

and cutting bricks and shapes, and drying and firing the bricks and shapes. One by-product of brick manufacturing is crushed brick, which is produced at some facilities by crushing reject bricks.

There are a total of 189 domestic BSCP manufacturing facilities; 170 of these facilities primarily produce brick, and 19 of these facilities primarily produce structural clay products. The 189 BSCP manufacturing facilities are located in 39 States and are owned by 89 companies. Seventy-six of the companies are small businesses, and these 76 companies own 92 of the BSCP manufacturing facilities. Thirteen of the companies are large businesses, and these 13 companies own 97 BSCP manufacturing facilities.

All BSCP are fired either in continuous (tunnel or roller) or batch (periodic) kilns. Because the vast majority of continuous kilns are tunnel kilns, continuous kilns, including roller kilns, will be referred to as tunnel kilns for the remainder of this preamble. A total of 314 permitted and operable tunnel kilns were reported by industry; 302 of these kilns are located at facilities that are estimated, based on uncontrolled emissions, to be major sources. Of the 302 tunnel kilns located at major sources, 275 are located at brick manufacturing facilities and 27 are located at structural clay products manufacturing facilities. A total of 227 permitted and operable periodic kilns were reported by industry; 164 of these kilns are located at facilities that are estimated to be major sources. Of the 164 periodic kilns located at major sources, 81 are located at brick manufacturing facilities and 83 are located at structural clay products manufacturing facilities.

The primary HAP emissions sources at BSCP manufacturing plants are tunnel kilns and periodic kilns, which emit HF, HCl, and HAP metals. Kilns also emit PM and SO<sub>2</sub>. Other sources of HAP emissions at BSCP manufacturing plants are the raw material processing and handling equipment. The APCD that are used by the industry to control emissions from kilns include DIFF, DLS/FF, DLA, WS, and fabric filters.

#### *B. What Are the Affected Sources?*

The existing affected source, which is the portion of each source in the category for which we are setting emission standards, is any existing large tunnel kiln. Large tunnel kilns have a design capacity equal to or greater than 9.07 Mg/hr (10 tph) of fired product. Such tunnel kilns may be fired by natural gas or other fuels, including sawdust. Sawdust firing typically involves the use of a sawdust dryer

because sawdust typically is purchased wet and needs to be dried before it can be used as fuel. Consequently, some sawdust-fired tunnel kilns have two process streams, including: A process stream that exhausts directly to the atmosphere or to an APCD, and a process stream in which the kiln exhaust is ducted to a sawdust dryer where it is used to dry sawdust before being emitted to the atmosphere.

Today's final rule focuses on those process streams from existing large tunnel kilns that exhaust directly to the atmosphere or to an APCD. For existing large tunnel kilns that do not have sawdust dryers, the kiln exhaust process stream (*i.e.*, the only process stream) is subject to the requirements of today's final rule. In accordance with CAA section 112(d)(1), we have divided tunnel kilns that duct exhaust to sawdust dryers into two classes for purposes of regulation. For existing large tunnel kilns that ducted exhaust to sawdust dryers prior to July 22, 2002, only the process stream that is emitted directly to the atmosphere or to an APCD is subject to the requirements of today's final rule; any process stream from such kilns that is ducted to a sawdust dryer is not subject to those requirements.

By contrast, for existing large tunnel kilns that first duct exhaust to sawdust dryers on or after July 22, 2002, all of the exhaust (*i.e.*, both the process stream that is emitted directly to the atmosphere or to an APCD and the process stream that is ducted to a sawdust dryer) is subject to the same level of control requirement as a new tunnel kiln.

In addition, each new or reconstructed tunnel kiln is an affected source and all process streams from new or reconstructed tunnel kilns are subject to the requirements of today's final rule. The requirements of today's final rule for new and reconstructed tunnel kilns are different for small and large kilns. Small tunnel kilns have design capacities less than 9.07 Mg/hr (10 tph) of fired product, and large tunnel kilns have design capacities equal to or greater than 9.07 Mg/hr (10 tph) of fired product. A source is a new affected source if construction began on or after July 22, 2002. An affected source is reconstructed if the criteria defined in 40 CFR 63.2 are met, as qualified by 40 CFR 63.8390(i). An affected source is existing if it is not new or reconstructed.

An existing tunnel kiln with a federally enforceable permit condition that restricts kiln operation to less than 9.07 Mg/hr (10 tph) of fired product on an annual average basis is not subject to the requirements of today's final rule.

Kilns that are used exclusively for R&D and not used to manufacture products for commercial sale, except in a *de minimis* manner, are not subject to the requirements of today's final rule. Finally, kilns that are used exclusively for setting glazes on previously fired products are not subject to the requirements of today's final rule.

#### *C. When Must I Comply With the Final Rule?*

Existing affected sources must comply within 3 years of May 16, 2003. New and reconstructed affected sources with an initial startup before May 16, 2003 must comply no later than May 16, 2003. New and reconstructed affected sources with an initial startup after May 16, 2003 must comply upon initial startup. Existing area sources that subsequently become major sources have 3 years from the date they become major sources to come into compliance. Any portion of existing facilities that become new or reconstructed major sources and any new or reconstructed area sources that become major sources must be in compliance upon initial startup.

#### *D. What Are the Emission Limits?*

Today's final rule includes emission limits in the form of production-based mass emission limits and percent reduction requirements. In establishing the HAP emission limits, we selected PM as a surrogate for HAP metals (including mercury in particulate form). Today's final rule contains HF, HCl, and PM emission limits for existing, new, and reconstructed affected sources at BSCP manufacturing facilities, as well as for the following affected sources that would be considered reconstructed but for 40 CFR 63.8390(i): Existing small tunnel kilns whose design capacity is increased such that it is equal to or greater than 9.07 Mg/hr (10 tph) of fired product or existing large DLA-controlled kilns.

If you own or operate an existing large tunnel kiln, a new or reconstructed small tunnel kiln, an existing small kiln that is rebuilt such that it becomes a large kiln, or an existing large DLA-controlled kiln that is rebuilt, you must meet an HF emission limit of 0.029 kg/Mg (0.057 lb/ton) of fired product or reduce uncontrolled HF emissions by at least 90 percent for affected process streams. You must meet an HCl emission limit of 0.13 kg/Mg (0.26 lb/ton) of fired product or reduce uncontrolled HCl emissions by at least 30 percent. You are required to meet a PM emission limit of 0.21 kg/Mg (0.42 lb/ton) of fired product.