of each year.***

* + - 1. The permittee shall also submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Current: 03/09)