

63.9(h)(2)(i), you are required to include the following in your notification of compliance status: (1) The operating limit parameter values established for each affected source (with supporting documentation) and a description of the procedure used to establish the values, and (2) if applicable, analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems.

We are requiring owners and operators of all affected sources to submit semiannual compliance reports containing statements and information concerning emission limitation deviations, out-of-control CMS, periods of startup, shutdown, or malfunction, when actions consistent with your approved SSMP were taken, and periods of routine control device maintenance for facilities obtaining a routine control device maintenance exemption. In addition, if you undertake an action that is inconsistent with your approved SSMP, then you are required to submit a startup, shutdown, and malfunction report within 2 working days of starting such action and within 7 working days of ending such action unless you have made alternative arrangements with the permitting authority.

We are requiring owners and operators of all affected sources to maintain records for at least 5 years from the date of each record. You must retain the records onsite for at least the first 2 years but may retain the records offsite for the remaining 3 years. You are required to keep a copy of each notification and report, along with supporting documentation. You are required to keep records related to the following: (1) Records of startup, shutdown, or malfunction; (2) records of performance tests; (3) records to show continuous compliance with each emission limitation; (4) if a bag leak detection system is used, records of each bag leak detection system alarm, including the time of the alarm, the time corrective action was initiated and completed, and a description of the cause of the alarm and the corrective action taken; (5) if VE measurements are taken, records of VE observations; (6) records of each operating limit parameter value deviation, including the date, time, and duration of the deviation, a description of the cause of the deviation and the corrective action taken, and whether the deviation occurred during a period of startup, shutdown, or malfunction; (7) records of routine control device maintenance for facilities obtaining a routine control device maintenance exemption, including a copy of the approved

request for a routine control device maintenance exemption; (8) records of production rate; (9) records for any approved alternative monitoring or test procedures; and (10) current copies of your SSMP and OM&M plan, including any revisions, with records documenting conformance.

IV. Summary of Environmental, Energy, and Economic Impacts for the Final Brick and Structural Clay Products Manufacturing NESHAP

A. What Are the Air Quality Impacts?

At the current level of control and 1996 production levels, nationwide emissions of HAP from the 169 BSCP facilities estimated to be major sources are about 6,000 Mg/yr (6,600 tpy). Under today's final rule, it is assumed that DLA will be installed on 89 tunnel kilns with production capacities equal to or greater than 9.07 Mg (10 tph) (that currently are not controlled with a DLA, DIFF, DLS/FF, or WS). This will result in an estimated reduction in nationwide HAP emissions of 2,100 Mg/yr (2,300 tpy).

Hydrogen fluoride emissions account for approximately 60 percent of the baseline HAP emissions. Hydrogen chloride emissions account for approximately 40 percent, with HAP metals comprising less than 1 percent of the baseline HAP emissions. Estimated nationwide emissions of HF, HCl, and HAP metals from existing major source BSCP facilities at the current level of control are 3,500 Mg/yr (3,900 tpy), 2,400 Mg/yr (2,600 tpy), and 24 Mg/yr (26 tpy), respectively. Implementation of today's final rule is estimated to reduce nationwide HF emissions from existing tunnel kilns by about 1,700 Mg/yr (1,900 tpy), and HCl will be reduced by 350 Mg/yr (390 tpy). Emissions of HAP metals are estimated to be reduced by 5.4 Mg/yr (5.9 tpy). Implementation of today's final rule also is estimated to reduce PM and SO₂ emissions by 740 Mg/yr (820 tpy) and 2,500 Mg/yr (2,800 tpy), respectively.

To project air quality impacts for new sources, we assumed that two large model tunnel kilns (each with a 13.6 Mg/hr (15 tph) capacity and equipped with DIFF) and one medium model tunnel kiln (with an 8.2 Mg/hr (9 tph) capacity and equipped with a DLA), will begin operation at the beginning of the first year following promulgation. We estimate that by implementing today's final rule, HF emissions from new sources will be reduced by 87 Mg/yr (96 tpy), HCl emissions will be reduced by 47 Mg/yr (52 tpy), and HAP metals emissions will be reduced by 0.48 Mg/yr (0.53 tpy). We also estimate

that PM and SO₂ emissions from the new kilns will be reduced by 67 Mg/yr (74 tpy) and 170 Mg/yr (190 tpy), respectively.

Secondary air impacts associated with today's final BSCP rule are direct impacts that result from the operation of any new or additional APCD. The generation of electricity required to operate the APCD on new and existing kilns will result in 11 Mg/yr (12 tpy) of nitrogen oxides (NO_x) emissions in the first year following compliance with today's final rule. The electricity is assumed to be generated by natural gas-fired turbines.

B. What Are the Water and Solid Waste Impacts?

Because compliance with today's final rule is based on the use of DLA or DIFF, no water pollution impacts are estimated. However, facilities with available wastewater disposal options may choose to use wet scrubbers. Based on available information, each scrubber-controlled kiln could generate as much as about 5 million gallons per year of waste water (based on a 10 gallon per minute scrubber blowdown, which is the maximum permitted amount in the industry).

The solid waste disposal impacts that result from the use of DLA include the disposal of the spent limestone that is discharged from the DLA. We calculated the solid waste by taking the difference between the amount of limestone charged into the DLA and the amount of reacted limestone and then adding the amount of reaction products and PM captured. Implementation of today's final rule is estimated to increase solid waste from existing sources by 65,200 Mg/yr (71,900 tpy).

To project solid waste impacts for new sources, we assumed that two large model tunnel kilns (equipped with DIFF) and one medium model tunnel kiln (equipped with a DLA) will begin operation at the beginning of the first year following promulgation of the final rule. The analysis of solid waste from DLA is discussed in the previous paragraph. The solid waste disposal impacts that result from the use of DIFF include the disposal of the spent lime (or other sorbent) that is injected into the kiln exhaust stream and subsequently captured by a fabric filter. We calculated the solid waste by taking the difference between the amount of lime injected into the system and the amount of reacted lime, and then adding the amount of reaction products and PM captured. Stoichiometric ratios of 1.0 to 2.0 have been reported for the DIFF and DLS/FF in use in the brick manufacturing industry. The average