

## Knox County Air Pollution Control Board

### Regulatory Revisions January 19, 2011

1. Amend Section 41.1.A.56.a.(7) by adding a provision regarding PM 2.5 emissions at the end of the statement so that it will read as:

“

- (7) PM2.5: 10 tpy of direct PM2.5 emissions; 40 tpy of sulfur dioxide emissions; 40 tpy of nitrogen oxide emissions unless demonstrated not to be a PM2.5 precursor under 40 CFR 51.166 and/or 40 CFR 51.165. “

2. Add new Section 41.2.B.5.k regarding PM 2.5 emission offsets:

“

- k. In meeting the emissions offset requirements of this subpart for fine particulate matter (PM2.5), the emissions offsets obtained shall be for the same regulated NSR pollutant unless interprecursor trading is allowed in the approved State Implementation Plan (SIP) for the affected PM2.5 nonattainment area. For those nonattainment areas in which interprecursor trading is allowed by the approved SIP, the offset requirements for direct PM2.5 emissions or emissions of precursors of PM2.5 to may be satisfied by offsetting reductions in direct PM2.5 emissions or emissions of any PM2.5 precursor identified under Section 41.1.A.52 if such offsets comply with the interprecursor trading hierarchy and ratio established in the approved SIP for the affected nonattainment area.”

3. Amend Section 45.1.A.52. by replacing the current version with new and additional language so that it reads as:

“

52. “Regulated NSR pollutant,” for purposes of Section 45.0, means the following:
  - a. Any pollutant for which a national ambient air quality standard has been promulgated and any pollutant identified under this definition as a constituent or precursor to such pollutant. Precursors identified by the Administrator for purposes of NSR are the following:
    - i. Volatile organic compounds and nitrogen oxides are precursors to ozone in all attainment and unclassifiable areas.
    - ii. Sulfur dioxide is a precursor to PM2.5 in all attainment and unclassifiable areas.
    - iii. Nitrogen oxides are presumed to be precursors to PM2.5 in all attainment and unclassifiable areas, unless the State has demonstrated to the

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#### 3. Amend Section 45.1.A.52. (Continued)

satisfaction of the EPA Administrator or EPA demonstrates that emissions of nitrogen oxides from sources in a specific area are not a significant contributor to that area's ambient PM<sub>2.5</sub> concentrations.

iv. Volatile organic compounds are presumed not to be precursors to PM<sub>2.5</sub> in any attainment or unclassifiable area, unless the State has demonstrated to the satisfaction of the EPA Administrator or EPA demonstrates that emissions of volatile organic compounds from sources in a specific area are not a significant contributor to that area's ambient PM<sub>2.5</sub> concentrations

b. Any pollutant that is subject to any standard promulgated under Section 111 of the Act;

c. Any Class I or II substance subject to a standard promulgated under or established by title VI of the Act; or

d. Any pollutant that otherwise is subject to regulation under the Act; except that any or all hazardous air pollutants either listed in Section 112 of the Act or added to the list pursuant to Section 112(b)(2), which have not been delisted pursuant to Section 112(b)(3), are not Regulated NSR pollutants unless the listed hazardous air pollutant is also regulated as a constituent or precursor of a general pollutant listed under Section 108 of the Act.

e. Particulate matter (PM) emissions, PM<sub>2.5</sub> emissions, and PM<sub>10</sub> emissions shall include gaseous emissions from a source or activity which condense to form particulate matter at ambient temperatures. On or after January 1, 2011, such condensable particulate matter shall be accounted for in applicability determinations and in establishing emissions limitations for PM, PM<sub>2.5</sub>, and PM<sub>10</sub> in PSD permits. Compliance with emissions limitations for PM, PM<sub>2.5</sub>, and PM<sub>10</sub> issued prior to this date shall not be based on condensable particulate matter unless required by the terms and conditions of the permit or the applicable implementation plan. Applicability determinations made prior to this date without accounting for condensable particulate matter shall not be considered in violation of this paragraph unless the applicable implementation plan required condensable particulate matter to be included. “

#### 4. Amend Section 45.1.A.56 by adding new item 45.1.A.56.a.xvii regarding PM 2.5 emissions, which reads:

“

xvii. PM<sub>2.5</sub>: 10 tpy of direct PM<sub>2.5</sub> emissions; 40 tpy of sulfur dioxide emissions; 40 tpy of nitrogen oxide emissions unless demonstrated not to be a PM<sub>2.5</sub> precursor under 40 CFR 51.166 and/or 40 CFR 51.165. “

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5. Amend Section 45.2.C.6 by adding the word “or” at the end of 45.2.C.6.d and also adding new item 45.2.C.6.e thereafter, so that they read as follows:

“

- d. The existing air pollutant levels are conservatively estimated to be less than the concentrations listed in Section 45.2.C.6.a, and a monitoring network may not reliably measure the predicted background concentrations; or
- e. The concentrations of the pollutant in the area that the source or modification would affect are less than the concentrations listed in Section C.6.a. “