

DE Air Regulation Development

**Large Industrial Boilers/Process Heaters
at Refineries
with Heat Input \geq 200 mmBTU/hr**

**Committee Meeting 5
August 23, 2006**

Meeting #5 Agenda

- Discussion/approval of the meeting #4 minutes.

- Discussion of Draft 2 of Regulatory Language
 - Standards: NOx emission limits
 - Group 1: Heaters and non-CO boilers
 - Group 2: CO boilers
 - Other parts of the draft regulation

- Next steps

[Meeting #4 Minutes]

- Discussion
- Approval

Draft 2 of Regulatory Language

(1) Draft 2 as of August 16, 2006.

(2) Two groups:

- Group 1: all units, excluding CO boilers;**
- Group 2: CO boilers.**

Draft 2: Standards for Group 1

2.3.1.1

0.04 lb/mmBTU, on 24-hour rolling average period for any single unit, and

2.3.1.2

0.03 lb/mmBTU, averaged annually for all affected units,

$$R_n = \frac{\sum_{i=1}^n E_i}{\sum_{i=1}^n H_i} \leq 0.03 \text{ lb} / \text{mmBTU}$$

Draft 2: Standards for Group 1

2.3.1.3

Case-by-case rate determination,

- (1) Application from owner/operator at least 6 (or 12?) months prior to compliance date in Section 2.2.3 (December 31, 2008);**
- (2) If approved, same implementation schedule as in Section 2.2.3;**
- (3) As a SIP revision, pending on EPA's final approval;**
- (4) If approved, to be included in annual average in Section 2.3.1.2.**

Draft 2: Standards for Group 2, CO Boilers

2.3.2.1 For any coker CO boiler, an annual average concentration of 20 parts per million by volume, dry (ppmvd) at 0% oxygen on a 365-day rolling average basis and 40 ppmvd at 0% oxygen on a 7- day rolling average basis; or

2.3.2.2 For coker CO boiler and cracker CO boiler, a combined average concentration of 20 parts per million by volume, dry (ppmvd) at 0% oxygen on a 365-day rolling average basis and 40 ppmvd at 0% oxygen on a 7-day rolling average basis.

Draft 2: Standards for Group 2, CO Boilers

2.3.2.3

Case-by-case rate determination,

- (1) Application from owner/operator at least 6 (or 12?) months prior to compliance date in Section 2.2.3 (December 31, 2008);**
- (2) If approved, same implementation schedule as in Section 2.2.3;**
- (3) As a SIP revision, pending on EPA's final approval;**
- (4) If approved, to be included in annual and 7-day averages.**

Draft 2: Other Sections of Draft

(1) Natural Gas Curtailment Requirements

2.3.3.1 Application to the Department for curtailment shall be submitted at least **xx hours (or xx days)** prior to the starting date of curtailment period, and shall include: ...

(2) Effective date: **xx/xx/200x**

AQM proposes 07/01/2007.

(3) Others?

Next Steps of Rule-Making

AQM plans to:

- (1) Complete Draft 3, based on discussions of today's meeting.**
- (2) Hold a public workshop in September (optional).**
- (3) Publish Draft 3 as a proposed rule in Delaware Register of Regulations on November 1, for public review and comments.**
- (4) Hold a public hearing around December 1.**
- (5) Finalize the rule in January 2007 and submit it to EPA for approval.**

Reminder

All relevant materials and information of this rule-making are available at

DNREC Website for Reg. 1142 Sec. 2.

→ <http://www.awm.delaware.gov/Info/Regs/AQMPIansRegs.htm>

→ [Regulation No. 1142, Section 2 - Specific Emission Control Requirements](#)