

United States Environmental Protection Agency, Region IX

Air Division

Technical Support Document

for

EPA's Notice of Proposed and Direct Final Rulemaking

for the

California State Implementation Plan

Mojave Desert Air Quality Management District

Rule 1161, Portland Cement Kilns

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**Agency Name:** Mojave Desert Air Quality Management District (MDAQMD)

**Submitted Rule:** Rule 1161 - Portland Cement Kilns  
Adopted - March 25, 2002  
Submitted - June 18, 2002  
Complete - July 23, 2002

**Previous Rule:** Rule 1161 - Portland Cement Kilns  
**Submittals:** Adopted - October 22, 2001  
Submitted - November 8, 2001  
EPA Approval - January 2, 2002  
(67 FR 19)

### **Rule Summary**

Rule 1161 applies to cement manufacturing operations within the Federal Ozone non-attainment area regulated by the MDAQMD. This rule controls emission of oxides of nitrogen (NOx) from Portland cement kilns.

On January 2, 2002, the EPA finalized approval of a previous version of this rule. California Air Resources Board (CARB) submitted comments on the previous version of proposed rule 1161 a few days prior to its scheduled adoption in October 2001. Because delaying adoption could have resulted in offset and highway sanctions for the region, MDAQMD committed to CARB that the district would address their comments no later than May 2002.

On June 18, 2002, CARB submitted a revised version of rule 1161 for approval into the SIP. Rule 1161, as revised, addresses CARB's comments.

### **Major Revisions to Rule 1161**

Submitted Rule 1161 makes the following changes to the State Implementation Plan (SIP) rule (unless otherwise noted, section references are to the submitted version of the rule).

1. Section B.12 has been modified to clarify that the immediately preceding completed calendar quarter shall be used to determine "Normal Production Level"
2. Section B.13 is added to clarify that a kiln is considered to be in operation if fuel is being combusted, even if no feed is being added.

3. Section B.20 is modified to clarify that “Start-up” includes operation prior to the production of clinker.
4. Section B.21 is modified to clarify that “Shut-down” includes operation after clinker production has ceased.
5. Section C.4.d is modified to specify the meaning of properly “signed” and to allow for alternative evidence.
6. Sections H.1.a,b and c are revised to correct references to the MDAQMD Compliance Test Procedural Manual.

### **Rule Evaluation**

The submitted rule was evaluated using guidelines listed below.

The submitted rule was evaluated against the following guidelines:

1. Issue Relating to VOC Regulation, Cut points, Deficiencies, and Deviations (the Blue Book), U.S. EPA, May 25, 1988.
2. “Guidance Document for Correcting VOC Rule Deficiencies”, U.S. EPA Region 9, August 21, 2001 (the little bluebook).
3. State Implementation Plans; Nitrogen Oxides Supplement to the General Preamble for the Implementation of Title I of the Clean Air Act Amendment of 1990 (the “NOx Supplement to the General Preamble”), U.S. EPA, 57 FR 55620, Nov. 25, 1992.
4. Nitrogen Oxides (NOx) Reasonably Available Control Technology (RACT) for the Repowering of Utility Boilers, U.S. EPA Office of Air Quality Planning and Standards, March 9, 1994.
5. Alternative Control Techniques (ACT) Document, NOx Emission from Cement Manufacturing, U.S. EPA, March 1994, EPA 453/R-94-004.
6. State Implementation Plans (SIPS): Policy Regarding Excess Emissions During Malfunctions, Startup, and Shutdown, dated September 20, 1999.

### **Recommended Action**

These revisions to Rule 1161 are consistent with the relevant requirements regarding RACT, 110(a) and part D of the Clean Air Act as amended in 1990.

EPA staff recommends direct final approval to Rule 1161.

## **Attachments**

1. MDAQMD submitted Rule 1161, Portland Cement Kilns, adopted March 25, 2002.
2. MDAQMD staff report dated March 25, 2002.
3. A copy of FR notice for our approval (January 2, 2002).
4. Issue Relating to VOC Regulation, Cut points, Deficiencies, and Deviations (the Blue Book), U.S. EPA, May 25, 1988 (cover only).
5. "Guidance Document for Correcting VOC Rule Deficiencies", U.S. EPA Region 9, August 21, 2001 (the little bluebook, cover only).
6. State Implementation Plans: Nitrogen Oxides Supplement to the General Preamble for the Implementation of Title I of the Clean Air Act Amendment of 1990 (the "NOx Supplement to the General Preamble"), U.S. EPA, 57 FR 55620, Nov. 25, 1992 (cover only).
7. Nitrogen Oxides (NOx) Reasonably Available Control Technology (RACT) for the Repowering of Utility Boilers, U.S. EPA Office of Air Quality Planning and Standards, March 9, 1994 (cover only).
8. Alternative Control Techniques (ACT) Document, NOx Emission from Cement Manufacturing, U.S. EPA, March 1994, EPA 453/R-94-004 (cover only).
9. State Implementation Plans (SIPs): Policy Regarding Excess Emissions During Malfunctions, Startup, and Shutdown, dated September 20, 1999 (cover only).