RTI INTERNATIONAL | Memorandum

From: Brian Shrager

To: Mary Johnson
EPA/ESD/CG (C439-01)
U. S. Environmental Protection Agency
Research Triangle Park, NC 27711

Date: February 28, 2003

Project: Brick and Structural Clay Products Manufacturing NESHAP

Re: Final Rule: Documentation of Database and Responses to the 1997 Information Collection Request for Brick and Structural Clay Products.

I. Introduction

In December, 1997, the U. S. Environmental Protection Agency (EPA) developed and sent a maximum achievable control technology (MACT) information collection request (ICR) to brick and structural clay products (BSCP) manufacturing facilities. The ICR package was sent to 223 facilities and included the ICR developed for the BSCP industry and a generic (EPA Office of Management and Budget-approved) MACT ICR. Facilities had the option of completing either ICR. Following receipt of the completed ICRs from the BSCP manufacturing facilities, we reviewed the responses for completeness and accuracy and created a database of the ICR responses. This database, which is referred to as "the database" for the remainder of this memorandum, summarizes the responses to the general MACT survey, along with additional information from follow-up phone calls and faxes, which was the basis for all further calculations. This memorandum describes the information contained in the database. Each of the following sections describes the data found in each of the tables of the ICR as well as providing a copy of the database table. Following proposal of the BSCP manufacturing NESHAP, several changes were made to the database. This memorandum presents revised versions of the database tables that were modified since proposal.

II. Facility Information

The first database table is the facility information table, which contains basic facility information. Facility ownership changes, latitude and longitude corrections, and other changes have been made to this table since proposal. Because of the quantity of data that is contained in this table, it was split into 2 tables for the purposes of this memorandum. Table 1 includes the name and location of the facility, the facility contact person and their contact information, and alternate contact information. Each facility also was assigned a facility identification number

(FACID), which was used in subsequent tables and data analyses to identify the facility. Facility identification numbers that are followed by "NR" indicate a facility that did not respond to the ICR. For these facilities, data obtained from permits, contacts with State agency personnel, and a database provided to EPA by the Brick Industry Association (BIA), were used in lieu of an ICR response.[1-25]

Table 2 includes the remaining facility information in the ICR responses, including: facility latitude and longitude, applicable SIC codes, Dun and Bradstreet number, number of employees (facility-wide, company-wide and per shift), whether or not the facility is subject to other federal standards (e.g., new source performance standards), whether or not a permit was submitted with the ICR response, and the facility type (brick [b] or structural clay products [s]). A field providing an estimate of the major source status (major, area, or synthetic area) also was added to this table.[26]

III. Production and Capacity Table

This table (Table 3 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 3 presents the 1996 production and capacity for each product line at each facility (by FACID). A calculated field, utilization, also is included to show the percentage of the capacity that was produced in 1996.

IV. Raw Materials/Additives Table

This table (Table 4 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 4 contains information on each of the raw materials used. The facilities reported the individual raw materials used and the amount, in tons, of each material. We added "HAP codes" to each material to indicate if the material: (1) is a HAP ("H"); (2) contains a HAP or is a HAP precursor ("P"); or (3) is not a HAP, does not contain a HAP, and is not a HAP precursor ("N"). If a raw material analysis was provided, it is noted. Finally, a "category" field was added to this table that is used to categorize the different raw materials based on class (additive, clay, clay/shale, colorant, contaminated soil, filler, grog, HAP colorant, lubricant, raw ore, sand, schist, shale, or water).

V. Flashing Substances

This table (Table 5 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 5 contains information on the types and amounts of substances used for flashing. Most facilities simply identified the substances that are used for flashing because they do not track the amounts of flashing substances that are used.

VI. Glazes and Glaze Ingredients

These tables (Tables 6 and 7 in original database memo, docket A-99-30, item II-B-22) have not been updated since proposal. A listing of the different surface colorants in use at each facility is included in Table 6. The type of glaze, product on which it is used, amount used in 1996, an indication of whether or not the colorant is produced at the facility, and the capacity are all presented. A calculated utilization is shown, and a product ID is assigned for each glaze.

Table 7, entitled Glaze Ingredients, contains information on the ingredients present in each of the colorants. For each ingredient, either the range or the average percentage and the HAP code (see Section IV of this memorandum for a description of HAP codes) is provided for each ingredient.

VII. Raw Material Processing

This table (Table 8 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 8 provides information on the different raw material processing steps (e.g., crushing, grinding, and screening) at each facility. The FACID, process ID, type of equipment, purpose, raw material, process rate, and any air pollution control devices (APCDs) are listed. Additional fields were added to indicate the use of multiple APCDs on a process line and to assign unique IDs for both the process and the APCD.

VIII. Thermal Processing

Table 9 contains information pertaining to thermal processes (e.g., kilns and dryers) at each facility. Changes to this table since proposal include: addition of multiple new kilns; addition of a field called "preproposal kiln capacity;" and update of several kiln capacities. The FACID, process ID, equipment type, product type, operating temperature, fuel, heat input, typical production rate for continuous processes, capacity, and APCD information are listed.

Prior to proposal, additional fields were added to classify processes by general equipment type, to indicate the use of multiple APCDs, and to create unique identifiers for each process APCD. One additional field, "kiln capacity tph" also was added to this table. For continuous kilns (tunnel and roller kilns), these kiln capacities were calculated using available information including plant capacity, typical production rates, and an assumption that the kilns operate 8,760 hours per year. Capacities for periodic kilns also were estimated using similar procedures.

IX. Process Rate Monitoring

This table (Table 10 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 10 presents a summary of the process rate monitoring that is performed at each facility. The FACID, source type, equipment ID, monitoring procedures, type of monitoring, monitoring frequency, accuracy of the monitoring, and calibration frequency are provided in this table.

X. Summary

This table (Table 11 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. A summary of the different pieces of equipment at each facility is included in Table 11. The FACID, source description, equipment ID, APCD identification, and whether or not any emission test data are available are provided in this table. Additional fields were added to assign a generic equipment type and list the number of pieces of equipment that corresponds to each entry.

XI. Emission Points

These tables (Table 12 through 16 in original database memo, docket A-99-30, item II-B-22) have not been updated since proposal. Table 12 presents a summary of the emission points at each facility. The FACID, emission point ID, APCD type (if controlled), sources that are ducted to the emission point, product type, and stack dimensions (height, diameter, and area) are provided in this table. Additional fields were added (prior to proposal) to indicate whether or not there were multiple APCDs on the emission point and to create a unique APCD ID.

The inlet gas parameters table, Table 13, provides information on process exhaust (for emission points listed in Table 12). Indexed by the unique APCD ID created in Table 12, this table also contains the volumetric flow rates in actual cubic feet per minute (acfm) and dry standard cubic feet per minute (dscfm), the moisture content, the oxygen content, the stack gas temperature, PM and VOC emission factors, and the basis for those emission factors. Table 14 lists the HAPs associated with each of the emission points, the amount of HAP emitted prior to the APCD, inlet gas HAPs, and the source of the HAP emission estimate. Most facilities did not provide the detailed information shown in Tables 13 and 14.

The outlet gas parameters table, Table 15, provides information on the process exhaust (for the emission points listed in Table 12) from uncontrolled sources and post-APCD for controlled sources. This table also is indexed by the APCD ID and includes the same categories as Table 13. Table 16 provides a HAP listing comparable to the one presented in Table 14.

X. Fabric Filters

This table (Table 17 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 17 contains information on fabric filters that are used to control PM emissions from various processes in the industry. The table includes fields for the FACID, fabric filter type (baghouse or cartridge) and identification number, installation date, manufacturer, number of filter bags, bag material, material weight, estimated bag life, air-to-cloth ratio, and cleaning mechanism.

XI. Injection Filters

This table (Table 18 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 18 presents information on the dry lime injection fabric filters (DIFFs) used in the industry. The FACID, APCD ID, installation date, manufacturer, sorbent used, injection rate, number of filter bags, type of filter material, material weight, estimated bag life, air-to-cloth ratio, and cleaning mechanism are included in this table.

XII. Scrubbers

Information on the scrubbers used in the industry is presented in Table 19. The table includes fields for the FACID, APCD ID, installation date, manufacturer, scrubber type, scrubbing liquid (if any), pressure drop, liquid-to-gas ratio, any additives used to improve scrubber efficiency, and the rate that those additives are added.

XIII. Other Air Pollution Control Devices

This table (Table 20 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 20 contains data on all other types of APCDs at each facility. Generally, these other APCDs are cyclones, though there are a few other methods of pollution control listed (i.e., dust suppression). The table includes fields for the FACID, APCD ID, installation date, manufacturer, and three generic fields for any additional available information concerning the APCD.

XIV. Pollution Prevention

This table (Table 21 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. A list of any pollution prevention activities that are performed at each facility is provided in Table 21.

XV. Control Device Monitoring

This table (Table 22 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 22 contains information on the APCD monitoring techniques used at each facility. This table includes fields for the FACID, APCD ID and type, parameters monitored, monitoring frequency, type of monitoring device, recording method, monitoring equipment operation and maintenance practices, and APCD operation and maintenance practices.

XVI. Other HAP

These tables (Table 23 and 24 in original database memo, docket A-99-30, item II-B-22) have not been updated since proposal. Tables 23 and 24 contain information on HAP emitted from sources at BSCP manufacturing facilities that are not part of the brick manufacturing process. These tables include fields for the FACID, HAP emission source, SIC code of the associated manufacturing operation, specific HAP emitted, and an estimate of the quantity of HAP emitted.

XVII. Other Information

This table (Table 25 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 25 contains any other pertinent information that was not specifically requested in the ICR, but was provided by the facilities.

XVIII. Fluoride Analysis

This table (Table 26 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal. Table 26 contains a summary of available fluoride analyses for raw materials and fired products. The table includes fields for FACID, description of the material, and parts per million fluoride for raw (dry basis) and fired materials.

XIX. Test Reports

Three test reports were added to this table. Table 27, the test report table, was not a part of the ICR, but was compiled by MRI to document the available test reports for the BSCP industry. This table (Table 27 in original database memo, docket A-99-30, item II-B-22) has not been updated since proposal and is not included in this document. However, three additional test reports were used in the development of the final rule.

XX. Test Data

We updated the test data table to include data from three new test reports. Some data corrections were also made, and we removed total fluorides data from the hydrogen fluoride columns. Tables 28 through 34, compiled from the available test data, summarize the emissions data found in the test reports. For the purposes of this memorandum, fields are included for the FACID; test dates; source(s) tested; equipment ID and type; APCD ID (if any); APCD type; volumetric flow rates (acfm and dscfm) at the APCD inlet and outlet (if applicable); production rate during the test; stack gas parameters (moisture content, oxygen content, and temperature); uncontrolled and controlled pollutant concentrations, emission rates, and emission factors for hydrogen fluoride, total fluorides, hydrogen chloride, sulfur dioxide, and particulate matter; the test method used for each pollutant; whether or not a complete test report was provided; a field for any additional comments about the report; stack height; stack area; stack diameter; process operating temperatures; process fuel; heat input; and the "typical" production rate for the process. The actual database table also includes fields for the company name, facility name, and facility location.

XXI. List of Codes

Throughout the tables, many codes are used for various types of process equipment, emission points, and APCDs. These codes, along with a definition for each code, are presented below.

Code	Definition
BH	Baghouse: fabric filter
BHI	Baghouse that exhausts into a building
CA	Calciner: rotary calciner, multiple hearth calciner, rotary kiln, Herschoff furnace
CC	Coal crusher: coal pulverizer
CR	Crusher: jaw crusher, primary crusher, secondary crusher, cone crusher, impact mill
CTA	Color/texture application
CY	Cyclone
DA	Dry Limestone Adsorber
DC	Dryer (continuous): tunnel dryer

Code	Definition
DIFF	Dry lime injection fabric filter
DLS	Dry lime scrubber/fabric filter
DP	Dryer (periodic)
DR	Dryer: rotary dryer, vibrating grate dryer, fluidized bed dryer
DS	Sawdust dryer
FD	Forming (dry): press (other than hot press), friction press
FE	Fugitive emissions
FW	Forming (wet): extrusion, casting, molding
G	Grinder: grinder, ball mill, hammer mill, attrition mill, dry pan, pulverizer
GR	Finish grinding: grinder
GS	Raw material grinding and screening: grinding room
GZ	Glazing operation, including spraying, dipping, and other glaze application methods
MD	Mixer (dry): mixer, hot mixer
MH	Raw material handling and storage: conveyor transfer, elevator, hopper with screw
MISC	Miscellaneous: This designation should be used for other processes, i.e. drying
MN	Mining
MW	Mixing (wet): pug mill, mixer, blunger
OC	Other control device
OS	Open storage piles
PK	Periodic kiln: beehive kiln, bell kiln, shuttle kiln, bell top kiln, dome kiln, elevator
RK	Roller kiln, roller hearth kiln
RU	Raw material unloading and storage (into storage bins or silos)
S	Screen: vibrating screen
SC	Scrubber
ST	Storage tank (organic liquid)
TK	Tunnel kiln: continuous kiln (except roller kilns)
US	Uncontrolled stack
WE	Weighing: weigh scale, scale, weigh table, platform scale
WS	Water sprays: wet suppression

XXII. References[a]

1. K. Patel, Pennsylvania Department of Environmental Protection, to J. Frost, Glen-Gery Corporation. Transmittal of the Title V Operating Permit for the Glen-Gery Corporation, York facility, located in Spring Garden Township, York County, Pennsylvania. December 12, 1997.

2. Title V Operating Permit for the Glen-Gery Corporation, Hanley Plant. Pennsylvania Department of Environmental Protection. June 9, 1998.

3. Title V Operating Permit for the Glen-Gery Corporation, Redfield Plant. Iowa Department of Natural Resources. May 17, 1999.

4. Title V Operating Permit for the Glen-Gery Corporation, Bigler Plant. Pennsylvania Department of Environmental Protection. June 15, 1999.

5. S. Shrager, MRI, with A. Clark, Ohio Environmental Protection Agency. Telecon: Request for information on the operating status of two brick manufacturing facilities owned by General Clay Products Corporation (Gahanna and Upper Sandusky, Ohio). September 22, 1999.

6. Title V Operating Permit for the Glen-Gery Corporation, Capitol Plant. Virginia Department of Environmental Quality. January 14, 2000.

7. Title V Operating Permit for the Glen-Gery Corporation, Utica, Missouri. Missouri Department of Natural Resources, Air Pollution Control Program. February 14, 2000.

8. N. Jamison and A. Brooks, Kansas Department of Health and Environment, to M. Abraczinskas, MRI. Verification of capacity numbers at Kansas Brick and Tile. March 1, 2000.

9. B. Shrager, MRI, with T. Campbell, Atkinson Brick Company. Telecon: Discussion of small business outreach questions for Perris, California facility. Indication that Atkinson would accept 10 tph permit limit. May 17, 2000.

10. R. Floyd, J. L. Anderson (Palmetto Brick) to B. Shrager. Contact Report of conversation regarding EPA outreach questions for brick manufacturers. May 17 & 19, 2000.

11. L. Williams III, Brick and Tile Corporation of Lawrenceville, to B. Shrager, MRI. Response to EPA's small business outreach questionnaire. May 19, 2000.

12. B. Shrager, MRI, with B. Bell, Castaic Clay. Telecon: Discussion of small business outreach questions. Indication that Castaic Clay is not a major source. May 23, 2000.

13. M. Leidich, Robinson Brick Company, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. May 30, 2000.

14. R. Aldrich, Tri-State Brick and Tile Company, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. June 6, 2000.

15. K. Bendel, Triangle Brick, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. June 14, 2000.

16. H. Newman, Pine Hall Brick, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. Confidential information in the response is in CBI file no. 00358-I17-02. June 16, 2000.

17. C. Laird, Global Clay Marseilles LLC, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. June 16, 2000.

18. J. Holton, Lee Brick & Tile Company, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. June 20, 2000.

19. C. McAvoy, McAvoy Brick, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. June 21, 2000.

20. T. Lyhane, Roberts/Schornick & Associates, Incorporated, on behalf of Commercial Brick, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. July 26, 2000.

21. B. Storer, Denver Brick Company, to B. Shrager, MRI. Information on the dry lime injection fabric filter system controlling emissions from a tunnel kiln. August 1, 2000.

22. E. Birch, Henry Brick Company, Incorporated, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. August 2, 2000.

23. S. Rummel, Ochs Brick Company, to B. Shrager, MRI. Response to EPA outreach questions for brick manufacturers. August 24, 2000.

24. B. Shrager, MRI, with L. Jackson, Mutual Materials. Telecon: Discussion of small business outreach questions and wet scrubbers for controlling brick kilns. September 1, 2000.

25. D. Norvell, Clayton Group Services, to B. Shrager, MRI. Transmitting CD-ROM with the BIA database, spreadsheet with capacity information, and test report for Palmetto Brick Company performed in March 1999. March 20, 2001.

26. Memorandum from B. Shrager and M. Abraczinskas, MRI, to M. Johnson, EPA:ESD. Baseline Emissions and Emission Reductions. June 7, 2001.

[a] References were not included for ICRs, follow-up phone calls, and other standard communications.

TABLE 1: FACILITY INFORMATION, PART I

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
1	Wienerberger Group (General Shale)	General Shale Brick-Plants 14 and 38	212 South Park Rd	Fairdale	KY	40118	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282 - 4661		
2	American Eagle Brick Co	American Eagle Brick Co	1000 McNutt Rd	Sunland Park	NM	88063	George F. Cudahy	President	PO Box 12786	El Paso	TX	79913	(505) 589-0700		
3	Atkinson Brick Co	Atkinson Brick	24100 Orange Ave	Perris	CA	92570	Tobin Campbell	Vice President	15421 Chemical Lane	Huntington Beach	CA	92649	(714) 897-4311		
4	Atkinson Brick Co	Atkinson Brick	13633 S. Central Ave	Los Angeles	CA	90059	Tobin Campbell	Vice President	15421 Chemical Lane	Huntington Beach	CA	92649	(714) 897-4311		
5	Boral Industries, Inc	Boral Bricks, Bessemer Plant #6	Hopewell Rd, S.E. - Plant 62	Bessemer	AL	35020	Michele Fry	Manufacturing Management Trainee	PO Box 517	Bessemer	AL	35021	(205) 425-8970	Dave Johnson	(334) 480-2487
6	Boral Industries, Inc	Boral Bricks, Bessemer Plant #5	Vulcan Rd, S.E.	Bessemer	AL	35023	Michele Fry	Manufacturing Management Trainee	PO Box 517	Bessemer	AL	35021	(205) 425-8970	Dave Johnson	(334) 480-2487
7	Boral Industries, Inc	Boral Bricks, Augusta Plant 6	1449 Doug Barnard Parkway	Augusta	GA	31208	Guiomar Obregon	Analyst	500 Northridge Rd, Suite 300	Atlanta	GA	30350	(770) 645-4500	David P. Johnson	(334) 480-2487
8	Belden Brick Co	Redland Brick, Rocky Ridge Plant	9801 Rocky Ridge Rd	Rocky Ridge	MD	21778	Barry Miller	Manager-Safety, Environmental & Quality	15718 Clear Spring Rd, PO Box 160	Williamsport	MD	21795	(301) 223-7700 ext. 7147		
9	J. L. Anderson Co., Inc	Palmetto Brick Co	3501 Brickyard Rd	Wallace	SC	29596	Rick Floyd						(843) 537-7861		
10	Boral Industries, Inc	Boral Bricks, Macon, Mississippi	Highway 14 West	Macon	MS	39341	Michele Fry	Manufacturing Management Trainee	PO Box 517	Bessemer	AL	35021	(205) 425-8970	Dave Johnson	(334) 480-2487
11	Boral Industries, Inc	Boral Bricks, Lexington Plant	Hwy 1 and Brickyard Rd, P.O. Box 868	Lexington	SC	29072	William Anderson	Plant Manager (Boral Bricks)	PO Box 868	Van Wyck	SC	29042	(803) 286-5566	David Johnson	(334) 480-2487
12	Boral Industries, Inc	Boral Bricks, Gleason Plant	P.O. Box 72	Gleason	TN	38229	David Johnson	Environmental Manager	PO Box 1178	Columbus	GA	31902 -1178	(334) 480-2487		
13	Boral Industries, Inc	Boral Bricks, Henderson Plant	1309 Kilgore Dr	Henderson	TX	75653	Will Anderson	Plant Engineer (Boral Bricks)	7472 Van Wyck Rd (PO Box 99)	Van Wyck	SC	29744	(803) 286-5566	Dave Johnson	(334) 480-2487
14	Clay City Pipe	Bowerston Shale Co-Bowerston Plant	515 E. Main St	Bowerston	OH	44695	Edward C. Milliken	Engineering Manager					(740) 269-2921		
15	Clay City Pipe	Bowerston Shale Co-Hanover Plant	1329 Seven Hills Road NE	Newark	OH	43055	Edward C. Milliken	Engineering Manager	515 East Main St	Bowerston	OH	44695	(740) 269-2921		
16	Brick and Tile Corp of Lawrenceville	Plant I	1244 Brickyard St	Lawrenceville	VA	23868	Leon F. Williams III	Vice President Production	PO Box 45	Lawrenceville	VA	23868	(804) 848-3151		
17	Brick and Tile Corp of Lawrenceville	Plant III	16024 Governor Harrison Parkway	Lawrenceville	VA	23868	Leon F. Williams III	Vice President Production	PO Box 45	Lawrenceville	VA	23868	(804) 848-3151		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
18	Castaic Clay Mfg. Co, Inc	Castaic Clay Mfg	P.O. Box 8, 32300 Old Ridge Rte Rd	Castaic	CA	91310	William Bell	Plant Manager					(661) 259-3066		
19	Cherokee Brick & Tile Co	Cherokee Brick & Tile Co	3250 Waterville Rd	Macon	GA	31206	James V. Owen	General Manager Operations					(478) 781-6800	Leesa Gerald	(904) 268-8393
20	Clinton-Campbell Contractor, Inc	Phoenix Brick Yard	1814 South 7th Ave	Phoenix	AZ	85007	Don Campbell	Vice President					(602) 258-7158	Craig McCurry	(602) 804-1420
21	D'Hanis Clay Products, Inc	dba D'Hanis Brick and Tile	7734 County Rd No. 429	D'Hanis	TX	78850	John A. Oberman	President	311 E Nakoma	San Antonio	TX	78216	(210) 525-8142		
22	Wienerberger Group (General Shale)	Darlington Brick & Clay Products Co	602 Third & Morris St, P.O. Box 346	Darlington	PA	16115	Jack Landsbach	Plant Manager					(724) 827-2700 ext 209		
23	Endicott Clay Products Co	Endicott Clay Products Co	57120 707th Rd	Fairbury	NE	68352	Paul W. Judd	Vice President	PO Box 17	Fairbury	NE	68352	(402) 729-3315		
24	Florida Brick & Clay Co., Inc	Florida Brick	1708 Turkey Creek Rd	Plant City	FL	33567	Antonio C. Azorin	Vice President - Operations					(813) 754-1521, ext. 17		
25	Hanson, PLC	Boren Clay--Monroe	Hwy No. 74, P.O. Box 5012	Monroe	NC	28111	Jack Garvey	Director of Engineering					(336) 674-2255		
26	Hanson, PLC	Boren Clay Products	1410 Forest Acres Circle	Pleasant Garden	NC	27313	Jack Garvey	Director of Engineering					(336) 674-2255		
27	Hanson, PLC	Boren Clay Products--Roseboro Plant	P.O. Box 518	Roseboro	NC	28382	Jack Garvey	Director of Engineering					(336) 674-2255		
28	Hanson, PLC	Boren Clay Products--Blacksburg Plant	P.O. Box 156	Blacksburg	SC	29702	Jack Garvey	Director of Engineering					(336) 674-2255		
29	Hanson, PLC	US Brick Cline Plant	510 US Rt 60	Ashland	KY	41105	Martin V. Harrison	Safety/Environmental Director					(606) 928-6324		(606) 928-6324
30	Hanson, PLC	US Brick, Inc--Sipple	2014 Morris Creek Rd	Stanton	KY	4038	Martin V. Harrison	Safety/Environmental Director					(606) 663-4125		
31	Hanson, PLC	Richtex plants 2 and 4	Brickyard Rd @ Frost Ave.	Columbia	SC	29203	J. David McKeown	Environment/Quality Control Manager					(803) 786-1260		(803) 786-1260
32	Hanson, PLC	Richtex Corp--Plant 9	624 Brickyard Rd	Ninety-Six	SC	29666	J. David McKeown	Environment/Quality Control Manager					(803) 786-1260		
33	Colonial Brick Corp	Colonial Brick Corp	817 Park St - P.O. Box 365	Cayuga	IN	47928	Daniel A. Swartz	President	817 Park St	Cayuga	IN	47928	(765) 492-3355		
34	Columbus Brick Co	Columbus Brick Co	114 Brickyard Rd	Columbus	MS	39705	Charles J. Deignan	Plant Engineer	114 Brickyard Rd	Columbus	MS	39705	(601) 438-4931		
35	Jenkins Brick Co	Coosada Plant	6250 Coosada Rd	Coosada	AL	36020	John Williams	Plant Manager					(334) 285-5165		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
36	Jenkins Brick Co	Montgomery Plant	1228 N. McDonough St	Montgomery	AL	36104	Buddy Hibbard	Plant Manager					(334) 263-6660		
37	Kentwood Brick & Tile Mfg. Co, Inc	Kentwood Brick & Tile Mfg Co, Inc	72199 Hwy 51, P.O. Drawer F	Kentwood	LA	70444	Edward Burns	Controller					(504) 229-7112		
38	Hoffman Enterprises, Inc	Kinney Brick Co	100 Prosperity SE	Albuquerque	NM	87105	Ralph Hoffman	General Manager	PO Box 1804	Albuquerque	NM	87103	(505) 877-4550		
39	Summit Pressed Brick and Tile Co	Lakewood Brick and Tile Co	1325 Jay St	Lakewood	CO	80214	Thomas J. Murray	Vice President					(303) 238-5313		
40	Louisville Brick Co	Louisville Brick Co	750 N Church	Louisville	MS	39339	Mark F. Mitchell	Plant Superintendent	PO Box 426	Louisville	MS	39339	(601) 773-5971		
41	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	1401 Broadway St	Marseilles	IL	61341	Charles Laird	Plant Manager					(815) 795-6922		
42	McAvoy Brick Co	The McAvoy Brick Co	140 McAvoy Lane, P.O. Box 468	Phoenixville	PA	19460	Creighton H. McAvoy	President							
43	Nash Brick Co	Nash Brick Co (Plant)	532 Nash Brick Rd (NO MAIL)	Enfield	NC		Jeff A. Wyers	Plant Manager	PO Box 962 (ALL MAIL)	Rocky Mount	NC	27802	(919) 443-4965		
44	Owensboro Brick and Tile	Owensboro Brick and Tile	1120 E Wing Rd, Box 907	Owensboro	KY	42302	Willian J. Richard	Chairman					(502) 926-3330	Mark Sexton	(502) 926-3330
45	Richards Brick Co	Richards Brick Co	234 Springer Ave	Edwardsville	IL	62025 -1806	John Motley	General Manager					(618) 656-0230		
46	Statesville Brick Co	Statesville Brick Co	391 Brickyard Rd	Statesville	NC	28677	Brad Brown	Technical Services	PO Box 471	Statesville	NC	28687	(704) 872-4123		
47	Taylor Clay Products Co	Taylor Clay Products	PO Box 2128, 185 Peeler Rd	Salisbury	NC	28145	Harold Howard	Vice President Engineering					(704) 636-2411		
48	Roeben Co., Inc	Triangle Brick Co-Carpenter	Hwy 55 South	Carpenter	NC	27560	Howard P. Brown	President	6523 Apex Rd	Durham	NC	27713 -9346	(919) 544-1796	William G. Colby, P.E.	(603) 623-3600
49	Roeben Co., Inc	Triangle Brick Co--Merry Oaks	US Hwy 1	Merry Oaks	NC	27559	Howard P. Brown	President	6523 Apex Rd	Durham	NC	27713 -9346	(919) 544-1796	William G. Colby, P.E.	(603) 623-3600
50	Marion Ceramics, Inc	Marion Ceramics, Inc	Hwy 301 North	Pee Dee	SC		Daniel Cabeza	President	PO Box 1134	Marion	SC	29571	(803) 423-1311		
51	Boral Industries, Inc	Boral Bricks, Van Wyck Plants	7472 Van Wyck Rd, P.O. Box 99	Van Wyck	SC	29744	William Anderson	Plant Manager					(803) 286-5566	David Johnson	(334) 480-2487
52	Wienerberger Group (General Shale)	General Shale Brick Plant 30	3195 Brick Plant Rd, NW	Atlanta	GA	30318	Dave McNees	Environmental Specialist	PO Box 3547, 3211 N Roan St	Johnson City	TN	37602	(423) 282-4661		
53	Wienerberger Group (General Shale)	General Shale Brick Plant 31	2142 James Jackson	Atlanta	GA	30318	Dave McNees	Environmental Specialist	PO Box 3547, 3211 N Roan St	Johnson City	TN	37602	(423) 282-4661		
54	Wienerberger Group (General Shale)	General Shale Brick-Plants 20 & 32	CR 1000 N	Mooresville	IN	46158	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
55	Wienerberger Group (General Shale)	General Shale Brick-Corbin-Plant 33	16 Perkins Lane	Woodbine	KY	40771	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
56	Wienerberger Group (General Shale)	General Shale Brick-Hanford Div Plant 34	1136 Cedarcrest Dr	Burlington	NC	27215	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
57	Wienerberger Group (General Shale)	General Shale Brick - Plant 10	102 South Broadway	Johnson City	TN	37601	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
58	Wienerberger Group (General Shale)	General Shale Brick Plants 15 & 29	Hill St	Kingsport	TN	37662	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
59	Wienerberger Group (General Shale)	General Shale Brick Plant 7	1740 Riverside Dr	Knoxville	TN	37901	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
60	Wienerberger Group (General Shale)	General Shale Brick Plants 6 & 28	Rt 1, Hwy 11-E, Box 460	Atkins (Marion)	VA	24311	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
61	Wienerberger Group (General Shale)	General Shale Brick Plants 35 and 36	770 Webster Rd	Blue Ridge (Roanoke)	VA	24064	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
62	Wienerberger Group (General Shale)	General Shale Brick Plant 37	State Rt. 655	Somerset	VA	22972	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
63	Higgins Brick Co	Higgins Brick Co	15920 Pomona Rincon Rd	Chino Hills	CA	91709	Ray Thomas	Plant Senior Superintendent	15920 Pomona Rincon Rd	Chino Hills	CA	91709	(805) 644-5948	Michael Shaffer	(805) 644-5948
64	Continental Brick Co	Martinsburg Plant	1441 Charles Town Rd	Martinsburg	WV	25401	Charles L. Pickett	Vice President					(304) 263-6974		
65	Eureka Brick and Tile Co	Eureka Brick and Tile Co	East Hwy 64 (P.O. Box 379)	Clarksville	AR	72830	Ronnie Sexton	Plant Manager					(501) 754-3040		
66	Belden Brick Co	Redland Brick-Harmar Plant	375 Rich Hill Rd	Cheswick	PA	15024	Barry Miller	Manager-Safety, Environmental, and Quality	15718 Clear Spring Rd, PO Box 160	Williamsport	MD	21795	(301) 223-7700	Simon Whalley	(301) 223-7700
67	Hanson, PLC	US Brick - Holly Springs Plant	700 Hwy 7 North	Holly Springs	MS	38635	Paul Anderson	Assistant Manager Engineering and Research					(940) 325-9466		
68	Old Virginia Brick Co	Madison Heights, Virginia Plant	Mitchell Bell Rd	Madison Heights	VA	24572	William F. Walker	Vice President Engineering/Division Manager	PO Box 740	Madison Heights	VA	24572	(804) 929-6411		
69	Old Virginia Brick Co	Salem, Virginia Plant	2500 West Main St	Salem	VA	24153	William F. Walker	Vice President Engineering/Division Manager	PO Box 740	Madison Heights	VA	24572	(804) 929-6411		
70	Hanson, PLC	US Brick - Mineral Wells Plant	500 N.E. 14th Ave	Mineral Wells	TX	76067	Paul Anderson	Assistant Manager Engineering and Research					(940) 325-9466		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
71	Interpace Industries Inc	Interpace Industries Inc	736 W. Harrisville Rd, P.O. Box 12118	Ogden	UT	84412	C.L. Patterson	Plant Manager					(801) 782-7933		
72	Boral Industries, Inc	Boral Bricks, Salisbury Plants	700 North Long St	Salisbury	NC	28145	CH2MHill for David Johnson	Consultant	100 Brickyard Rd	Phenix City	AL	36869	(334) 480-2487	David Johnson	(334) 480-2487
73	Boral Industries, Inc	Boral Bricks, Atlanta Plant	5472 Oakdale Rd	Smyrma	GA	30082	Guiomar Obregon	Analyst	500 Northridge Rd, Suite 300	Atlanta	GA	30350	(770) 645-4500	David P. Johnson	(334) 480-2487
74	Boral Industries, Inc	Boral Bricks, Macon, Georgia Plant	7110 10th St	Macon	GA	31208	Guiomar Obregon	Analyst	500 Northridge Rd, Suite 300	Atlanta	GA	30350	(770) 645-4500	David P. Johnson	(334) 480-2487
75	Wheeler Brick Co, Inc	Wheeler Brick Co, Inc	2905 Dan Ave, P.O. Box 250	Jonesboro	AR	72403 -0250	Randall Wheeler	President	PO Box 250				(870) 935-5182	Randy Wheeler (Jr)	(870) 935-5182
76	Scott Jewett Truck Line, Inc	Mangum Brick	2316 N Louis Tittle Ave	Mangum	OK	73554	Ron Gay	Sales Manager					(580) 782-2324		
77	Hanson, PLC	US Brick-Elgin Plant	Rt.6, Box 338	Elgin	TX	78621	Paul Anderson	Assistant Manager Engineering and Research					(940) 325-9466		
78	Henry Brick Company, Inc	Henry Brick Co, Inc	3409 Water Ave	Selma	AL	36703	C. Elton Birch, Jr.	Vice President/Production					(334) 875-2600		
79	Morin Brick Co	Lachance Div	392 Mosher Rd	Gorham	ME	4038	Norman E. Davis	Treasurer	Old Danville Rd, PO Box 36	Danville	ME	4223	(207) 784-9375		
80	Stone Creek Brick Co	Stone Creek Brick Co	103 North St	Stone Creek	OH	43840	Dick Graham	General Manager					(330) 339-5511	Greg Myers	(330) 339-5511
81	Boral Industries, Inc	Boral Bricks, Phenix City, Plant 4	100 Brickyard Rd, Plant 4	Phenix City	AL	36865	Andrew S. R. Wichers	Regional Safety Manager	100 Brickyard Rd	Phenix City	AL	36865	(334) 480-2407	David Johnson	(334) 480-2487
82	Boral Industries, Inc	Boral Bricks, Muskogee Plant	3101 West 53rd St South	Muskogee	OK	74401	Andrew S. R. Wichers	Regional Safety Manager	PO Box 1178	Columbus	GA	31902 -1178	(334) 480-2407	David Johnson	(334) 480-2487
83	Cunningham Brick Company, Inc	Cleveland County Facility	1622 Longbranch Rd	Grover	NC		Richard W. Cunningham	Secretary	701 N Main St	Lexington	NC	27292	(336) 472-6181		
84	Cunningham Brick Company, Inc	Thomasville	1437 Cunningham Brick Yard Rd	Thomasville	NC	27360	Richard W. Cunningham	Secretary	701 N Main St	Lexington	NC	27292	(336) 472-6181		
85	Wienerberger Group (General Shale)	General Shale Brick - Plant 18	13207 Memorial Parkway, South	Huntsville	AL	35803	Dave McNees	Environmental Specialist	PO Box 3547	Johnson City	TN	37602	(423) 282-4661		
86	Pacific Coast Building Products	H.C. Muddox	4875 Bradshaw Rd	Sacramento	CA	95827 -9705	Mark Nunes	Production Superintendent	4875 Bradshaw Rd	Sacramento	CA	95827	(916) 368-4567	Normita Callison	(916) 339-8128
87	Mutual Materials Co	Mica Brick Plant Facility	10627 South State Hwy 27	Mica	WA	99023	George Beamer	Assistant R&D Lab Director	PO Box 14705	Spokane	WA	99214	(509) 924-2120		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
88	Mutual Materials Co	Newcastle Brick Plant Facility	6620 Coalcreek Parkway SE	Renton	WA	98055	George Beamer	Assistant R&D Lab Director	PO Box 14705	Spokane	WA	99214	(509) 924-2120		
89	Richland Moulded Brick Co	Richland Moulded Brick Co	1000 Richland Shale Rd, P.O. Box 1711	Mansfield	OH	44901	Scott W. Frame, PE	Vice President					(419) 524-0000		(205) 237-2887
90	Sioux City Brick and Tile Co	United Brick & Tile, Adel Plant	1831 W. Main St, P.O. Box 35	Adel	IA	50003	Steven G. Gerhart	Vice President of Administration	310 S Floyd Blvd, PO Box 807	Sioux City	IA	51102	(712) 258-6571	Larry Smidt	(515) 993-4549
91	Stiles and Hart Brick Co	The Stiles and Hart Brick Co	Cook Street, P.O. Box 367	Bridgewater	MA	2324	Francis O. Mansfield	Vice President					(508) 697-6928		
92	Justin Industries	Acme Brick-Kanopolis Plant	1915 Arenia L	Kanopolis	KS	67454	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
93	Justin Industries	Acme Brick-Weir Plant	South Washington St	Weir	KS	66781	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
94	Justin Industries	Acme Brick-Dixie Plant	3457 Hwy 792	Jamestown	LA	71045	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
95	Justin Industries	Acme Brick-Oklahoma City Plant	500 E. Memorial Rd	Oklahoma City	OK	73114	Mike Vickers	Director of Research					(940) 382-3573	Bob Simmons	(940) 382-3573
96	Justin Industries	Acme Brick-Tulsa Plant	4103 Dawson Rd	Tulsa	OK	74115	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
97	Justin Industries	Acme Brick-Denton Tunnel Plant	220 E Danels Plant	Denton	TX	76205	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
98	Justin Industries	Acme Brick-Elgin Tunnel Plants	FM Road 696	Elgin	TX	78621	Mike Vickers	Director of Research					(940) 382-3573	Bob Simmons	(940) 382-3573
99	Justin Industries	Acme Brick-McQueeney Plant	FM I25	McQueeney	TX	78123	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
100	Wienerberger Group (General Shale)	Cherokee Sanford Beltsville Facility	7100 Murikirk Rd	Beltsville	MD	20705	J. Warren Paschal	Environmental Compliance Manager	1600 Colon Rd	Sanford	NC	27330	(919) 774-5306		
101	Wienerberger Group (General Shale)	Cherokee Sanford Moncure Facility	SR1923	Moncure	NC	27330	J. Warren Paschal	Environmental Compliance Manager	1600 Colon Rd	Sanford	NC	27330	(919) 774-5306		
102	Wienerberger Group (General Shale)	Cherokee Sanford Lee County Facility	737 Colon Rd	Sanford	NC	27330	J. Warren Paschal	Environmental Compliance Manager	1600 Colon Rd	Sanford	NC	27330	(919) 774-5306		
103	Wienerberger Group (General Shale)	Cherokee Sanford Sanford Facility	1600 Colon Rd	Sanford	NC	27330	J. Warren Paschal	Environmental Compliance Manager	1600 Colon Rd	Sanford	NC	27330	(919) 774-5306		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
104	Kasten Clay Products Co	Kasten Clay Products Co	713 Lee Ave, Hwys 25 & 61	Jackson	MO	63755	Quent Kasten	Engineering Manager					(573) 243-3591		
105	Can Clay Corp	Can Clay Corp	402 Washington St	Cannelton	IN	47520	Mark Bruce	President					(812) 547-3461		
106	MCP Industries, Inc	Mission Clay Products Phoenix	4850 W. Buckeye Rd	Phoenix	AZ	85043	A. Joel Frazier	Manager Ceramic Technology					(316) 231-1400		
107	MCP Industries, Inc	Mission Clay Products Corona	23835 Temescol Canyon Rd	Corona	CA	91719 -5235	A. Joel Frazier	Manager Ceramic Technology					(316) 231-1400		
108	MCP Industries, Inc	Mission Clay Products Pittsburg	900 E. 2nd	Pittsburg	KS	66762	A. Joel Frazier	Manager Ceramic Technology					(316) 231-1400		
109	MCP Industries, Inc	Mission Clay Products Saspamco	Old Corpus Christi Rd	Elmendorf	TX	78112	A. Joel Frazier	Manager Ceramic Technology					(316) 231-1400		
110	Belden Brick Co	Plant 1 Strasburg	7666 Reed Rd, NW	Strasburg	OH	44680	John C. Jensen	Manager of Environmental Operations	PO Box 430	Sugarcreek	OH	44681	(330) 852-2424		
111	Belden Brick Co	Plant #3 Sugarcreek	690 Dover Rd NE	Sugarcreek	OH	44681	John C. Jensen	Manager of Environmental Operations	PO Box 430	Sugarcreek	OH	44681	(330) 852-2424		
112	Belden Brick Co	Sugarcreek Plants 4,6,& 8	(#4's) 475 Dover Rd, NC	Sugarcreek	OH	44687	John Jensen	Manager of Environmental Operations	PO Box 430	Sugargreek	OH	44681	(330) 852-2424		
113	Morin Brick Co	Morin Brick Co	Old Danville Rd, P.O. Box 36	Danville	ME	4223	Norman E. Davis	Treasurer					(207) 784-9375		
114	Mutual Materials Co	Columbia Brick Plant Facility	2300 S.E. Hogan Rd	Gresham	OR	97080	George Beamer	Assistant R&D Lab Director	POBox 14705	Spokane	WA	99214	(509) 924-2120		
115	Southern Brick & Tile Co, Inc	Southern Brick & Tile Co, Inc	8589 Hwy 178 W	Byhalia	MS	38611	R. D. Kight	President					(601) 838-2141		
116	Summit Pressed Brick and Tile Co	Brick Plant and Storange Yard	13 th and Erie St	Pueblo	CO	81001	Ed Henne	Director Environmental Health and Safety					(719) 542-8278		
117	Superior Clay Corp	Superior Clay Corp	6566 Superior Rd SE, P.O. Box 352	Uhrichsville	OH	44683	Elmer W. McClave III	Vice President					(740) 922-4122		
118	Justin Industries	Texas Clay	West Bartlett St	Malakoff	TX	75148	Maury Ward	President	PO Box 469	Malakoff	TX	75148	(903) 489-1331	Bob Ferbend	(817) 860-0274
119	Tri-State Brick & Tile	B- Plant	2050 Forest Ave	Jackson	MS	39213	Carl Craig	QC Supervisor					(601) 981-1410		
120	Texas Industries	Athens Brick Caddo Plant	8469 Barnette Rd	Mooringsport	LA	71060	Robert B. Cain	Senior Environmental Engineer	1341 W. Mockingbird Lane	Dallas	TX	75247	(972) 647-3932		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
121	Texas Industries	Athens Brick Mineral Wells Plant	7510 Hwy 180 East	Mineral Wells	TX	76080	Robert B. Cain	Senior Environmental Engineer	1341 W. Mockingbird Lane	Dallas	TX	75247	(972) 647-3932		
122	Ochs Brick Co	Ochs Brick Co-Springfield Plant	915 East Rock St	Springfield	MN	56087	Phil Weller	Plant Manger VA production	Hwy 14 E, PO Box 106	Springfield	MN	56087	(507) 723-4221	Andy Reiter	(507) 723-4221
123	Pacific Coast Building Products	Gladding McBean	601 7th St	Lincoln	CA		Normita Callison	Corp. Environmental Specialist					(916) 339-8128		
124	Watsontown Brick Co	Watsontown Brick Co	P.O. Box 68, South Main St	Watsontown	PA	17777	Michael Fisher	President					(717) 538-2555		
125	Justin Industries	Acme Brick-Bridgeport Plant	102 Main St	Bridgeport	TX	76426	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
126	Justin Industries	Acme Brick-Garrison Plant	257 Brickyard Rd	Garrison	TX	75946	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
127	Justin Industries	Acme Brick-Fort Smith Plant	2723 Old Greenwood Rd	Fort Smith	AR	72903	Mike Vickers	Director of Research					(940) 382-3573	Bob Simmons	(940) 382-3573
128	Justin Industries	Acme Brick-San Felipe Plant	562 Peter San Felip Rd	Sealy	TX	77474	Mike Vickers	Director of Research					(940) 382-3573	Robert Simmons	(940) 382-3573
129	Justin Industries	Acme Brick-Ouachita Plant	Grigsby Ford Rd	Malvern	AR	72104	Mike Vickers	Director of Research					(940) 382-3573	Bob Simmons	(940) 382-3573
130	Belden Brick Co	Plant #9 Sugarcreek	225 E. Main St	Sugarcreek	OH	44681	John C. Jensen	Manager of Environmental Operations	PO Box 430	Sugarcreek	OH	44681	(330) 852-2424		
131	Boral Industries, Inc	Boral Bricks, Phenix City, Plant 3	100 Brickyard Rd, Plant 3	Phenix City	AL	36869	Andrew S. R. Wichers	Regional Safety Manager	PO Box 1178	Columbus	GA	31902 -1178	(334) 480-2407	David Johnson	(334) 480-2487
132	Boral Industries, Inc	Boral Bricks, Phenix City, Plant 1 & 2	100 Brickyard Rd, Plant 1	Phenix City	AL	36865	Andrew S. R. Wichers	Regional Safety Manager	PO Box 1178	Columbus	GA	31902 -1178	(334) 480-2407	David Johnson	(334) 480-2487
133	Boral Industries, Inc	Boral Bricks, Augusta Plants 3 & 5	1630 Athern Rd	Augusta	GA	30901	Guiomar Obregon	Analyst	500 Northridge Rd, Suite 300	Atlanta	GA	30350	(770) 645-4500	David Johnson	(334) 480-2487
134	Commercial Brick Corp	Commercial Brick Corp	Old Hwy 270	Wewoka	OK	74884	Bob Hartsock	President	PO Box 1382	Wewoka	OK	74884	(405) 257-6613		
135	Lee Brick and Tile Co	Lee Brick and Tile Co	3704 Hawkins Ave	Sanford	NC	27330	J. R. Holton	Secretary/Treasurer					(919) 774-4800	Nathan J. Hansen	(919) 755-5011
136	Old Carolina Brick Co	Old Carolina Brick Co	425 Majolica Rd	Salisbury	NC	28144	Scott W. Frame, PE	Vice President	PO Box 1617	Anniston	AL	36202	(205) 237-2887		
137	Pine Hall Brick Co, Inc	Madison Plant	634 Lindsay Bridge Rd	Madison	NC	27025	Harold Newman	Manager of Technical Services					(336) 548-6007		
138	Boral Industries, Inc	Boral Bricks, Marshall Plant	1920 N. Franklin St	Marshall	TX	75670	Guiomar Obregon	Analyst	500 Northridge Rd, Suite 300	Atlanta	GA	30350	(770) 645-4500	David Johnson	(334) 480-2487

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
139	L.P. McNear Brick Co, Inc	McNear Brickyard	1 McNear Brickyard Rd	San Rafael	CA	94901	Dan McNear	Vice President	PO Box 151380	San Rafael	Ca	94915	(415) 453-7702		
140	Sioux City Brick and Tile Co	Sergeant Bluff Plant	504 F St	Sergeant Bluff	IA	51054	Steven G. Gerhart	Vice President of Administration	310 South Floyd Blvd, PO Box 807	Sioux City	IA	51102	(712) 258-6571	Robert Sheets	(712) 943-5581
141	Stark Ceramics, Inc	Stark Ceramics, Inc	600 West Church St	East Canton	OH	44730	Surinder Maheshwary	Vice President of Operations					(330) 488-1211		
142	Logan Clay Products	Logan Clay Products	201 S. Walnut St	Logan	OH	43138	William Heft	Plant Superintendent					(740) 385-2184	David Chapman	(740) 385-2184
143	Justin Industries	Acme Brick-Perla Plant	US Hwy 67 North	Malvern	AR	72104	Mike Vickers	Director of Research					(940) 382-3573		
144	Texas Industries	Athens Brick Plant	200 Athens Brick Rd	Athens	TX	75751	Robert B. Cain	Senior Environmental Engineer	1341 W Mockingbird Lane	Dallas	TX	75247	(972) 647-3932		
145	Jordan Industries	Hebron Brick Plant	1000 Washington Ave, East	Hebron	ND	58638	Brian Jennings	Project Manager					(701) 878-4428		
146	Boral Industries, Inc	U.S. Tile	909 West Railroad St	Corona	CA	91720	Victor F. Mena	HR & Safety Manager					(909) 737-0200		
147	Yankee Hill Brick and Tile	Yankee Hill Brick and Tile	3705 S. Coddington	Lincoln	NE	68522	Dave Kendle	Plant Engineer					(402) 477-6663 ext. 45		
148	Belden Brick Co	Redland Brick-K F Plant	1440 John Fitch Blvd.	South Windsor	CT	6074	Barry Miller	Manager-Safety, Environmental & Quality	15718 Clear Spring Rd	Williamsport	MD	21795	(301) 223-7700 ext. 7147	Simon Whalley	(301) 223-7700 ext. 7147
149	Belden Brick Co	Redland Brick-Cushwa Plant	15718 Clear Spring Rd, P.O. Box 160	Williamsport	MD	21795	Barry Miller	Manager-Safety, Environmental & Quality					(301) 223-7700 ext. 7147	Simon Whalley	(301) 223-7700 ext. 7147
150	Hanson, PLC	US Brick, Inc - Michigan	3820 East Serr Rd	Corunna	MI	48817	Dave Worthington	Environmental/Safety Director					(517) 743-3444		
151	Justin Industries	Acme Brick-Bennett Tunnel Plant	2350 Bennett Rd	Milsap	TX	76066	Mike Vickers	Director of Research					(940) 382-3573		
152	Carolina Ceramics (MKB Acquisitions)	Carolina Ceramics (MKB Aquisitions)	9931 Two Notch Rd	Columbia	SC	29223	Matt Shealy						(803) 788-1796 ext. 131		
153	Elgin-Butler Brick Co	Elgin Butler Brick	FM 696 (P.O. Box 546)	Elgin	TX	78621	Robert Butler	Mgr Safety,Env,Human Resource, & Quality Assurance					(512) 281-3358		
154	Pacific Coast Building Products	Interstate Brick Co	9780 South 5200 West	West Jordan	UT	84088	Brady Anderton	Process Engineer					(801) 280-5287	Normita Callison	(916) 339-8128
155	The Denver Brick Co	The Denver Brick Co	401 North Santa Fe Rd	Castle Rock	CO	80104	Ronald W. Stuart	Environmental Manager					(303) 688-6951		

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
156	New London Brick Works	New London Brick Works	17375 Old Beattie Ford Rd	Gold Hill	NC	28144	David P. Frame	President	17375 Old Beattie Ford	Gold Hill	NC	28144	(704) 279-6901		
157	Robinson Brick Co	Robinson Brick Co	1845 W. Dartmouth Ave	Denver	CO	80110	Michael Leidich	Vice President, Mining and Materials					(303) 783-3047		
158	General Finance, Inc	Cloud Ceramics	RR 3 P.O. Box 369	Concordia	KS	66901	Donald E. Kling	President and General Manager	611 East 13th St	Concordia	KS	66901	(785) 243-7922	Andy Reiter	(785) 243-1284
159	Ragland Clay Products, LLC	Ragland Clay Products, LLC	J.C. Ford Industrial Dr, P.O. Box 160	Ragland	AL	35131	Geoff Dunlap	President					(205) 472-2136		
179	Saint Joe Brick Works, Inc	Saint Joe Brick Works, Inc	63076 Highway 1091	Pearl River	LA	70452	M.P. (Pete) Schneider	President	P.O. Box 400	Slidell	LA	70459	(504) 863-6161		
181	Certainteed Corporation	Ludowici Roof Tile, Inc.	4757 Tile Plant Road	New Lexington	OH	43764	Brad Smith	Plant Engineer					(740) 342-1995		
183	London Tile Company	London Tile Company	65 Walnut Street	New London	OH	44851	Sylvia Danison	President					(419) 929-1551		
184	Metropolitan Ceramics, Inc.	Metropolitan Ceramics, Inc.	1201 Millerton Road, SE	Canton	OH	44707	Philip McGuinness	Technical Director					(330) 486-4887		
185	Seneca Tiles, Inc.	Seneca Tiles, Inc.	7100 S. County Road. 23	Attica	OH	44807	James D. Fry	President					(419) 426-3561		
186	Summitville Tiles, Inc.	Summitville Tiles, Inc.-Minerva Plant	1310 Alliance Road, P.O. Box 283	Minerva	OH	44657	James A. Miller	Plant Manager					(330) 868-6771		
187	Summitville Tiles, Inc.	Summitville Factory	State Route 644	Summitville	OH	43962	John H Hothem	Vice President					(330) 223-1511		
188	Dti Investors, LLC	Dal-Tile, Fayete, Alabama	1470 Country Road, 21 South	Fayette	AL	35555	Normain Shain	Environmental/Safety Coordinator	P.O. Box 170130	Dallas	TX	75217 -0130	(214) 309-3492		
189	Dti Investors, LLC	Dal-Tile, Lewisport, Kentucky	675 Melanie Lane	Lewisport	KY	42351	Norman Shain	Enviromental/Safety Coordinator	7834 C.F. Hawn Freeway	Dallas	TX		(214) -30-9-3492		
160NR	Snyder Brick and Tile	Snyder Brick and Tile	901 East US Highway 180	Snyder	TX	79549									
161NR	General Clay Products Corp	General Clay Products Corp	550 Zanesville Avenue	Logan	OH	43138									
162NR	General Clay Products Corp	General Clay Products Corp	39420 US Highway 33	Nelsonville	OH	45764									
163NR	General Clay Products Corp	General Clay Products Corp	9866 Mount Eaton Road	Wadsworth	OH	44281									
164NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	1519 Highway 6	Redfield	IA	50233									
165NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	101 Brick Road	Chillicothe	MO	64601									

TABLE 1. (CONTINUED)

FACID	Company	Facility	Street	City	State	Zip	Respondent	Title	Resp. Street	Resp. City	Resp state	Resp zip	Resp Telephone	Other contact	Other telephone
166NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	95 Hamilton Road	Hillsborough	NJ	8844									
167NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	5692 Rinker Road	Caledonia	OH	43314									
168NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	3785 Cardington Iberia Road	Iberia	OH	43325									
169NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp		Bigler	PA	16825									
170NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	423 South Pottsville Pike	Shoemakersville	PA	19555									
171NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp		Summerville	PA	15864									
172NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	1090 East Boundary Avenue	York	PA	17403									
173NR	Ibstock, PLC (Glen-Gery Corp)	Glen-Gery Corp	9905 Godwin Drive	Manassas	VA	20110									
174NR	Hope Brick Works	Hope Brick Works	East Avenue A	Hope	AR	71801									
175NR	Kansas Brick and Tile Co	Kansas Brick and Tile Co	Highway 281	Hoisington	KS	67544									
176NR	Pacific Clay Products	Pacific Clay Products	14741 Lake Street	Lake Elsinore	CA	92530									
177NR	Iskilar Brick, Inc	Powell & Minnock Brick Works, Inc		Coeymans	NY	12045									
178NR	International Chimney Corp	Continental Clay Co	260 Oak Avenue	Kittanning	PA	16201									
180NR	Vermont Brick Manufacturing, LP	Vermont Brick	P.O. Box 330	Highgate	VT	5459									
182NR	Yadkin Brick Company, Inc.	Yadkin Brick	44052 Yadkin Brick Road	New London	NC	28127									

TABLE 2: FACILITY INFORMATION, PART II

FACID	Latitude	Longitude	SIC	Dun & Bradstreet	Company employees	Facility employees	Shift 1 employees	Shift1 hrs	Shift 1 days	Shift 2 employees	Shift 2 hrs	Shift2 days	Shift 3 employees	Shift 3 hrs	Shift 3 days	Other standard	Permit	Facility type	Major source status
1	380525	854317	3251	003383361	1600	110	99	8	250	9	8	250	2	8	250	FALSE	TRUE	B	major
2	314720	1063230	3251	008404410	40	40	34	8	255	4	8	255	2	8	365	FALSE	FALSE	B	major
3	334857	1171429	3251		44	5	4	8	250	1	8	250				FALSE	FALSE	B	major
4	335400	1181500	3251		44	30	24	8	250	2	8	365	2	8	365	FALSE	FALSE	B	major
5	332034	865810	3251	003275682	1500	49	45	10	312	3	8	312	1	8	364	TRUE	FALSE	B	major
6	332058	865730	3251	003275682	1500	48	25	10	258	22	10	258	1	8	365	FALSE	TRUE	B	major
7	332559	815913	3251	003275682	1500	41	41	8	260							TRUE	FALSE	B	major
8	393619	771932	3251	003275682	750	35	33	8	250	1	8	365	1	8	365	FALSE	FALSE	B	major
9	344143	794933	3251		160											FALSE	FALSE	B	area (synth)*
10	330537	883425	3251	003275682	1500	99	96	10	281	1	8	364	1	1	364	TRUE	FALSE	B	major
11	335825	811135	3251	003275682	1500	53	41	8	270	7	8	270	5	12	183	FALSE	FALSE	B	major
12	361357	883758	3251	003275682	1500	47	45	8	250	1	8	365	1	8	365	FALSE	FALSE	B	major
13	321051	944717	3251	026389254	1500	128	125	10	312	3	12	182				FALSE	TRUE	B	major
14	402600	811119	3251		80	30	25	8	250	3	8	250	2	8	250	FALSE	TRUE	B	major
15	400439	821501	3251		80	33	28	8	250	3	8	250	2	8	250	FALSE	TRUE	B	major
16	364510	775200	3251	003134384	120	42	40	8	260	1	8	260	1	8	260	FALSE	TRUE	B	major
17	364543	774655	3251	003134384	120	65	63	8	260	1	8	260	1	8	260	FALSE	TRUE	B	major
17	343022	1183657	3251		90	90	80	8	260	8	8	260	2	8	260	FALSE	FALSE	B	area*
19	324735	833735	3251	003321916	222	222	200	10	260	13	10	260	4	10	260	FALSE	TRUE	B	major
20	332515	1120502	3251		90	90	84	10	260	2	8	365	2	8	365	FALSE	TRUE	B	major
21	291949	991646	3251		35	35	35	8	250							FALSE	FALSE	B	area
22	484838	802540	3251		1600	80	2	8	365	58	8	260	20	8	260	TRUE	FALSE	B	major
23	400435	970735	3251	007268535	195	190	157	9	280	26	9	280	7	9	280	FALSE	TRUE	B	major
24	275936	821013	3251		45	45	39	9	312	3	11	260	3	8	365	FALSE	TRUE	B	area
25	350200	803500	3251		1500	180										FALSE	FALSE	B	major
26	355804	794603	3251		1500	82										FALSE	FALSE	B	major
27	345830	783330	3251		1500	59										FALSE	FALSE	B	major
28	350700	812927	3251		1500	43										FALSE	FALSE	B	major
29	382215	824430	3251		1500	30										FALSE	FALSE	B	major
30	375234	834132	3251		1500	75										FALSE	FALSE	B	major
31	340315	810345	3251		1500	190										FALSE	FALSE	B	major
32	340920	815720	3251		1500	120										FALSE	FALSE	B	major
33	395624	872818	3251		47	47	41	8	250	2	8	365	2	8	365	FALSE	FALSE	B	area
34	333051	882446	3251		58	58	46	8	260	1	8	365	1	8	365	FALSE	FALSE	B	major
35	322730	861949	3251		380	88	74	8	260	10	8	260	2	8	365	FALSE	FALSE	B	major

TABLE 2. (CONTINUED)

FACID	Latitude	Longitude	SIC	Dun & Bradstreet	Company employees	Facility employees	Shift 1 employees	Shift1 hrs	Shift 1 days	Shift 2 employees	Shift 2 hrs	Shift2 days	Shift 3 employees	Shift 3 hrs	Shift 3 days	Other standard	Permit	Facility type	Major source status
36	322358	861812	3251		380	41	39	8	260	1	8	365	1	8	365	FALSE	FALSE	B	major
37	305422	903055	3251		75	75	75	8	260							FALSE	TRUE	B	major
38	3503	1063700	3251		25	25	21	8	250	4	8	365				FALSE	TRUE	B	area
39	394415	1050352	3251		109	32	30	8	286	2	8	365	1	8	365	FALSE	FALSE	B	major
40	330708	8901	3251		38	38	33	9	255	2	12	182	3	8	255	FALSE	FALSE	B	major
41	411917	884059	3251		4700	63	57	8	260	5	8	260	1	8	365	FALSE	TRUE	B	major
42	400734	752908	3251		31	29	1	8	365	26	8	260	1	8	365	FALSE	TRUE	B	major
43	361012	775419	3251	003193190	57	53	49	8	230	1	8	329	1	8	329	FALSE	TRUE	B	major
44	3745	8710	3251		30	26	2	8	365	21	8	260	2	8	365	FALSE	TRUE	B	area
45	384835	895644	3251		70	61	61	8	252							FALSE	FALSE	B	major
46	354249	810235	3251	003217148	73	73	69	8	260	4	12	365				FALSE	TRUE	B	major
47	353715	803115	3251		78	78	74	8	351	4	12	351				FALSE	FALSE	S	major
48	355020	785307	3251	003182672	501	31	23	8	365	6	8	365	2	8	365	FALSE	TRUE	B	major
49	353800	790000	3251	003182672	501	69	56	8	365	13	8	365	0	8	365	TRUE	TRUE	B	major
50	341319	793106	3251		66	66										FALSE	FALSE	B	major
51	345122	805055	3251	003275682	1500	116	110	9	270	3	10	270	3	10	270	TRUE	FALSE	B	major
52	334830	842919	3251	003383361	1600	103	77	8	250	19	8	250	7	8	250	FALSE	TRUE	B	major
53	334846	842849	3251	003383361	1600	69	39	8	250	27	8	250	3	8	250	FALSE	TRUE	B	major
54	393429	862207	3251	003383361	1600	105	83	8	250	20	8	250	1	8	250	FALSE	TRUE	B	major
55	365355	840537	3251	003383361	1600	60	57	8	250	2	8	250	1	8	250	TRUE	TRUE	B	major
56	360340	792530	3251	003383361	1600	27	25	8	250	1	8	250	1	8	250	FALSE	TRUE	B	major
57	361946	822022	3251	003383361	1600	81	70	8	250	7	8	250	4	8	250	FALSE	TRUE	B	major
58	363226	823330	3251	003383361	1600	110	94	8	250	8	8	250	8	8	250	FALSE	TRUE	B	major
59	353748	835337	3251	003383361	1600	94	68	8	250	20	8	250	6	8	250	TRUE	TRUE	B	major
60	365258	812231	3251	003383361	1600	95	81	8	250	12	8	250	2	8	250	FALSE	TRUE	B	major
61	372115	794940	3251	003383361	1600	119	101	8	250	16	8	250	2	8	250	TRUE	TRUE	B	major
62	381216	781351	3251	003383361	1600	63	51	8	250	8	8	250	4	8	250	FALSE	FALSE	B	major
63	335746	1174121	3251	042403857	25	16	16	9	210							FALSE	TRUE	B	major
64	392558	775730	3251		43	43	39	8	260	2	8	365	2	8	365	FALSE	FALSE	B	major
65	352800	932500	3251		60	60	58	8	260	1	8	260	1	8	260	FALSE	TRUE	B	major
66	403330	795030	3251	614389427	750	36	33	8	260	2	8	260	1	8	365	FALSE	TRUE	B	major
67	344708	892708	3251		1500	43										FALSE	FALSE	B	major
68	372654	790723	3251		159	40	40	10	200	3	8	200	2	8	200	FALSE	TRUE	B	major
69	371706	800600	3251		159	91	85	10	200	4	8	200	2	8	200	FALSE	TRUE	B	major

TABLE 2. (CONTINUED)

FACID	Latitude	Longitude	SIC	Dun & Bradstreet	Company employees	Facility employees	Shift 1 employees	Shift1 hrs	Shift 1 days	Shift 2 employees	Shift 2 hrs	Shift2 days	Shift 3 employees	Shift 3 hrs	Shift 3 days	Other standard	Permit	Facility type	Major source status
70	324856	980693	3251		1500	68										FALSE	FALSE	B	major
71	411530	1125730	3251		40	34	30	9	260	2	12	182	2	12	182	FALSE	FALSE	B	major
72	353953	850013	3251	003275682	1500	188	81	8	365	54	8	365	53	8	365	TRUE	FALSE	B	major
73	334916	843004	3251	003275682	1500	59	42	9	357	17	10	357				FALSE	FALSE	B	major
74	324926	833710	3251	003275682	1500	38	38	9	286							FALSE	FALSE	B	major
75	351000	904530	3251	007016686	45	41	39	10	254	2	12	182				FALSE	FALSE	B	major
76	345305	9930	3251		52	52	47	8	260	2	8	365	1	8	365	FALSE	FALSE	B	major
77	293752	981529	3251		1500	37										FALSE	FALSE	B	major
78	322431	865953	3251	003395811	97	97	93	8	260	2	12	365	2	12	365	FALSE	FALSE	B	major
79	434209	702431	3251		76	31	28	8	365	1	8	365	1	8	365	FALSE	TRUE	B	area
80	402600	814000	3251	004465498	65	65	61	8	260	2	8	260	2	8	260	FALSE	FALSE	B	major
81	322346	850029	3251	003275682	1500	101	90	8	359	8	8	359	3	8	365	FALSE	FALSE	B	major
82	354053	952435	3251	003275682	1500	47	42	8	360	4	8	360	1	8	365	TRUE	FALSE	B	major
83	351038	812504	3251		109	41	39	8	260	1	8	365	1	8	365	FALSE	FALSE	B	major
84	354745	800802	3251		109	68	66	8	260	1	8	365	1	8	365	TRUE	TRUE	B	major
85	343528	863340	3251	003383361	1600	45	43	8	250	1	8	250	1	8	250	FALSE	TRUE	B	major
86	383200	1202000	3251	029043056	1500	58	50	8	260	7	8	260	1	8	260	FALSE	FALSE	B	major
87	473351	1171256	3251	009244377	499	61	59	8	260	1	8	365	1	8	365	TRUE	TRUE	B	major
88	473200	1220900	3251	009244377	499	58	46	8	260	11	8	260	1	8	365	FALSE	TRUE	B	major
89	404730	823000	3251		41	39	37	8	255	1	8	360	1	8	360	TRUE	FALSE	B	major
90	413700	940157	3251	007273915	240	106	104	8	260	1	8	365	1	8	365	FALSE	FALSE	B	major
91	415821	705832	3251		36	36	36	8	230							FALSE	TRUE	B	major
92	384244	980902	3251		1500	34										FALSE	FALSE	B	major
93	371708	944343	3251		1500	41										FALSE	FALSE	B	major
94	322211	931248	3251		1500	35										FALSE	FALSE	B	major
95	353609	973801	3251		1500	45										FALSE	FALSE	B	major
96	361048	955548	3251	008018772	1500	75										FALSE	FALSE	B	major
97	331111	970805	3251		1500	128										FALSE	FALSE	B	major
98	301909	971736	3251		1500	70										FALSE	FALSE	B	major
99	293421	980223	3251		1500	70										FALSE	FALSE	B	major
100	390342	765303	3251	003191509	1600	67	65	8	365	1	8	365	1	8	365	FALSE	TRUE	B	major
101	353300	7009	3251	003191509	1600	170	160	8	365	7	8	365	3	8	365	FALSE	TRUE	B	major
102	352948	791006	3251	003191509	1600	73	69	12	365	4	12	365				FALSE	TRUE	B	major
103	353133	790941	3251	003191509	1600	189	151	12	365	38	12	365				TRUE	TRUE	B	major

TABLE 2. (CONTINUED)

FACID	Latitude	Longitude	SIC	Dun & Bradstreet	Company employees	Facility employees	Shift 1 employees	Shift1 hrs	Shift 1 days	Shift 2 employees	Shift 2 hrs	Shift2 days	Shift 3 employees	Shift 3 hrs	Shift 3 days	Other standard	Permit	Facility type	Major source status
104	372230	894015	3251	006299242	35	35	35	8	286							FALSE	TRUE	B	major
105	375445	864500	3259		100	100										FALSE	TRUE	S	major
106	332613	1120949	3259		175	50										FALSE	FALSE	S	area
107	334647	1172908	3259		175	50										FALSE	FALSE	S	area
108	372130	944130	3259		175	50										FALSE	FALSE	S	area
109	291415	9818	3259		175	50										FALSE	FALSE	S	area
110	403400	813100	3251		750	24	22	8	260	1	8	365	1	8	365	FALSE	FALSE	B	major
111	403030	813730	3251		750	54	52	8	260	1	8	365	1	8	365	FALSE	TRUE	B	major
112	403030	813830	3251		750	216	208	8	260	4	8	365	4	8	365	FALSE	TRUE	B	major
113	440059	701603	3251		76	45	40	8	365	2	8	365	1	8	365	FALSE	TRUE	B	major
114	453853	1221708	3251	009244377	499	20	18	8	260	1	8	260	1	8	260	FALSE	FALSE	B	area*
115	345135	894014	3251		40	40	40	8	260							FALSE	TRUE	B	major
116	381651	1043542	3251		109	55	44	8	263	9	8	254	2	12	365	FALSE	FALSE	B	major
117	402240	812138	3251		50	50										FALSE	FALSE	S	major
118	320956	960115	3251	052120979	1500	120	116	8	250	2	8	365	2	8	365	TRUE	FALSE	B	major
119	321914	901227	3251	008150997	129	96	92	8	261	2	8	365	2	8	365	FALSE	FALSE	B	major
120	324000	935652	3251	041083627	2350	25	23	8	345	1	8	365	1	8	365	FALSE	FALSE	B	major
121	3247	9804	3251	041083403	2350	19	17	8	345	1	8	365	1	8	365	FALSE	FALSE	B	major
122	441441	945747	3251	006185417	80	49	48	8	255	1	12	365				FALSE	TRUE	B	major
123	385408	1221845	3259		1500	216										FALSE	TRUE	S	major
124	410346	765053	3251		40	33										FALSE	FALSE	B	major
125	331234	974628	3251		1500	17										FALSE	FALSE	B	major
126	315021	943032	3251		1500	17										FALSE	FALSE	B	major
127	352139	942343	3251		1500	52										FALSE	FALSE	B	major
128	294944	960823	3251		1500	110										FALSE	FALSE	B	major
129	342119	924951	3251		1500	47										FALSE	FALSE	B	major
130	403130	813800	3251		750	34	32	8	260	1	8	365	1	8	365	FALSE	TRUE	B	major
131	322404	850013	3251	003275682	1500	33	26	8	359	6	8	359	1	8	365	FALSE	FALSE	B	major
132	322404	850013	3251	003275682	1500	74	39	8	359	34	8	359	1	8	365	FALSE	FALSE	B	major
133	332717	815732	3251	003275682	1500	225	186	10	252	10	10	252	5	10	252	FALSE	FALSE	B	major
134	351030	963245	3251		130	130	95	9	260	35	9	260				TRUE	FALSE	B	major
135	353230	791130	3251	003225125	80	72	70	8	250	1	8	365	1	8	365	TRUE	TRUE	B	major
136	354132	803157	3251		49	44	41	8	255	1	8	360	1	8	360	TRUE	FALSE	B	area
137	362233	795939	3251	041414541	289	258	242	8	255	10	8	365	6	8	365	TRUE	TRUE	B	major

TABLE 2. (CONTINUED)

FACID	Latitude	Longitude	SIC	Dun & Bradstreet	Company employees	Facility employees	Shift 1 employees	Shift1 hrs	Shift 1 days	Shift 2 employees	Shift 2 hrs	Shift2 days	Shift 3 employees	Shift 3 hrs	Shift 3 days	Other standard	Permit	Facility type	Major source status
138	323335	942205	3251	003275682	1500	36	34	9	260	1	8	365	1	8	365	FALSE	FALSE	B	major
139	375907	1222802	3251		65	65	62	8	250	1	8	300	1	8	300	FALSE	TRUE	B	major
140	402427	962133	3251	007273915	240	88	86	8	260	1	8	365	1	8	365	FALSE	FALSE	B	major
141	404652	811743	3251	004461711	120	120	8	8	365	104	8	280	8	8	365	FALSE	FALSE	B	major
142	393208	822120	3259		110	100										FALSE	FALSE	S	major
143	342227	924653	3251		1500	135										FALSE	FALSE	B	major
144	321215	954922	3251	041083403	2350	49	46	8	345	2	8	365	1	8	365	FALSE	FALSE	B	major
145	465412	1020216	3251	006166821	6200	50	44	8	250	1	8	350	1	8	350	FALSE	FALSE	B	major
146	335309	1173436	3259	624855896	1500	119	68	8	260	19	8	260	32	8	286	FALSE	FALSE	S	major
147	404646	964500	3251		77	77	74	8	260	2	8	260	1	8	260	TRUE	TRUE	B	major
148	415012	723618	3251	614389427	750	45	28	8	260	13	8	260	4	8	260	TRUE	FALSE	B	major
149	393603	774930	3251	614389427	750	100	75	8	260	21	8	260	4	8	260	TRUE	TRUE	B	major
150	425930	840522	3251		1500	89										FALSE	FALSE	B	major
151	324100	980306	3251		1500	17										FALSE	FALSE	B	major
152	340642	805346	3251		100	60										FALSE	FALSE	B	major
153	301918	971722	3251	NA	120	113	98	8	260	1	8	365	1	8	365	FALSE	FALSE	S	major
154	403540	1120340	3251	280008028	1500	200	110	8	280	40	8	280	20	8	280	FALSE	FALSE	B	major
155	392244	1045122	3251	026048876	90	90	20	8	260	20	8	260	20	8	260	FALSE	FALSE	B	major
156	353000	801900	3251		10	8										FALSE	FALSE	B	area
157	393945	1050024	3251		175	100										FALSE	FALSE	B	major
158	393245	900736	3251	NA	53	53	49	8	253	4	8	365				TRUE	FALSE	B	major
159	333705	860705	3251	961543121	36	33	34	8	260	1	8	260	1	8	260	FALSE	FALSE	B	major
160NR	3243	1005500	3251		10											FALSE	FALSE	B	major
161NR	393239	822352	3251		136											FALSE	FALSE	B	major
162NR	3931	8225	3251		136											FALSE	FALSE	B	major
163NR	410019	814418	3251		136											FALSE	FALSE	B	major
164NR	413503	941142	3251		4700											FALSE	FALSE	B	major
165NR	393015	933010	3251		4700											FALSE	FALSE	B	major
166NR	403018	743730	3251		4700											FALSE	FALSE	B	major
167NR	403810	825824	3251		4700											FALSE	FALSE	B	major
168NR	403816	825202	3251		4700											FALSE	FALSE	B	major
169NR	405905	781824	3251		4700											FALSE	FALSE	B	major
170NR	402904	755753	3251		4700											FALSE	FALSE	B	major
171NR	410605	790954	3251		4700											FALSE	FALSE	B	major

TABLE 2. (CONTINUED)

FACID	Latitude	Longitude	SIC	Dun & Bradstreet	Company employees	Facility employees	Shift 1 employees	Shift1 hrs	Shift 1 days	Shift 2 employees	Shift 2 hrs	Shift2 days	Shift 3 employees	Shift 3 hrs	Shift 3 days	Other standard	Permit	Facility type	Major source status
172NR	395731	764213	3251		4700											FALSE	FALSE	B	major
173NR	384427	773013	3251		4700											FALSE	FALSE	B	major
174NR	3338	9335	3251		32											FALSE	FALSE	B	major
175NR	383637	985155	3251		47											FALSE	FALSE	B	major
176NR	334335	1172333	3251		150											FALSE	FALSE	B	major
177NR	422901	734722	3251		200											FALSE	FALSE	B	major
178NR	4049	7929	3251		140											FALSE	FALSE	B	major
179	3023	8944	3251		41	31	27	8	252	2	12	208	2	12	130	FALSE	FALSE	B	area
180NR			3251		22											FALSE	FALSE	B	area
181	394245	821430	3253		1500	120										FALSE	FALSE	S	major
182NR	352717	800949	3251		35											FALSE	FALSE	B	major
183	4105	8224	3253		6	6	6	8	260							FALSE	FALSE	S	area
184	404630	812215	3253		136	136	90	10	350	3	12	350				TRUE	TRUE	S	major
185	4104	8253	3253		45	43	40	8	250	2	16	350	1	8	350	FALSE	TRUE	S	area
186	404222	810724	3253		550	124	115	8	260	8	8	260	1	8	260	FALSE	TRUE	S	major
187	400408	800534	3253		550	193	144	8	260	47	8	260	2	8	260	FALSE	FALSE	S	area
188	334149	875224	3253	002347003	4800	95	40	8	251	40	8	251	15	8	251	FALSE	TRUE	S	major
189	375546	865416	3251	002347003	4800	148	126	12	251	22	12	251				FALSE	TRUE	S	major

TABLE 3. PRODUCTION AND CAPACITY

FACID	Product	Product (basic)	1996 Production	Capacity	1996 Utilization
1	Face brick	Brick	112,706	203,700	0.5533
2	Brick	Brick	29,500	29,500	1.0000
3	Common brick	Brick	0	111,690	0.0000
4	Common brick	Brick	30,000	60,000	0.5000
5	Fired Brick	Brick	179,726	219,099	0.8203
6	Fired brick	Brick	167,401	205,917	0.8130
7	Brick	Brick	69,000	154,000	0.4481
8	Brick	Brick	24,920	42,000	0.5933
9	Face brick	Brick	157,500	206,955	0.7610
10	Brick	Brick	132,797	145,974	0.9097
11	Brick	Brick	96,511	105,015	0.9190
12	Brick (fired weigh)	Brick	88,522	116,953	0.7569
13	Brick	Brick	153,062	194,910	0.7853
14	Brick	Brick	29,000	39,420	0.7357
15	Brick	Brick	26,600	32,000	0.8313
16	Face brick	Brick	48,127	60,486	0.7957
17	Face brick	Brick	87,807	130,000	0.6754
18	Common brick	Brick	75,955	128,772	0.5898
19	Red brick	Brick	169,330	204,724	0.8271
19	Pastel brick	Brick	8,467	10,000	0.8467
20	Finished brick	Brick	56,600	90,830	0.6231
21	Clay brick	Brick	4,092	5,000	0.8184
21	Structural tile	Structural clay products	3,379	5,000	0.6758
22	Structural brick	Brick	72,941	102,500	0.7116
23	Structural brick	Brick	89,500	200,000	0.4475
23	1/2” floor & wall tile	Structural clay products	10,718	50,000	0.2144
23	Glazed 1/2” tile	Structural clay products	320	13,797	0.0232
24	Quarry tile and brick pool coping	Structural clay products	7,631	8,615	0.7264
24	Brick pavers	Brick	7,711	8,041	0.9590
25	Brick	Brick	187,042	249,556	0.7500
25	Brick bats	Crushed reject brick	5,548	7,402	0.7500
26	Face brick	Brick	97,055	116,475	0.8330
26	Brick bats	Crushed reject brick	804	965	
27	Brick bats	Crushed reject brick	2,227	2,572	
27	Face brick	Brick	65,552	75,721	0.8373

TABLE 3. (continued)

FACID	Product	Product (basic)	1996 Production	Capacity	1996 Utilization
28	Face brick	Brick	60,346	71,663	0.8370
28	Brick bats	Crushed reject brick	364	432	
29	Brick	Brick	44,000	44,000	1.0000
30	Brick	Brick	120,122	121,275	0.9905
30	Crushed brick (bats)	Crushed reject brick	573	657,000	0.0009
31	Brick	Brick	332,721	395,772	0.8407
32	Brick	Brick	135,240	226,884	0.5961
33	Brick	Brick	22,824	25,127	0.9083
34	Face brick	Brick	83,383	83,383	1.0000
35	Face brick	Brick	145,883	150,000	0.9726
36	Face brick	Brick	82,282	87,500	0.9404
37	Face brick	Brick	64,046	68,250	0.9384
38	Brick	Brick	13,200	17,300	0.7630
39	Fired brick	Brick	25,316	28,032	0.9388
40	Structural brick	Brick	34,000	34,000	1.0000
41	Face brick	Brick	104,724	136,130	0.7693
42	Structural brick	Brick	30,000	90,000	0.3333
43	Face brick	Brick	43,560	58,613	0.7432
44	Thin brick	Brick	1,050	1,750	0.6000
44	Modular brick	Brick	20,000	20,000	1.0000
45	Structural brick	Brick	46,581	66,111	0.7046
46	Structural brick	Brick	74,932	85,771	0.8736
47	Structural brick	Brick	48,600	63,431	1.0000
48	Structural brick	Brick	68,466	88,038	0.7777
49	Structural brick	Brick	186,360	464,280	0.7336
50	Paver Tile	Structural clay products	15,643	27,375	0.5714
51	Brick	Brick	146,374	172,572	0.8482
52	Face brick	Brick	154,580	215,000	0.7190
53	Face brick	Brick	136,594	190,000	0.7189
54	Face brick	Brick	196,132	250,000	0.7845
55	Face brick	Brick	111,388	218,500	0.5098
56	Face brick	Brick	38,194	50,000	0.7639
57	Face brick	Brick	109,486	130,000	0.8422
58	Face brick	Brick	166,266	194,000	0.8570
59	Face brick	Brick	154,550	177,600	0.8702
60	Face brick	Brick	145,858	196,000	0.7442

TABLE 3. (continued)

FACID	Product	Product (basic)	1996 Production	Capacity	1996 Utilization
61	Face brick	Brick	138,132	215,000	0.6425
62	Face brick	Brick	95,292	170,000	0.5605
63	Structural brick	Brick	27,230	148,920	0.1829
64	Brick	Brick	49,781	146,250	0.3404
65	Structural brick	Brick	90,000	105,000	0.8571
66	Brick	Brick	60,800	86,000	0.7070
67	Face brick	Brick	60,706	75,200	0.8073
68	Structural brick	Brick	45,650	74,000	0.6169
69	Structural brick	Brick	57,000	100,000	0.5700
70	Face brick	Brick	135,036	199,028	0.6785
71	Face brick	Brick	24,979	30,725	0.8130
72	Brick (fired weight)	Brick	266,300	280,600	0.9490
73	Brick	Brick	202,620	262,322	0.7724
74	Brick (fired weight)	Brick	92,070	100,160	0.9192
75	Brick	Brick	45,531	53,927	0.8443
76	Big John Brick	Brick	22,570	40,708	0.5544
76	King Size Brick	Brick	1,485	2,678	0.5545
76	Modular brick	Brick	375	644	0.5823
77	Face brick	Brick	48,588	162,996	0.8524
78	Face brick	Brick	189,000	189,000	1.0000
79	Structural brick	Brick	14,726	25,093	0.5869
80	Structural clay brick	Brick	30,810	38,268	0.8051
81	Brick	Brick	199,464	228,601	0.8725
82	Brick	Brick	127,743	138,621	0.9215
83	Structural brick	Brick	36,422	65,600	0.5552
84	Structural brick	Brick	77,000	84,000	0.9167
85	Face brick	Brick	73,428	80,000	0.9179
86	Brick	Brick			
87	Structural clay brick	Brick	53,330	75,000	0.7111
87	Fire brick	Brick	4,900	8,000	0.6125
87	Clay flue liners	Structural clay products	1,680	2,800	0.6000
88	Structural & facing brick	Brick	51,372	65,500	0.7843
89	Brick	Brick	6,567	50,000	0.1313
90	Face brick	Brick	66,685	74,000	0.9011
91	Structural brick	Brick	25,635	32,724	0.7834
92	Structural brick	Brick	33,545	58,500	0.5734

TABLE 3. (continued)

FACID	Product	Product (basic)	1996 Production	Capacity	1996 Utilization
93	Structural brick	Brick	34,830	35,000	0.9951
94	4 hole builder special brick	Brick	29,541	64,000	0.4616
95	Structural brick	Brick	136,406	150,000	0.9094
96	Structural brick	Brick	85,000	104,500	0.8134
97	Brick and shapes	Brick	216,418	292,000	0.7412
98	Brick	Brick	98,858	243,398	1.0000
99	Structural brick	Brick	99,573	99,573	1.0000
100	Brick	Brick	54,309	105,120	0.5166
101	Brick	Brick	186,268	360,000	0.7760
102	Brick	Brick	76,937	133,152	0.5778
103	Brick	Brick	198,592	275,940	0.7197
104	Structural brick	Brick	25,651	32,000	0.8016
105	Vitrified clay pipe flue lining	Structural clay products	30,000	40,000	0.7500
106	Sewer pipe	Structural clay products	18,000	25,000	0.7200
107	Sewer pipe	Structural clay products	15,000	25,000	0.6000
108	Sewer pipe flue liners	Structural clay products	18,000	25,000	0.7200
109	Flue liners and sewage pipe	Structural clay products	5,250	25,000	0.2100
110	Brick	Brick	22,500	27,000	0.8330
111	Brick	Brick	76,500	85,500	0.8947
112	Brick	Brick	288,000	290,250	0.9922
113	Structural brick	Brick	28,020	45,990	0.6093
114	Structural brick, facing brick	Brick	23,495	120,000	0.1958
115	Brick	Brick	27,200	34,000	0.8000
116	Fired structural brick	Brick	42,220	44,528	0.9482
117	Terra cotta	Structural clay products	150	300	0.5000
117	Fireplace throats	Structural clay products	100	200	0.5000
117	Pipe-flue-coping	Structural clay products	19,021	53,400	0.3562
118	Brick	Brick	113,319	113,319	1.0000
119	Brick	Brick	103,306	111,785	0.9241
120	Face brick	Brick	30,000	38,000	0.7895
121	Face brick	Brick	45,000	55,000	0.8182
122	Structural brick	Brick	41,695	105,000	0.3971

TABLE 3. (continued)

FACID	Product	Product (basic)	1996 Production	Capacity	1996 Utilization
123	Manganese compound brick	Brick	485	1,000	0.4850
123	Roof tile	Structural clay products	5,297	6,000	0.8828
123	Sewer pipe	Structural clay products	20,364	40,000	0.5091
123	Terra cotta	Structural clay products	918	1,100	0.8345
123	Chromium compound brick	Brick	131	1,000	0.1310
123	Red brick	Brick	4,400	8,000	0.5500
124	Brick	Brick	64,000	70,000	0.9143
125	Brick	Brick	81,000	85,750	0.9446
126	Brick	Brick	71,851	84,136	0.8540
127	Structural brick	Brick	52,366	90,000	0.5818
128	Brick	Brick	193,156	250,000	0.5788
129	Structural brick	Brick	98,735	139,750	0.7065
130	Brick	Brick	31,500	40,500	0.7778
131	Brick (fired weight)	Brick	122,491	135,289	0.9054
132	Face brick	Brick	107,847	133,361	0.8087
133	Brick	Brick	315,600	340,900	0.9258
134	King size clay brick	Brick	132,063	322,193	0.4099
135	Smooth brick	Brick	24,700	42,700	0.5785
135	Solid paving brick	Brick	24,700	42,700	0.5785
135	Sand Finish Brick	Brick	65,900	113,900	0.5786
135	Scratch/textured brick	Brick	49,400	85,400	0.5785
136	Brick	Brick	16,780	25,000	0.6712
137	Structural brick	Brick	313,202	572,904	0.6477
138	Brick	Brick	63,222	66,845	0.9458
139	Brick	Brick	31,000	50,000	0.6200
140	Face brick	Brick	59,932	83,250	0.7199
141	Structural clay tile or brick	Structural clay products	35,000	40,000	0.8750
142	Clay pipe flue liners wall coping	Structural clay products	43,480	60,000	0.7247
143	Structural brick	Brick	168,269	186,700	0.9013
144	Face brick	Brick	57,000	65,000	0.8769
145	Face brick	Brick	38,250	49,980	0.7653
146	Clay roofing tile	Structural clay products	63,692	110,316	0.5774
147	Brick	Brick	36,000	43,000	0.8372

TABLE 3. (continued)

FACID	Product	Product (basic)	1996 Production	Capacity	1996 Utilization
148	Brick	Brick	92,228	120,000	0.7690
149	Fired Tons-Brick	Brick	103,740	111,300	0.9321
150	Brick	Brick	146,000	195,000	0.7487
151	Brick (round plant)	Brick	105,642	110,000	0.9604
151	Brick (tunnel plant)	Brick	120,000	120,000	1.0000
152	Brick	Brick	47,250	136,000	0.8438
152	Reject crushing	Crushed reject brick	5,250		
153	Structural glazed brick	Brick	4,594	4,680	0.9816
153	Unglazed brick	Brick	2,014	2,052	0.9815
153	Structural glazed tile	Structural clay products	12,639	12,876	0.9816
153	Unglazed tile	Structural clay products	565	576	0.9809
153	Fire brick	Brick	5,986	6,098	0.9816
154	Brick	Brick			
155	Structural brick & brick equivalents	Brick	79,310	110,000	0.7210
156	Brick	Brick	1,500	13,140	0.1140
157	Brick	Brick	136,000	210,240	0.6834
158	Clay brick	Brick	42,471	54,032	0.7860
159	Brick	Brick	29,400	29,400	1.0000
160NR	Brick	Brick			
161NR	Brick	Brick	24,700	25,866	0.9550
162NR	Brick	Brick	56,721	57,000	0.9950
163NR	Brick	Brick	10,918	39,630	0.2750
164NR	Brick	Brick	79,000	95,834	0.8240
165NR	Brick	Brick	60,000	60,000	1.0000
166NR	Brick	Brick	78,316	166,440	0.4710
167NR	Brick	Brick	115,000	122,600	0.9380
168NR	Brick	Brick	126,000	154,000	0.8180
169NR	Brick	Brick	96,120	141,912	0.6770
170NR	Brick	Brick	216,320	294,336	0.7350
171NR	Brick	Brick	95,000	217,248	0.4370
172NR	Brick	Brick	171,990	271,560	0.6330
173NR	Brick	Brick	92,110	146,292	0.6300
174NR	Brick	Brick	19,500	40,950	0.4760
175NR	Brick	Brick			
176NR	Brick	Brick	90,000	90,000	1.0000

TABLE 3. (continued)

FACID	Product	Product (basic)	1996 Production	Capacity	1996 Utilization
177NR	Brick	Brick			
178NR	Brick	Brick			
179	Structural brick	Brick	11,100	15,000	0.7400
180NR	Brick	Brick			
181	Clay roof tile	Structural clay products			
182NR	Brick	Brick	14,800	25,536	0.5800
183	tile	Structural clay products	16	16	1.0000
184	wall tile	Structural clay products	120	120	1.0000
184	quarry floor tile	Structural clay products	70,642	87,600	0.8064
185	unglazed floor tile	Structural clay products	1,150	3,150	0.3651
185	Handmade glazed floor tile	Structural clay products	900	2,700	0.3333
185	glazed floor tile	Structural clay products	200	600	0.3333
186	ceramic floor brick	Structural clay products	5,950	11,000	0.5409
186	ceramic thin brick	Structural clay products	1,550	2,800	0.5536
186	ceramic floor tile	Structural clay products	14,350	26,200	0.5477
187	Glazed ceramic Tile	Structural clay products	4,444	10,903	0.4076
187	Unglazed Floor Tile	Structural clay products			
188	Quarry Tile	Structural clay products	46,000	62,300	0.7384
189	Quarry floor tile	Structural clay products	52,351	53,000	0.9878

TABLE 4. RAW MATERIALS AND ADDITIVES

FACID	Raw material	HAP status	Amount	Analysis available	Category
1	Shale	p	112706	Yes	Shale
2	hematite	n	46	No	Colorant
2	manganese oxide ore	h	2	No	HAP colorant
2	calcium lignosulfonate	p	67	No	Binder
2	Company Secret	h	89	No	HAP colorant
2	shale	p	29300	No	Shale
3	clay	p		No	Clay
3	barium carbonate	n		No	Colorant
4	clay	p	30000	No	Clay
4	barium carbonate	n	60	No	Colorant
5	Upper Blue Shale	p	59520	No	Shale
5	Manganese 325 Mesh	h	46	No	HAP colorant
5	Centerville Clay	p	34160	No	Clay
5	Yellow Shale	p	50510	No	Shale
5	Lower Blue Shale	p	20030	No	Shale
5	Hallmark Fireclay	p	26180	No	Clay
5	Calcium Lignosulfonate	p	51	No	Binder
6	Hallmark-Lehigh 1 fireclay (wet weight)	p	41290	No	Clay
6	Cordova Clay-Beaird (wet weight)	p	680	No	Clay
6	Screw (Kaolin) (wet weight)	p	76	No	Clay
6	Upper blue shale (wet weight)	p	58870	No	Shale
6	Centerville Fireclay (wet weight)	p	14060	No	Clay
6	Lignosol AM (wet weight)	p	17	No	Binder
6	Calcium Lignosulfonate (additiveA) Wet weight)	p	30	No	Binder
6	Lower Blue shale (wet weight)	p	56320	No	Shale
6	Yellow shale (wet weight)	p	35070	No	Shale
7	clay	p	85000	No	Clay
7	sawdust	p	3600	No	Filler
7	manganese	h	50	No	HAP colorant
8	dal clay tile waste material	p	4000	No	Clay
8	shale	p	17000	No	Shale
8	clay lock insulator waste material	p	3000	No	Clay
8	barium carbonate	n	9.8	No	Colorant
8	manganese	h	6.7	No	HAP colorant
10	Red Sand (wet weight)	p	70	No	Sand

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
10	Sand (wet weight)	p	9300	No	Sand
10	clay (mostly from stockpile #2)(wet	weight	p	122000	Noclay
10	calcium lignosulfonate (additive A)	p		No	Binder
11	Kaolin (wet weight	p	24000	No	Clay
11	shale (wet weight)	p	95000	No	Shale
12	manganese dioxide	h	300	No	HAP colorant
12	clay	p	53000	No	Clay
12	sawdust	p	4000	No	Filler
12	grog (crushed recycled brick)	n	5300	No	Grog
12	ball clay	p	60000	No	Clay
13	Barium Carbonate (dry weight)	n	164	No	Colorant
13	Borders Bottom Clay (wet weight)	p	4200	No	Clay
13	Manganese dioxide	h	92	No	HAP colorant
13	Kangerga Clay (wet weight)	p	26000	No	Clay
13	Ross Clay (wet weight)	p	42000	No	Clay
13	Bynum Clay (wet Weight)	p	44000	No	Clay
13	Scarbough Clay (wet weight)	p	5000	No	Clay
13	Kangerga White Sand Clay (wet weight)	p	6000	No	Clay
13	Hedge Clay (wet weight)	p	19000	No	Clay
13	Lignosulfonate	p	515	No	Binder
13	Grog (dry weight)	n	11000	No	Grog
14	Manganese dioxide	h	88	No	HAP colorant
14	Iron chromite	h	23	No	HAP colorant
14	Shale/Clay	p	29000	No	Clay/shale
14	Barium carbonate	n	11	No	Colorant
15	shale/clay	p	26600	No	Clay/shale
15	manganese dioxide	h	44	No	HAP colorant
15	barium carbonate	n	62	No	Colorant
16	soda ash	n	129	No	Colorant
16	manganese compounds	h	0.5	No	HAP colorant
16	shale	p	24063.5	No	Shale
16	schist	p	24063.5	No	Schist
17	soda ash	n	236	No	Colorant
17	shale	p	53660	No	Shale
17	manganese compounds	h	21.5	No	HAP colorant

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
17	schist	p	53660	No	Schist
18	clay	p	72916.77	No	Clay
18	Barium carbonate	n	161.425	No	Colorant
18	grog	n	3038	No	Grog
19	iron oxide	n	52	No	Colorant
19	air float kaolin	p	7500	No	Clay
19	dolomite	n	265	No	Colorant
19	pyrophyllite SiO2 Andalusite	p	300	No	Raw ore
19	red clay	p	260000	No	Clay
19	redart clay	p	271	No	Clay
19	crushed granite	n	9884	No	Additive
19	sand	n	1300	No	Sand
19	feldspar	p	64	No	Additive
19	bond clay	p	175	No	Clay
19	k/t ball clay	p	95	No	Clay
19	pyrophyllite sericite andalusite	p	35	No	Raw ore
19	ferrous sulfate	n	8	No	Colorant
20	extrusion lubricants	p	49	No	Lubricant
20	additive-a clay conditioner (lignosulfonate)	p	62.5	No	Binder
20	barium carbonate	n	75	No	Colorant
20	manganese oxide	h	70	No	HAP colorant
20	iron oxide	n	25	No	Colorant
20	common clay (various types)	p	56000	No	Clay
21	iron oxide	n	38	No	Colorant
21	calcium lignosulfonate	p	68	No	Binder
21	manganese dioxide	h	8	No	HAP colorant
21	clay	p	7739	No	Clay
21	barium carbonate	n	18	No	Colorant
22	manganese dioxide	h		No	HAP colorant
22	clay	p	73000	No	Clay
23	crushed brick (grog)	n	13035	No	Grog
23	calcium lignosulfonate	p	700	No	Binder
23	barium carbonate	n	87	No	Colorant
23	chromite	h	167	No	HAP colorant
23	manganese dioxide	h	131	No	HAP colorant

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
23	kaolinite clay	p	86798	No	Clay
24	manganese dioxide	h	66.56	No	HAP colorant
24	aluminum	n	6.44	No	Additive
24	barium carbonate	n	22	No	Colorant
24	cobalt oxide	h	0.91	No	HAP colorant
24	iron chromite	h	43	No	HAP colorant
24	shale	p	7330	No	Shale
24	ball clay	p	155	No	Clay
24	feldspar	p	366	No	Additive
24	kaolin	p	2308	No	Clay
24	fireclay	n	3630	No	Clay
24	alluvial clay	p	1409	No	Clay
25	clay	p	54407	No	Clay
25	manganese dioxide	h	245	No	HAP colorant
25	shale	p	163221	No	Shale
26	shale	p	55291	No	Shale
26	manganese dioxide	h	20	No	HAP colorant
26	clay	p	27645	No	Clay
27	shale	p	29104	No	Shale
27	clay	p	47486	No	Clay
27	manganese dioxide	h	144	No	HAP colorant
28	clay	p	25857	No	Clay
28	manganese dioxide	h	43.59	No	HAP colorant
28	shale	p	42745	No	Shale
31	shale	p		No	Shale
31	kaolin	p		No	Clay
31	manganese dioxide	h		No	HAP colorant
32	shale	p		No	Shale
32	manganese dioxide	h		No	HAP colorant
32	kaolin	p		No	Clay
33	shale	p	19739	No	Shale
33	ashes	n	696	No	Cement
33	barium carbonate	n	6.6	No	Colorant
33	manganese	h	9.3	No	HAP colorant
33	clay	p	2389	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
34	shale	p	11382	No	Shale
34	clay	p	72001	No	Clay
35	shale	p	14588	No	Shale
35	sand	n	7294	No	Sand
35	clay	p	124003	No	Clay
35	extrusion oil	p	18.7	No	Lubricant
36	extrusion oil	p	11.2	No	Lubricant
36	sand	n	8228	No	Sand
36	clay	p	74053	No	Clay
37	calcium lignosulfonate	p	96	No	Binder
37	sawdust	p	2562	No	Filler
37	water	n	160	No	Water
37	clay	p	61228	No	Clay
38	galisteo clay	p	5700	No	Clay
38	scoria (lava rock)	n	1630	No	Additive
38	hattie clay	p	7200	No	Clay
39	calcium lignosulonate	p	168.6	No	Binder
39	manganese dioxide	h	43.4	No	HAP colorant
39	clay	p	25316	No	Clay
39	iron oxide	n	98.6	No	Colorant
40	red iron oxide	n	94	No	Colorant
40	sand	n		No	Sand
40	red clay, ball clay	p	57309	No	Clay
40	manganese dioxide	h	16	No	HAP colorant
40	umber	p	350	No	Colorant
40	sawdust	p		No	Filler
41	fireclay	p	56394	No	Clay
41	ochre	n	245	No	Colorant
41	manganese dioxide	h	53	No	HAP colorant
41	calcium lignosulfonate and proprietary ingredients	p	532	No	Binder
41	shale	p	48330	No	Shale
41	sand	n	6671	No	Sand
41	limestone	p	4630	No	Colorant
41	diesel oil (extrusion lubricant)	p	0.75	No	Lubricant
41	sugar	p	23	No	Flashing

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
41	iron chromite	h	612	No	HAP colorant
41	synthetic red iron oxide	n	18	No	Colorant
41	hydrated lime	n	1.5	No	Colorant
42	shale	p	30000	No	Shale
42	manganese dioxide	h	42.25	No	HAP colorant
43	sodium silicate	n	248.1	No	Cement
43	fuel contaminated soils	p	1627.45	No	Contaminated soil
43	nash brick shale/clay	p	49809	No	Clay/shale
44	shale/clay	p	20268	No	Clay/shale
44	river sand	n	2160	No	Sand
45	manganese dioxide	h	56	No	HAP colorant
45	barium carbonate	n	15	No	Colorant
45	clay and shale mixture	p	46581	Yes	Clay/shale
45	epson salts	n	6	No	Colorant
45	extrusion oil	p	6.55	No	Lubricant
46	clay	p	42721	No	Clay
46	shale	p	50150	No	Shale
46	soda ash	n	154	No	Colorant
46	manganese	h	37	No	HAP colorant
47	manganese dioxide	h	40	No	HAP colorant
47	shales	p	32240	No	Shale
47	iron chromite	h	60	No	HAP colorant
47	Clays	p	22160	No	Clay
48	magnesium sulfate	n	0.38	No	Colorant
48	Triassic Shale	p	72574	No	Shale
48	hydrous aluminum silicate	p	5	No	Clay
48	copper granules	n	6.5	No	Colorant
48	sodium carbonate	n	3	No	Colorant
48	crushed glass	n	3	No	Grog
48	calcium lignosulfonate	p	284	No	Binder
48	aluminum silicates	p	103.5	No	Clay
48	limestone	p	8.5	No	Colorant
49	copper granules	n	1.5	No	Colorant
49	sodium carbonate	n	9	No	Colorant
49	hydrous aluminum silicate	p	15	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
49	aluminum silicates	p	310.5	No	Clay
49	crushed glass	n	9	No	Grog
49	triassic shale	p	197542	No	Shale
49	calcined aluminum silicate clay, feldspar, quartz	n	8	No	Additive
49	magnesium sulfate	n	1.125	No	Colorant
49	limestone	p	25.5	No	Colorant
49	calcium lignosulfonate	p	455.4	No	Binder
50	chromite	h		No	HAP colorant
50	Local clay/shale	p	15643	No	Clay/shale
50	manganese oxide	h		No	HAP colorant
51	kaolin (wet weight)	p	5400	No	Clay
51	black shale (wet weight)	p	1600	No	Shale
51	red shale (wet weight)	p	100000	No	Shale
51	red clay (wet weight)	p	100000	No	Clay
52	extrusion oil	p	16	No	Lubricant
52	schist	p	121600	No	Schist
52	incinerated sludge ash	n	3634	No	Cement
52	shale	p	61700	No	Shale
53	shale	p	51000	No	Shale
53	incinerated sludge ash	n	7235	No	Cement
53	extrusion oil	p	80.2	No	Lubricant
53	schist	p	108000	No	Schist
54	shale	p	195601	No	Shale
54	soda ash	n	531	No	Colorant
54	extrusion oil	p	134	No	Lubricant
55	extrusion oil	p	16	No	Lubricant
55	shale	p	111388	No	Shale
56	clay	p	25935	No	Clay
56	shale	p	11115	No	Shale
56	brick batts	n	1145	No	Grog
56	extrusion oil	p	17.825	No	Lubricant
57	Soda Ash	n	228	No	Colorant
57	extrusion oil	p	62.4	No	Lubricant
57	Shale	p	109258	No	Shale
58	fire clay	p	8898	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
58	shale	p	156462	Yes	Shale
58	sand	n	906	No	Sand
58	extrusion oil	p	14.1	No	Lubricant
59	shale	p	154430	No	Shale
59	soda ash	n	120	No	Colorant
59	extrusion oil	p	18.6	No	Lubricant
60	extrusion oil	p	57.9	No	Lubricant
60	soda ash	n	312	No	Colorant
60	shale	p	145546	No	Shale
61	extrusion oil	p	6.7	No	Lubricant
61	soda ash	n	206	No	Colorant
61	shale	p	137926	No	Shale
62	shale	p	95167	No	Shale
62	soda ash	n	125	No	Colorant
62	extrusion oil	p	29	No	Lubricant
63	clay	p	32099	No	Clay
63	barium carbonate	n	76	No	Colorant
63	manganese ore	h	62	No	HAP colorant
63	chromite	h	32	No	HAP colorant
63	calcium lignosulfonate	p	84	No	Binder
64	martinsburg shale	p	49781	No	Shale
64	water	n	11062	No	Water
65	clay	p	9000	No	Clay
65	soda ash (sodium carbonate)	n	22	No	Colorant
65	JIP (calcium sulfate)	n	44	No	Colorant
65	manganese dioxide	h	112	No	HAP colorant
65	shale	p	81000	No	Shale
66	shale	p	18619	Yes	Shale
66	fireclay	p	4143	Yes	Clay
66	clay	p	37238	No	Clay
66	chromite	h	11	No	HAP colorant
66	manganese	h	55	No	HAP colorant
66	calcium lignosulfonate	p	343.5	No	Binder
67	clay	p	61000	No	Clay
68	clay	p	44150	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
68	sand	n	1500	No	Sand
69	clay	p	54000	No	Clay
69	sand	n	3000	No	Sand
70	clay	p	135000	No	Clay
70	recycled lime	p		No	Colorant
71	Barium carbonate	n	38.4	No	Colorant
71	Pleasant View clay	p	107	No	Clay
71	Wyoming clay	p	5553	No	Clay
71	Clinton clay	p	17145	No	Clay
71	manganese	h	48	No	HAP colorant
71	Henefer clay	p	7025	No	Clay
72	shale (wet weight)	p	128600	No	Shale
72	Manganese (dry weight)	h	23	No	HAP colorant
72	Thomas clay (wet weight)	p	64120	No	Clay
72	Panther Creek clay (wet weight)	p	128900	No	Clay
72	lignosulfonate (dry weight)	n	640	No	Binder
73	calcium lignosulfonate	p	400	No	Binder
73	rome shale (wet weight)	p	171000	No	Shale
73	altizer schist (wet weight)	p	84900	No	Schist
73	manganese 325 mesh (dry weight)	h	7	No	HAP colorant
74	masonry sand (wet weight)	n	5970	No	Sand
74	local alluvial clay (wet weight)	p	130200	No	Clay
75	clay	p	42585	No	Clay
75	donnafil-granit fines	n	1125	No	Additive
75	light weight aggregate	n	1744	No	Additive
75	manganese dioxide	h	36	No	HAP colorant
75	calcium lignosulfonate	p	213	No	Binder
75	sawdust	p	77	No	Filler
76	calcium lignosulfonate	p	108.52	No	Binder
76	clay	p	24000	No	Clay
76	epsom salt	n	29.17	No	Colorant
76	barium carbonate	n	2.45	No	Colorant
77	clay	p	49000	No	Clay
78	shale	p	37800	No	Shale
78	clay	p	151200	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
79	brick white	p	15	No	Colorant
79	manganese ferrite	h	0.25	No	HAP colorant
79	clay	p	14702	No	Clay
79	clay and sand	p	9	No	Clay
80	special colorant (manganese dioxide, iron oxide)	p	63	No	Colorant
80	iron chromite	h	22	No	HAP colorant
80	barium carbonate	n	36	No	Colorant
80	manganese dioxide	h	45	No	HAP colorant
80	shale	p	6280	No	Shale
80	clay	p	32725	No	Clay
81	hallmark fire clay	p	3750	No	Clay
81	clay	p	197000	No	Clay
81	rome shale	p	27200	No	Shale
81	mary lee grace chapel clay	p	1000	No	Clay
81	redart clay	p	23.13	No	Clay
81	grog	n	10.8	No	Grog
81	lignosol	p	260	No	Binder
82	blue shale clay (wet weight)	p	78007	No	Clay/shale
82	barium carbonate (dry weight)	n	33.85	No	Colorant
82	P+K fire clay (wet weight)	p	18393	No	Clay
82	porter fire clay (wet weight)	p	13343	No	Clay
82	yellow shale clay (wet weight)	p	49736	No	Clay/shale
83	kaolin	p	25484	No	Clay
83	grog	n	651	No	Grog
83	ball clay	p	4723	No	Clay
83	sand	n	728	No	Sand
83	marble dust	n	547	No	Colorant
83	shale	p	2017	No	Shale
83	manganese dioxide	h	2272	No	HAP colorant
84	clay	p	19250	No	Clay
84	petroleum contaminated soil	p	5000	No	Contaminated soil
84	shale	p	52750	No	Shale
85	shale	p	50000	No	Shale
85	iron ore tailings	p	7350	No	Colorant
85	clay	p	16500	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
85	extrusion oil	p	10.4	No	Lubricant
87	fireclays	p	34732	No	Clay
87	common clays	p	21097	No	Clay
87	sand	n	1448	No	Sand
87	iron chromite	h	348	No	HAP colorant
87	iron oxides	n	100	No	Colorant
87	grog	n	8228	No	Grog
87	manganese dioxide	h	110	No	HAP colorant
88	ball clay	p	5.5	No	Clay
88	dextrose	p	7	No	Flashing
88	grog	n	6520	No	Grog
88	iron chromite	h	2	No	HAP colorant
88	common clays	p	57940	No	Clay
88	manganese dioxide	h	21	No	HAP colorant
88	kaolin clay Purchased	p	14	No	Clay
88	barium carbonate	n	196	No	Colorant
88	iron oxides	n	5	No	Colorant
88	red clays purchased	p	18	Yes	Clay
88	bentonite	p	1	No	Clay
89	sand	n	32	No	Sand
89	iron oxide	n	1.5	No	Colorant
89	fireclay	p	648	No	Clay
89	lignin	p	33	No	Binder
89	shale	p	5919	No	Shale
90	clay	p	69000	No	Clay
90	calcium lignosulfonate	p	465	No	Binder
90	frit	n	0.58	No	Colorant
90	rouge	n	244	No	Colorant
90	manganese dioxide	h	120	No	HAP colorant
90	barium carbonate	n	7.25	No	Colorant
91	clay	p	36620	Yes	Clay
91	sand	n		No	Sand
91	barium carbonate	n	25.2	No	Colorant
91	red iron oxide	n	50.4	No	Colorant
92	clay	p	33500	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
92	manganese	h		No	HAP colorant
93	manganese	h		No	HAP colorant
93	clay	p	34800	No	Clay
94	clay	p	29500	No	Clay
94	manganese	h		No	HAP colorant
95	manganese	h		No	HAP colorant
95	clay	p	136400	No	Clay
96	manganese	h		No	HAP colorant
96	clay	p	85000	No	Clay
97	manganese	h		No	HAP colorant
97	clay	p	216400	No	Clay
97	chromite	h		No	HAP colorant
98	clay	p	98900	No	Clay
98	manganese	h		No	HAP colorant
98	chromite	h		No	HAP colorant
99	clay	p	99500	No	Clay
99	manganese	h		No	HAP colorant
100	petroleum contaminated soils	p	6407	No	Contaminated soil
100	shale	p	47902	No	Shale
101	petroleum contaminated soils	p	32350	No	Contaminated soil
101	raw materials (clay, silt, shale, etc.)	p	153918	No	Clay/shale
102	raw materials (clay, shale, silt, etc.)	p	72246	No	Clay/shale
102	petroleum contaminated soils	p	4691	No	Contaminated soil
103	petroleum contaminated soil	p	0	No	Contaminated soil
103	raw materials (clay, shale, silt, etc.)	p	198592	No	Clay/shale
104	quarry clay	p	25651	No	Clay
105	clay	p	30000	No	Clay
106	clay	p	18000	No	Clay
106	barium carbonate	n	40.5	No	Colorant
107	clay	p	15000	No	Clay
107	barium carbonate	n	34	No	Colorant
108	barium carbonate	n	40.5	No	Colorant
108	clay	p	18000	No	Clay
109	barium carbonate	n	12	No	Colorant
109	clay	p	5250	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
110	manganese compound	h	112	No	HAP colorant
110	#5 A Shale	p	23095	No	Shale
111	manganese compound	h	302	No	HAP colorant
111	#4 shale	p	17057	Yes	Shale
111	#4 clay	p	39595	No	Clay
111	#3A shale	p	27752	Yes	Shale
112	#3A shale	p	20944	Yes	Shale
112	manganese compounds	h	997	No	HAP colorant
112	#4 shale	p	127958	Yes	Shale
112	#4 clay	p	172399	Yes	Clay
112	#5 clay	p	20572	Yes	Clay
112	chromium compound	h	593	No	HAP colorant
113	clay and sand	n	17	No	Clay
113	clay	p	27983	No	Clay
113	brickwhite	p	20	No	Colorant
114	grog	n	2426	No	Grog
114	sand	n	0.48	No	Sand
114	soda ash	n	5	No	Colorant
114	clay native	p	21000	No	Clay
114	limestone flour	p	36.24	No	Colorant
114	manganese dioxide	h	21.6	No	HAP colorant
115	clay	p	34400	No	Clay
116	pyrolusite, manganese ore	h	82.25	No	HAP colorant
116	iron chromite	h	54.98	No	HAP colorant
116	calcium lignosulfonate	p	125.65	No	Binder
116	clay	p	42220	No	Clay
116	barium carbonate	n	49.93	No	Colorant
117	fireclay	p	7820	No	Clay
117	grog	n	2232	No	Grog
118	Lignosulfonate	p	159	No	Binder
118	Raw common clay	p	130308	No	Clay
118	grog (recycled crushed brick)	n	12238	No	Grog
118	barium carbonate (microflo)	n	134	No	Colorant
119	ball clay	p	29224	No	Clay
119	manganese compounds	h	115	No	HAP colorant

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
119	loam clay	p	44896	No	Clay
119	chromium compounds	h	105	No	HAP colorant
119	sand	n	7989	No	Sand
119	grog	n	7981	No	Grog
120	manganese dioxide	h	2	No	HAP colorant
120	clay	p	30000	No	Clay
120	vermiculite	n	1	No	Colorant
120	pyrotrol, pyrophyllite	p	0.25	No	Raw ore
121	clay/shale	p	45000	No	Clay/shale
121	epsom salt	n	0.525	No	Colorant
121	iron oxide	n	14400	No	Colorant
122	courtland buff clay	p	11461	No	Clay
122	amanole 5 manganese dioxide	h	312	No	HAP colorant
122	micro flo barium carbonate	n	39	No	Colorant
122	die lubricant	p	15.45	No	Lubricant
122	courtland red clay	p	7779	No	Clay
122	springfield clay/shale	p	12867	No	Clay/shale
122	sleepy eye clay T	p	11970	No	Clay
122	sleepy eye clay kaolin B	p	8523	No	Clay
123	colfax shale	p	3568	No	Shale
123	clay	p	33124	No	Clay
123	terra cotta scrap	n	823	No	Grog
123	sewer pipe scrap	n	4310	No	Grog
123	custer spar	p	169.7	No	Colorant
123	talc	p	10.1	No	Raw ore
123	ione sand	n	281	No	Sand
123	lignosite	p	102	No	Binder
123	manganese dioxide	h	4.85	No	HAP colorant
123	iron chromite	h	7.85	No	HAP colorant
123	sodium carbonate	n	19.4	No	Colorant
123	barium carbonate	n	68	No	Colorant
124	shale	p	64000	No	Shale
125	manganese	h		No	HAP colorant
125	clay	p	81000	No	Clay
126	calcuim lignosulfonate	p		No	Binder

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
126	clay	p	71800	No	Clay
126	manganese	h		No	HAP colorant
127	clay	p	52000	No	Clay
127	manganese	h		No	HAP colorant
128	manganese	h		No	HAP colorant
128	clay	p	278000	No	Clay
129	clay	p	98700	No	Clay
129	manganese	h		No	HAP colorant
130	#4 clay	p	19484	Yes	Clay
130	#3a shale	p	2794	Yes	Shale
130	#4 shale	p	15898	Yes	Shale
130	manganese compound	h	182	No	HAP colorant
131	lignosol (additive a)	p	198	No	Binder
131	clay	p	128000	No	Clay
131	hallmark fire clay	p	894	No	Clay
131	kaolin eufaula	p	227	No	Clay
131	rome shale	p	11475	No	Shale
132	hallmark fireclay	p	1200	No	Clay
132	clay	p	109300	No	Clay
132	kaolin	p	45	No	Clay
132	rome shale	p	13390	No	Shale
132	manganese	h	7	No	HAP colorant
132	calcium lignosolfulnate	p	106	No	Binder
132	natural iron oxide	n	69	No	Colorant
133	sawdust	p	10000	No	Filler
133	merry clay (wet weight)	p	354300	No	Clay
133	manganese	h		No	HAP colorant
133	fines	p		No	Additive
133	bond kaolin (wet weight)	p	9600	No	Clay
133	cordova clay (wet weight)	p	9700	No	Clay
133	marble dust	n		No	Colorant
133	albion kaolin (wet weight)	p	13300	No	Clay
133	shale (wet weight)	p	19100	No	Shale
135	pit clay	p	140584	No	Clay
135	ceramic product	n	1318	No	Grog

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
135	contaminated clay	p	14117	No	Clay
135	garnet	n	6588	No	Colorant
135	bonding clay	p	2745	No	Clay
135	firebrick mortar	n	659	No	Cement
136	limestone	p	75.2	No	Colorant
136	iron oxide	n	1	No	Colorant
136	manganese dioxide	h	42	No	HAP colorant
136	sand shale	p	1160	No	Shale
136	clay	p	15497	No	Clay
136	rutile	p	1.5	No	Raw ore
137	calcium lignosulfonate	p	143.5	No	Binder
137	iron oxide	n	11.2	No	Colorant
137	manganese dioxide	h	22.8	No	HAP colorant
137	shale	p	313202	No	Shale
138	iron oxide	n	110	No	Colorant
138	manganese	h	35	No	HAP colorant
138	clays	p	76000	No	Clay
139	manganese oxide	h	12	No	HAP colorant
139	barium carbonate	n	20	No	Colorant
139	clay & shale	p	31000	No	Clay/shale
140	barium carbonate	n	61	No	Colorant
140	ochre	n	179	No	Colorant
140	red art clay	p	1.7	No	Clay
140	MnOx	h	270	No	HAP colorant
140	goldart clay	p	0.5	No	Clay
140	yellow iron oxide	n	0.13	No	Colorant
140	regency blend oxide	n	1	No	Colorant
140	red iron oxide	n	9.28	No	Colorant
140	synthetic red iron oxide	n	0.013	No	Colorant
140	raw material clay	p	62702	No	Clay
140	umber	p	0.95	No	Colorant
141	clay	p	41000	Yes	Clay
141	shale	p	5000	Yes	Shale
141	barium carbonate	n	130	No	Colorant
141	grog & feedstock (recycled raw materials	n	4000	No	Grog

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
142	clay	p	44000	No	Clay
143	manganese	h		No	HAP colorant
143	iron chromate	h		No	HAP colorant
143	clay	p	168000	No	Clay
144	bottom ash	n	2150	No	Cement
144	clay	p	90000	No	Clay
144	barium carbonate	n	55	No	Colorant
144	iron oxide	n	1	No	Colorant
144	sand	n	30	No	Sand
144	manganese dioxide	h	1.5	No	HAP colorant
144	grog	n	18000	No	Grog
145	white plastic clay	p	9843	No	Clay
145	dark plastic clay	p	9843	No	Clay
145	white sand clay	p	19687	No	Clay
145	manganese dioxide	h	96	No	HAP colorant
145	chromium oxide	h	14	No	HAP colorant
146	L.L. Sand grog wet wt	n	4539	No	Grog
146	ac clay wet wt	p	24306	Yes	Clay
146	B.M.C. clay wet wt.	p	1731	Yes	Clay
146	C.C. clay	p	216	Yes	Clay
146	K.F./Oakdale clay wet wt.	p	1831	Yes	Clay
146	acton grog, wet wt.	n	6370	Yes	Grog
146	M.C. clay wet wt	p	15750	Yes	Clay
146	N. Bond Noble clay wet wt.	p	19383	Yes	Clay
146	olive old crow clay wet wt	p	1433	Yes	Clay
146	Olancha pumas grog wet wt.	n	2966	Yes	Grog
146	P.C.C. clay wet wt	p	345	Yes	Clay
146	T.C. Clay wet wt	p	2428	Yes	Clay
146	3M dust wet wt	p	2968	Yes	Additive
146	manganese 325 mesh	h	21	No	HAP colorant
146	barium carbonate	n	17	No	Colorant
147	manganese ore	h	75	No	HAP colorant
147	iron chromite	h	15	No	HAP colorant
147	barium carbonate	n	40	No	Colorant
147	feldspar	p		No	Additive

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
147	clay	p	42000	No	Clay
149	shale	p	103740	No	Shale
149	manganese	h	0.25	No	HAP colorant
149	ammonium lignosulfonate	p		No	Binder
150	Clay	p	146000	No	Clay
151	manganese	h		No	HAP colorant
151	clay	p	225642	No	Clay
152	iron chromite	h		No	HAP colorant
152	manganese dioxide	h		No	HAP colorant
152	Fe HO2 548 ochre	n		No	Colorant
152	Quartz 548 ochre	n		No	Colorant
152	manganese dioxide 548 ochre	h		No	HAP colorant
153	fire clay	p	18785	No	Clay
153	red burning surface clay	p	3960	No	Clay
153	sand	n	1390	No	Sand
153	feldspar	p	1383	No	Additive
153	crushed, fired reject brick and tile	n	667	No	Grog
153	calcined fire clay	n	2954	No	Additive
153	recycled glaze wash	p		No	Colorant
153	barium carbonate	n	51	No	Colorant
153	crushed, dry reject brick and tile	p		No	Grog
155	additive A (liquid lignin sulfonate)	p	10	No	Binder
155	MnO2 (manganese dioxide)	h	200	No	HAP colorant
155	BaCO3 (barium carbonate)	n	130	No	Colorant
155	FeCr2O3 (iron chromite)	h	63	No	HAP colorant
155	clay	p	99498	No	Clay
157	sand	n	218000	No	Sand
157	chromite compounds	h	45	No	HAP colorant
157	clay	p	218000	No	Clay
157	manganese compounds	h	65	No	HAP colorant
157	additive	p	75	No	Binder
158	barium carbonate-body additive/surface colorant	n	22.75	No	Colorant
158	manganese dioxide-body additive/surface colorant	h	56.95	No	HAP colorant
158	Calcium lignosulfonate	p	164	No	Binder

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
158	silt-clay raw material	p	2668	No	Clay
158	burgundy-clay raw material	p	16563	No	Clay
158	Chromite-body additive/surface colorant	h	13.25	No	HAP colorant
158	rose-clay raw material	p	1487	No	Clay
158	ivory-clay raw material	p	3436	No	Clay
158	buff-clay raw material	p	11315	No	Clay
158	terracotta-clay raw material	p	7002	No	Clay
158	silica sand-as setting sand/surface colorant	n	24.6	No	Sand
158	5151 stain-surface colorant	p	0.5	No	Colorant
158	EPK kaolin-surface colorant	p	0.4	No	Colorant
159	Yellow Shale	p		No	Shale
159	Blue Shale	p		No	Shale
179	calcium lignosulfonate	p	22.6	No	Binder
179	clay	p	11100	No	Clay
179	manganese dioxide	h	0.47	No	HAP colorant
183	clay	p	16	No	Clay
184	shale	p	24018	No	Shale
184	iron chromite	h	636	No	HAP colorant
184	fire clay	p	45779	No	Clay
184	manganese dioxide	h	212	No	HAP colorant
185	fire clay	p	460	No	Clay
185	manganese dioxide	h	0.046	No	HAP colorant
185	shale	p	1790	No	Shale
186	fire clay	p	10409	No	Clay
186	manganese dioxide	h	66.3	No	HAP colorant
186	shale	p	11138.5	No	Shale
186	iron chromite ore	h	33.4	No	HAP colorant
186	cobalt oxide	h	1.6	No	HAP colorant
187	M&D Clay	p	201	No	Clay
187	Frit	N	347	No	Colorant
187	Manganese dioxide	H	107	No	HAP colorant
187	Barium Carbonate	N	7	No	Colorant
187	Shale	p	3486	No	Shale
188	Mary Lee Clay	p	23400	No	Clay
188	Fern Springs Clay	p	7400	No	Clay

TABLE 4. (continued)

FACID	Raw material	HAP status	Amount	Analysis available	Category
188	Shale	p	8000	No	Shale
188	Kaolin	p	6000	No	Clay
188	Iron Chromite	h	1000	No	HAP colorant
188	Manganese chloride	h	1.4	No	HAP colorant
188	cobalt chloride	h	1.225	No	HAP colorant
189	iron chromite	h	942	No	HAP colorant
189	cobalt oxide	h	246	No	HAP colorant
189	manganese dioxide	h	1864	No	HAP colorant
189	Cobalt Chloride	h	0.05	No	HAP colorant
189	manganese chloride	h	0.56	No	HAP colorant
189	shale/clay	p	48686	No	Clay/shale

TABLE 5. FLASHING SUBSTANCES

FACID	Substance	Amount	Units
2	Natural gas		
5	Natural gas		
7	Natural gas		
7	Natural gas		
8	Natural gas		
9	No.2 fuel oil		
10	Natural gas		
11	Natural gas		
12	Natural gas		
14	Natural gas		
15	Natural gas		
16	Natural gas		
17	Natural gas		
19	Natural gas		cubic feet
20	Natural gas		
22	Natural gas		
23	Natural gas		
24	Natural gas		
33	Coal and sawdust		
34	Natural gas		
35	Natural gas	15,391	mcf
36	Natural gas	2,737	mcf
38	Natural gas		
39	Natural gas		
40	Natural gas		
42	Natural gas		
43	Sawdust (fuel)		
44	Natural gas		
45	Natural gas		
51	Natural gas		
52	Natural gas		
53	Natural gas		
54	Coal		

TABLE 5. (continued)

FACID	Substance	Amount	Units
55	Natural gas		
56	Natural gas		
57	Natural gas		
58	Natural gas		
60	Natural gas		
61	Natural gas		
62	Natural gas		
63	Natural gas		
64	Natural gas		
65	Natural gas	2,400	mcf
66	Natural gas		
70	Natural gas		
72	Sawdust		NA
72	Natural gas		NA
73	Natural gas		
74	Natural gas		
75	Natural gas		
78	Natural gas		
79	Oil		
81	Natural gas		
81	Propane (back-up fuel)		
82	Natural gas		
84	Natural gas		
85	Natural gas		
87	Natural gas		
88	Natural gas		
89	No. 2 oil	4,000	gal
90	Natural gas		
92	Natural gas		
93	Natural gas		
94	Natural gas		
95	Natural gas		

TABLE 5. (continued)

FACID	Substance	Amount	Units
96	Natural gas		
97	Natural gas		
98	Natural gas		
99	Natural gas		
100	Sawdust in kilns 1 and 2		
101	Sawdust in kilns 1 and 2		
101	Gas in kiln 3 (for 1997)		
102	Sawdust in kilns 1 and 2		
103	Sawdust in kilns 3 - 8		
110	Natural gas		mcf
111	Gas		mcf
112	Zinc	12.6	tons
112	Gas		
112	Coal	354	tons
112	Manganese oxide	0.15	tons
113	Propane	236,344	gal
114	Natural gas		
116	Natural gas		
118	Natural gas		
119	Natural gas		
122	#2 fuel oil		
122	Natural gas		
124	Natural gas		
125	Natural gas		
126	Natural gas		
127	Natural gas		
128	Natural gas		
129	Natural gas		
130	Gas		mcf
130	Coal	63	tons
131	Natural gas		
131	Propane gas back up fuel		

TABLE 5. (continued)

FACID	Substance	Amount	Units
132	Natural gas		
132	Propane gas backup fuel		
133	Natural gas		
133	Sawdust		
134	Natural gas		
136	Coal		
137	Natural gas		
139	Natural gas		
140	Natural gas		
143	Natural gas		
146	Natural gas		
147	Natural gas		
148	Natural gas		
151	Natural gas		
154	Natural gas		
158	Natural gas		
159	Natural gas		
188	Cobalt chloride	1.225	tons
188	Manganese chloride	1.4	tons
189	Colbat chloride	0.05	tons
189	Manganese chloride	0.56	tons

TABLE 6. GLAZES AND COLORANTS

FACID	Type	Product	96con	At facility	Capacity	Utilization	ProdIDX
100	Colorant	Brick		No			100113
101	Colorant			No			101114
10	Coatings/colorants	Brick	2185	No			1015
102	Colorant	Brick		No			102116
103	Colorant	Brick		No			103117
104	Colorant	Brick	9	No	9	100.00%	104115
110	Sand coating			No			110118
11	Colorant/coating	Brick	1441	No			1116
112	Colorant	Brick		No			112119
112	Dark blue glaze	Brick	0.136	No			112120
112	Clear glaze	Brick	0.00181	No			112121
112	Red glaze	Brick	0.476	No			112122
112	Brown glaze	Brick	0.034	No			112123
112	Orange glaze	Brick	0.163	No			112124
112	Green glaze	Brick	0.19	No			112125
114	Surface colorants	Structural & facing brick	10	Yes			114126
115	Colorant	Colored	18	No	18	100.00%	115127
116	Colorant	Structural brick	0.3	No			116129
116	Colorant	Structural brick	0.3	No			116130
116	Colorant	Structural brick	0.7	No			116131
116	Yellow colorant	Structural brick	0.45	No			116132
116	Brown colorant	Structural brick	0.75	No			116133
117	Glazes	Structural clay products		No			117134
118	Colorants	Face brick	203	No			118135
121	Colorant	Face brick	1.5	No			121136
12	Colorant/coatings	Brick	180	No			1220
122	Black sand	Structural brick	35	Yes	500	7.00%	122137
123	Standard glaze	Structural wall tile	53.05	No	75	70.73%	123138
124	Colorant	Brick		No			124139
131	Colorant/coatings	Brick	179	No			131141
13	Colorant/coating	Brick	2000	No			1317
132	Coatings/colorant	Brick	957	No			132142
133	Colorant/coatings	Brick	2500	No			133143
135	Colorant	Brown sand finish brick	659	No	1139	57.86%	135144
137	Sand coatings	Brick		No			137145

TABLE 6. (continued)

FACID	Type	Product	96con	At facility	Capacity	Utilization	ProdIDX
137	Colorant/coating	Brick	19	No			137146
138	Coating	Brick	19	No			138160
139	Glaze	Brick	65	Yes	125	52.00%	139147
140	Colorant	Face brick	102.24	No			140148
141	Matt/gloss/ semigloss glaze	Structural tile, brick	940.14	Yes	1500	62.68%	141149
14	Coatings	Brick	1	Yes			1418
144	Colorant	Structural brick		No			144152
145	Colorant	Face brick colored	60	Yes	75	80.00%	145153
145	Colorant	Face brick colored	72	Yes	75	96.00%	145154
145	Colorant	Face brick colored	75	Yes	80	93.75%	145155
145	Colorant	Face brick colored	62	Yes	75	82.67%	145156
146	Colorants	Clay roofing tile	2.7	No	3.4	79.41%	146157
147	Colorants	Brick		No			147158
150	Colorant	Brick	155	Yes			150159
15	Coating	Brick	0.1	Yes			1519
153	Glaze	Structural glazed brick and tile	246.8	Yes	390	63.28%	153161
158	Colorant - BI	Brick		Yes	3		158162
158	Colorant - CG	Brick		Yes	1		158163
158	Colorant - AAM	Brick		Yes	1		158164
159	Colorant	Brick		No			159165
1	Colorant	Face brick	2210	Yes	4000	55.25%	18
181	Glaze	Roof tile		No			181166
19	Colorant	Brick	150	No			1921
23	White kaolin clay	Brick	1.9379	Yes	129	15022.48%	2322
23	Target slip	Brick	6.8064	Yes	929	0.75%	2323
23	Gray engobe	Brick	0.6804	Yes	929	0.11%	2324
23	Engobe S1-102	Brick	6.5555	Yes	929	0.75%	2325
23	Brickox	Brick	0.2889	No	13	0.00%	2326
23	White sand (21)	Brick	15.2848	Yes	1030	1.46%	2327
23	Black sand (15)	Brick	6.7063	Yes	257	2.72%	2329

TABLE 6. (continued)

FACID	Type	Product	96con	At facility	Capacity	Utilization	ProdIDX
23	Red sand GRM-1	Brick	12.9956	Yes	515	2.52%	2330
23	Rose sand GRM-2	Brick	9.7467	Yes	386	2.59%	2331
23	E01 White powder	Brick	1.7223	Yes	129	1.55%	2332
23	White SF-48	Brick	0.4187	Yes	59	0.00%	2334
23	Sante Fe blue	Brick	0.2662	Yes	118	0.00%	2335
23	Santa Fe gray	Brick	0.3401	Yes	118	0.00%	2336
23	Gray c-123-a	Brick	0.2295	Yes	118	0.00%	2338
23	Target slip	Tile	1.138	Yes	706	0.14%	2339
23	Brickox	Tile	0.9315	No	64	1.56%	2340
23	White sand (21)	Tile	37.3498	Yes	1150	3.22%	2341
23	Black sand (15)	Tile	26.7878	Yes	287	9.44%	2342
23	Red sand GRM-1	Tile	33.8214	Yes	575	5.91%	2343
23	Rose sand GRM-2	Tile	25.366	Yes	431	5.80%	2344
23	Glaze	Glazed tile	8.91	Yes	267	3.37%	2345
24	Engobe	Brick pavers	0.08	No			2437
25	Colorant	Brick		No			2533
26	Colorant			No			2646
27	Colorant	Brick		No			2747
28	Colorant	Brick		No			2848
2	Colorant	Brick		No			29
29	Colorant	Brick		No			2950
30	Colorant	Brick		No			3051
33	Colorant	Brick		Yes			3352
34	Surface colorant	Face brick	2.03	Yes			3453
35	Coatings	Brick		No			3554
7	Glaze	Face brick	4	Yes			3757
38	Colorant	Brick		No			3855
39	Colorant	Brick		No			3956
41	Slurry	Face brick	126.24	Yes	164	76.83%	4161
43	Dry sand mix	Face brick		Yes			4358
44	Colorant/texture	Brick	12.75	No			4459
45	Colorants dry coatings	Brick	43.27	Yes	338	12.72%	4560
46	Coating	Structural brick	702	Yes			4662
48	Zinc oxide	Structural brick	4.5	No	5.86	66.67%	4864
48	Manganese dioxide	Structural brick	5.63	No	7.24	85.71%	4865
48	Iron oxide	Structural brick	4.38	No	5.63	66.67%	4866

TABLE 6. (continued)

FACID	Type	Product	96con	At facility	Capacity	Utilization	ProdIDX
48	Manganese sulfate	Structural brick	2.75	No	3.54	75.00%	4867
49	Zinc oxide	Structural brick	13.5	No	18.4	77.78%	4968
49	Manganese dioxide coloran	Structural brick	16.9	No	23	73.91%	4969
49	Iron oxide colorant	Structural brick	13.125	No	17.9	72.22%	4970
49	Manganese sulfate colorant	Structural brick	8.25	No	11.25	72.73%	4971
5	Coatings/colorants	Brick	3340	No			511
51	Colorant/coating	Brick	4000	No			5172
52	Colorant	Face brick	4000	Yes	6000	66.67%	5273
53	Colorant	Face brick	1035	Yes	1500	69.00%	5374
54	Colorant	Face brick	1895	Yes	2500	75.80%	5475
55	Colorant	Face brick	1630	Yes	3500	46.57%	5576
56	Colorant	Face brick	210	Yes	500	42.00%	5678
57	Colorant	Face brick	1360	Yes	2000	68.00%	5777
58	Colorant	Face brick	1240	Yes	1500	82.67%	5879
59	Colorant	Face brick	1360	Yes	1600	85.00%	5980
60	Colorant	Face brick	2840	Yes	4000	71.00%	6081
6	Coatings/colorants	Brick	2086	No			612
61	Colorant	Face brick	2140	Yes	3500	61.14%	6182
62	Colorant	Face brick	840	Yes	2000	42.00%	6283
64	Surface colorant	Brick	3.39	No			6484
65	Colorant	Structural brick	44	No	50	88.00%	6585
65	Spinel colorant	Structural brick	2	No			6586
67	Colorant	Brick		No			67150
68	Colorant	Structural brick	1	No			6887
68	Colorant	Structural brick	1	No			6888
69	Colorant	Structural brick	1	No			6989
69	Colorant	Structural brick	1	No			6990
70	Colorant	Face brick		No			7091
7	Colorant/coatings	Brick	700	No			713
71	Colorant	Face brick	52	No			7192
72	Colorant/coating	Brick	3500	No			7293
73	Colorant/coatings	Brick	2080	No			7394
74	Colorants/coatings	Brick	800	No			7495
75	Colorant	Brick	3	Yes	5	60.00%	7596
75	Colorant	Brick	10	Yes	15	66.67%	7597

TABLE 6. (continued)

FACID	Type	Product	96con	At facility	Capacity	Utilization	ProdIDX
76	Colorant	Brick	0.42	No			7698
77	Colorant	Face brick		No			7799
78	Colorant	Brick	69	No			78100
81	Colorant/coatings	Brick	1982	No			81101
8	Colorant/coating	Brick	526	No			814
82	Coatings/colorants	Brick	349	No			82102
83	Colorant	Brick		No			83103
84	Colorant	Brick	24	Yes	28	85.71%	84104
85	Colorant	Face brick	715	Yes	1000	71.50%	85105
87	Colorant	Structural brick	82	Yes	105	78.10%	87106
88	Surface colorant	Structural & facing brick	2	Yes			88107
88	Surface colorant	Structural & facing brick	8	Yes			88108
88	Surface colorant	Structural & facing brick	5	Yes			88109
88	Surface colorant	Structural & facing brick	2	Yes			88110
88	Surface colorant	Structural & facing brick	5	Yes			88111
90	Colorant	Face brick	189.36	No			90112

TABLE 7. GLAZE INGREDIENTS

ProdIDX	Material	Low	High	Ave	HAP Status
100113	MnO4				H
100113	Chromite				H
101114	Manganese dioxide				H
101114	Frit				N
101114	Soda lime glass				N
1015	Ochre			9.85	P
1015	Calcium carbonate			234.17	P
1015	Mangnese dioxide			271.25	H
1015	Iron chromite ore			297	H
102116	Soda lime glass				N
102116	Manganese dioxide				H
102116	Frit				N
103117	Frit				P
103117	Manganese dioxide				H
104115	Iron oxide			9	N
110118	Manganese dioxide			0.135	H
1116	Manganese			6.9	H
1116	Ochre			13.8	P
112119	Slip clay			1.68	P
112119	Wax				P
112120	Lead			0.022	H
112120	Cadmium			0.003	H
112120	Cobalt			0.001	H
112121	Lead			0.000362	H
112122	Lead			0.076	H
112122	Cadmium			0.014	H
112122	Selenium			0.005	H
112123	Lead			0.004	H
112123	Cadmium			0.001	H
112123	Chromium compound			0.0007	H
112124	Lead			0.026	H
112124	Cadmium			0.00652	H
112124	Selenium			0.0016	H
112125	Lead			0.03	H
112125	Cadmium			0.006	H
112125	Chromium compound			0.002	H
112125	Cobalt			0.002	H
114126	Sodium hexameta phosphate			0.08	N

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
114126	Sodium calcium borate			0.29	N
114126	Manganese dioxide			0.71	H
114126	Iron chromite			0.05	H
114126	Bentonite			0.08	P
114126	Kaolin clays			1.62	P
114126	Red clays			2.8	P
115127	Rc-32 tennessee ball clay			2	P
115127	Barium carbonate			16	N
116129	Iron manganese oxide			0.3	H
116130	Manganese dioxide			0.3	H
116131	Iron chromite			0.7	H
116132	Antimony			0.054	H
116132	Nickel			0.023	H
116133	Iron chromite			0.23	H
117134	Frit clear			2.5	N
117134	Feldspar			0.013	P
117134	White china clay			0.415	P
117134	Stain 1396			0.016	P
117134	Wollastonite			0.108	N
117134	Chromium compounds			0.001	H
117134	Cobalt compounds			0.00055	H
117134	Cobalt nickel spinel				P
118135	Manganese dioxide			137.2	H
118135	Manganese tetroxide (colormax)			63.1	H
118135	Iron chromite			1	H
118135	Red iron oxide			1.25	N
121136	Manganese dioxide			0.825	H
1220	Zinc oxide			8.9	N
1220	Iron oxide red			3.4	N
1220	Manganese alumina pink carurdum			0.69	H
1220	Iron chromite			7.9	H
1220	Brikwhite			1.6	P
122137	Sand			34	N
122137	Amanora manganese dioxide			1	H
123138	Ball clay			14.2	P
123138	Flint			8.2	P
123138	Feldspar			18.2	P

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
123138	Superpax (zirconium silicate)			2.2	P
123138	Calcium carbonate			4	P
123138	Barium carbonate			2.1	N
123138	ZnO2			3.4	N
123138	Cobalt oxide			0.0035	H
123138	Cobalt carbonate			0.0075	H
123138	FeCrO4			0.099	H
123138	Manganese dioxide			0.23	H
123138	NiO			0.006	H
123138	Brown 608 (Cr,Ni,Sb)			0.1115	H
123138	Brown 1378 (Cr)			0.005	H
123138	Black K470 (Cr)			0.0025	H
123138	Black F3786 (Cr)			0.061	H
123138	Blue 4053 (Co)			0.0145	H
123138	Green 41708 (Co,Cr.)			0.107	H
123138	Green 1172 (Co,Cr)			0.0495	H
123138	Black 1117A (Cr)			0.0545	H
124139	Iron oxides				N
124139	Manganese dioxide				H
124139	Sand				N
131141	Zinc oxide			0.45	N
131141	Manganese dioxide			24.1	H
131141	Manganese sulphate			0.9	H
131141	Iron chromite			1.75	H
131141	Green chromium oxide			0.03	H
131141	Limestone			88.2	P
1317	Manganese sulfate			1.5	H
1317	Nepheline syenite			4.5	P
1317	Manganese dioxide			95.5	H
132142	Gleason ball clay			8.55	P
132142	Green chromium oxide			0.44	H
132142	Ochre			68.88	N
132142	Manganese dioxide			6.89	H
132142	Zinc oxide			7.3	N
133143	Manganese dioxide			10	H
133143	Ochre			0.7	N
133143	Chromium oxide green			0.2	H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
133143	Chromite			2	H
133143	Lime			37	N
133143	Blue stain			0.2	P
133143	Cobalt carbonate			0.3	H
133143	Pink stain			0.5	P
135144	Ball clay			494.25	P
135144	Manganese dioxide			32.95	H
137145	Umber			0.7	P
137145	Manganese dioxide			0.85	H
137145	Iron oxide			2.6	N
137145	Manganese dioxide			5.3	H
137145	Manganese sulfate			0.63	H
137145	Magnesium sulfate			0.05	N
137145	Calcium sulfate			0.008	N
137145	Water			0.07	N
138160	Manganese dioxide			2	H
138160	Yellow body stain			0.1	P
139147	Lime			65	N
140148	Vitgobe			0.38	P
140148	Brickwhite			72.38	N
140148	Ferroussulfate			15.13	N
140148	Titanium oxide			0.13	N
140148	Chromium oxide			0.9	H
140148	Kelsan			0.09	P
140148	Sand			2.25	N
140148	Kaolin			0.2	P
140148	Feldspar			0.88	P
141149	Lead alumina bisilicate			4.1	H
141149	Lead bisilicate (insoluble)			2.14	H
141149	Nickel ferrite brown spinnel			0.06	P
141149	Chrome alumina pink spinnel			0.14	H
141149	Iron cobalt chromite black spinnel			0.56	H
141149	Pigment			0.01	P
141149	Pigment			0.03	P
141149	Iron cobalt chromite black spinel			1.3	H
141149	Blue spersastain			0.06	P
141149	Blue spersastain			0.22	P

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
141149	Gray spersastain			0.55	P
141149	Cobalt chromite blue green spinel			1.07	H
141149	Clays			929.9	P
1418	Manganese dioxide			0.1	H
1418	Iron chromite			0.1	H
144152	Manganese dioxide				H
145153	White cedar heights, clays			54	P
145153	Frit			1.5	N
145153	Feldspar			1.5	P
145153	Chromite			3	H
145154	Red cedar heights clay			33.5	P
145154	Iron oxide			16.7	N
145154	Black sand			16.7	P
145154	Feldspar			3.3	P
145154	Frit			1.15	N
145155	White sand			61.4	N
145155	Masonry sand			10.2	N
145155	Manganese dioxide			3.4	H
145156	Whitesand			54.8	N
145156	Cobalt oxide			0.6	H
145156	Frit			3.3	N
145156	Feldspar			3.3	P
146157	3269 frit			1.68	N
146157	Yellow stain			0.03	N
146157	Brown stain			0.04	N
146157	Calcium borate			0.72	N
146157	Iron oxide			0.096	N
146157	Manganese dioxide			0.12	H
146157	Gum			0.02	P
147158	Iron oxide				N
147158	Sand				N
147158	Clay				P
150159	Chrom oxide			0.53	H
150159	Manganese dioxide			8.1	H
150159	Frit			0.89	P
1519	Manganese dioxide			0.1	H
153161	Tennessee Clay			9.902	P

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
153161	Texas Kaolin			3.93	P
153161	Pb 2Si O2			1.226	H
153161	Cedar Clay			3.425	P
153161	Chromite			0.4	H
153161	Manganese dioxide			0.25	H
153161	Brown spersastain			0.101	H
153161	Crimson spersastain			0.689	H
153161	Black			0.06	H
153161	Gray spersastain			0.004	H
153161	Green spersastain			0.251	H
153161	Pink spersastain			0.001	H
153161	Green spersastain			0.084	H
153161	Brown			0.098	H
153161	Tan spersastain			0.219	H
153161	Brown			0.082	H
153161	Gray spersastain			0.168	H
153161	Black			0.129	H
153161	Blue			0.202	H
153161	Brown			0.01	H
153161	Cobalt aluminate blue spivel			0.247	H
153161	Chrome alumina pink spivel			0.419	H
153161	Chrome alumina pink spivel			0.419	H
153161	Zinc iron cronite brown spivel			0.026	H
153161	Lead & codmium red glaze			1.1	H
153161	Lead & codmium yellow glaze			0.108	H
153161	Black spec			0.527	H
158162	Silica sand			80	N
158162	5151 brown stain			10	P
158162	Manganese dioxide			10	H
158163	Chromite			2.5	H
158163	Barium carbonate			2.5	N
158163	Ivory clay			40	P
158163	EPK kaolin			55	P
158164	Ivory clay			33	P
158164	EPK kaolin			65	P
158164	Barium carbonate			2	N
159165	Sand				N

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
159165	Red iron oxide				N
159165	Manganese dioxide				H
159165	Feldspar				P
159165	Kaolin				P
159165	Fire clay				P
159165	Shale				P
18	Ball clay			124	P
18	Fire clay			22.2	P
18	Iron chromite			144	H
18	Pyrophillite			56.7	P
18	Redart clay			34.3	P
18	Manganese oxide			7.3	H
18	Illmenite			5.7	P
18	Umber			2.1	P
181166	Chromium			7.24	H
181166	Manganese			4.62	H
181166	Cobalt			1	H
1921	Iron chromite			10	H
1921	Manganese dioxide			150	H
1921	Manganese sulfate				H
2322	White kaolin			1.9379	P
2323	Blue kaolin			5.4451	P
2323	Albion kaolin			1.3613	P
2324	White kaolin			0.1335	P
2324	Blue kaolin			0.5336	P
2324	Iron chromite			0.0133	H
2325	White kaolin			1.2981	P
2325	Blue kaolin			5.1925	P
2325	Iron chromite			0.0649	H
2326	Manganese dioxide			0.2889	H
2327	Sand			9.6739	N
2327	White kaolin			4.837	P
2327	Superpax (zirconium silicate)			0.7739	P
2329	Sand			4.2988	N
2329	White kaolin			2.1495	P
2329	Manganese dioxide			0.129	H
2329	Iron chromite			0.129	H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
2330	Sand			8.4939	N
2330	White kaolin			4.2469	P
2330	Red iron oxide			0.2548	N
2331	White kaolin			3.2274	P
2331	Yellow iron oxide			0.0645	N
2331	Sand			6.4548	N
2332	Albion kaolin			1.0334	P
2332	Blue kaolin			0.3445	P
2332	Lithospar			0.3444	N
2334	Silica flour			0.2093	N
2334	Albion kaolin			0.2094	P
2335	Silica flour			0.2605	N
2335	Cobalt oxide			0.0052	H
2335	Manganese dioxide			0.0005	H
2336	Silica flour			0.3239	N
2336	Cobalt oxide			0.0032	H
2336	Manganese dioxide			0.013	H
2338	Lithospar			0.2186	N
2338	Cobalt oxide			0.0022	H
2338	Manganese dioxide			0.0087	H
2339	Blue kaolin			0.9104	P
2339	Albion kaolin			0.2276	P
2340	Manganese dioxide			0.9315	H
2341	Sand			23.6391	N
2341	White kaolin			11.8196	P
2341	Superpax (zirconium silicate)			1.8911	P
2342	Sand			17.1717	N
2342	White kaolin			8.5858	P
2342	Iron Chromite			0.5152	H
2342	Manganese Dioxide			0.5152	H
2343	Sand			22.1055	N
2343	White Kaolin			11.0527	P
2343	Red Iron Oxide			0.6632	N
2344	Sand			16.7987	N
2344	White Kaolin			8.3993	P
2344	Yellow Iron Oxide			0.168	N
2345	cm-932			1.98	P

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
2345	cm-933			2.91	P
2345	cm-935			1.03	P
2345	cm-937			1.08	P
2345	frit 3134-2			0.402	N
2345	frit cc261-2			0.402	N
2345	EPK kaolin			0.153	P
2345	Superpax (zirconium silicate)			0.559	P
2345	Rutile			0.079	P
2345	Cobalt oxide			0.022	H
2345	Chrome oxide			0.02	H
2345	Chem copp 75			0.031	P
2345	Red iron oxide			0.031	N
2345	Zinc oxide			0.023	N
2345	Manganese dioxide			0.073	H
2345	Pigment c-292			0.002	N
2345	Pigment c-416			0.005	N
2345	Pigment c-790			0.022	H
2345	Pigment c-892			0.014	N
2345	Pigment c-1802			0.05	H
2345	Pigment f-3794			0.022	H
2437	Manganese dioxide			0.08	H
2533	Antimony			0.031	H
2533	Manganese dioxide			15.162	H
2533	Cobalt oxide			0.095	H
2533	Green chromium oxide			0.225	H
2533	Iron chromite			0.4	H
2533	Yellowstain Cr			0.003	H
2533	Yellowstain Sb			0.158	H
2646	Manganese dioxide			1.367	H
2747	Manganese dioxide			8.93	H
2848	Manganese dioxide			4.54	H
2950	Manganese dioxide				H
3051	Manganese dioxide				H
3051	Chromium oxide				H
3352	Manganese dioxide			2.3	H
3453	Manganese dioxide			0.064	H
3453	Iron chromate			0.645	H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
3453	Manganese alumina corundum			1.322	H
3554	Manganese dioxide			3	H
3554	Ochre			8	P
3554	Manganese sulfate			8	H
3554	Iron chromite			0.2	H
3757	Manganese dioxide			4	H
3855	Manganese dioxide			20	H
3855	Iron chromite			0.25	H
3956	Manganese dioxide				H
3956	Mn Al203				H
4161	Manganese dioxide			0.2	H
4161	Iron oxide			0.5	P
4161	Iron chromite			3.89	H
4358	Manganese sulfate			2	H
4358	Manganous oxide			2	H
4358	Soda lime glass			13	N
4358	Red iron oxide			1	N
4459	Brick white (brikwhite)			10	P
4459	Manganese dioxide			2	H
4459	Zinc iron chromite			0.75	H
4560	Manganese dioxide			2.85	H
4662	Manganese dioxide			8	H
4662	Buff stain			0.25	P
4662	Olivine sand			24	N
4864	Lead			0.0027	H
4864	Cadmium			0.0023	H
4864	Arsenic			0.0000045	H
4864	Manganese			0.0000045	H
4865	Manganese dioxide			5.63	H
4866	Arsenic			0.000219	H
4866	Cadmium			0.0000219	H
4866	Nickel			0.000876	H
4866	Lead			0.000219	H
4867	Manganese sulfate			2.75	H
4968	Lead			0.0081	H
4968	Cadmium			0.0068	H
4968	Arsenic			0.000013	H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
4968	Manganese			0.0000135	H
4969	Manganese dioxide			16.9	H
4970	Arsenic			0.000656	H
4970	Cadmium			0.0000656	H
4970	Nickel			0.00263	H
4970	Lead			0.000656	H
4971	Manganese sulfate			8.25	H
511	Iron chromite			11.5	H
511	Limestone			174.9	P
511	Ochre - #548 dark			15.47	P
511	Manganese 325 mesh			36.15	H
511	Ball clay			149.85	P
511	Calcium carbonate			73.95	N
5172	Manganese mineral ore			0.15	H
5172	Ochre			0.3	P
5273	Soda ash			265	N
5273	Sodium silicate			0.7	N
5273	Feldspar			44.6	P
5273	Fire clay			29.4	P
5273	Goldart clay			10.5	P
5273	Kaolin			162	P
5273	Pyrophillite			8.2	P
5273	Redart clay			32.7	P
5273	Iron oxide			17	N
5273	Lime			9.6	N
5273	Manganese oxide			5	H
5273	Ochre			15.2	P
5273	Rutile			6.5	P
5273	Silica sand			56.8	N
5273	Charlotteville sand			3590.8	N
5374	Frit			0.9	N
5374	Soda ash			140	N
5374	Brick white			41.4	P
5374	Sodium silicate			0.2	N
5374	Empire clay			49.6	P
5374	Feldspar			31.5	P
5374	Goldart clay			16.8	P

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
5374	Iron chromite			1.5	H
5374	Copper specs			0.05	N
5374	Garnet			10.2	N
5374	Redart clay			308	P
5374	Marble dust			0.8	N
5374	Iron oxide			4.3	N
5374	Lime			27.1	N
5374	Manganese dioxide			1.6	H
5374	Ochre			13.3	P
5374	Rutile			2.7	P
5374	Zinx oxide			0.1	N
5374	Silica sand			384	N
5475	Frit A			23.2	N
5475	Soda ash			531	N
5475	Sodium silicate			1.2	N
5475	Empire clay			194	P
5475	Feldspar			5.5	P
5475	Goldart clay			43.1	P
5475	Iron chromite			63.6	H
5475	Pyrophillite			24.7	P
5475	Redart clay			89.2	P
5475	Marble dust			88.6	N
5475	Iron oxide			3.9	N
5475	Lime			366	N
5475	Manganese oxide			5.6	H
5475	Ochre			12.7	N
5475	Ilmenite			0.8	P
5475	Zinc oxide			1	N
5475	Silica sand			972	N
5576	Manganese dioxide			445	H
5576	Frit			3.6	N
5576	Sodium silicate			0.3	N
5576	Bell clay			180	P
5576	Empire clay			1.2	P
5576	Goldart clay/redart clay			251	P
5576	Marble dust			5.2	N
5576	Iron oxide			78.5	N

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
5576	Lime			135	N
5576	Ochre			10	N
5576	Rutile			2.5	P
5576	Sand			528	N
5678	Manganese dioxide			8	H
5678	Fire clay			72	P
5678	Fire brick mortar			2	N
5678	Sand			105	N
5678	Frit A			18	N
5678	Iron oxide			6	N
5777	Frit A			0.2	N
5777	Soda ash			228.4	N
5777	Brick white			189.5	P
5777	Bell clay			3.5	P
5777	Fire clay			15.3	P
5777	Goldart clay			3.6	P
5777	Kaolin			91.7	P
5777	Iron chromite			0.9	H
5777	Garnet			1.1	N
5777	Redart clay			76.6	P
5777	Iron oxide			4.7	N
5777	Lime			148.4	N
5777	Manganese oxide			77.8	H
5777	Ochre			3.6	N
5777	Rutile			6.1	P
5777	Silica sand			733	N
5879	Frit A			3.4	N
5879	Barium carbonate			40.8	N
5879	Brick white			43.1	P
5879	Sodium silicate			0.4	N
5879	Bell clay			65.5	P
5879	Empire clay			135	P
5879	Feldspar			17.5	P
5879	Fire clay			18	P
5879	Goldart clay			23.2	P
5879	Cordova clay			8898	P
5879	Iron chromite			33.1	H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
5879	Iron oxide			6.6	N
5879	Lime			387	N
5879	Manganese oxide			93.4	H
5879	Rutile			4.8	P
5879	Zinc oxide			1.2	N
5879	Silica sand			352	N
5879	Redart clay			15.3	P
5980	Frit A			19.9	N
5980	Brick white			1.7	P
5980	Soda ash			120	N
5980	Sodium silicate			0.2	N
5980	Bell clay			33.6	P
5980	Empire clay			38.5	P
5980	Feldspar			19.9	P
5980	Fire clay			45.5	P
5980	Goldart clay			37.6	P
5980	Cordova clay			4	P
5980	Kaolin			4.5	P
5980	Copper specs			0.2	N
5980	Redart clay			51.2	P
5980	Marble dust			118	P
5980	Iron oxide			10.6	N
5980	Manganese oxide			99.8	H
5980	Ochre			35.9	N
5980	Rutile			1.8	P
5980	Llminite			11.4	P
5980	Zinc oxide			3	N
5980	Silica sand			824	N
6081	Frit A			5.4	N
6081	Soda ash			312	N
6081	Sodium silicate			6.1	N
6081	Bell clay			11.6	P
6081	Empire clay			12.7	P
6081	Feldspar			107	P
6081	Fire clay			41.7	P
6081	Goldart clay			28.1	P
6081	Iron chromite			41.1	H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
6081	Pyrophillite			6	P
6081	Garnet			45.3	N
6081	Redart clay			41.2	P
6081	Marble dust			168	P
6081	Iron oxide			838	N
6081	Manganese dioxide			84.2	H
6081	Ochre			54.9	N
6081	Rutile			20.9	P
6081	Zinc oxide			0.1	N
6081	Silica sand			2154	N
612	Iron chromite			0.55	H
612	Ochre #528 Dark			17.05	P
612	Limestone			235	P
612	Ball clay			7	P
612	Manganese 325 mesh			138.5	H
612	Calcium carbonate			60	P
6182	Frit A			2	N
6182	Soda ash			206	N
6182	Bell clay			3.5	P
6182	Feldspar			15.7	P
6182	Fire clay			23.6	P
6182	Goldart clay			18.5	P
6182	Kaolin			66.6	P
6182	Garnet			2.1	N
6182	Redart clay			17.8	P
6182	Marble dust			60.1	N
6182	Iron oxide			12.3	P
6182	Lime			81.9	N
6182	Manganese oxide			239	H
6182	Ochre			4.2	N
6182	Rutile			2	P
6182	Llmenite			0.6	P
6182	Zinc oxide			1.9	N
6182	Silica sand			1583	N
6182	Umber			1.2	P
6283	Frit A			0.5	N
6283	Soda ash			124.4	N

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
6283	Empire clay			0.3	P
6283	Feldspar			16	P
6283	Fire clay			16.3	P
6283	Kaolin			10.7	P
6283	Iron chromite			13.2	H
6283	Redart clay			5.9	P
6283	Iron oxide			10.1	P
6283	Lime			17.4	N
6283	Manganese dioxide			0.2	H
6283	Ochre			1.5	P
6283	Rutile			1.2	P
6283	Silica sand			743.4	N
6484	Zinc body stain			2.13	N
6484	Zinc dust			0.06	N
6484	Manganese ore			1.2	H
6585	Fire clay			37	P
6585	(Al,Mn)2 O3			1	H
6585	Chromite			6	H
6585	Cobalt, aluminum spinel			1	H
6586	Cobalt oxide			0.086	H
6586	Chromium oxide			1.014	H
6586	Nickel oxide			0.074	H
67150	Chromium				H
67150	Manganese dioxide				H
6887	Chromium oxide			0.5	H
6888	Manganese dioxide			0.5	H
6989	Chromium oxide			0.5	H
6990	Manganese dioxide			0.5	H
7091	Manganese dioxide				H
713	Manganese dioxide			3	H
713	Ochre			0.3	N
713	Chromium oxide			0.1	H
713	Chromite			0.8	H
713	Lime 5AFM			11	N
713	1513 blue stain			0.1	H
713	Cobalt carbonate			0.1	H
713	Organic pigment/frit			0.2	P

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
7192	Manganese dioxide			1	H
7192	Manganese compounds			4	H
7192	Iron chromite			2.875	H
7293	Manganese dioxide			21	H
7293	Manganese sulfate monohydrate			1.5	H
7293	Ochre			11	P
7293	Umber			8	P
7293	USG lime			73	N
7293	Manganese El Paso			4	H
7394	Manganese 325 mesh			11	H
7394	Limestone			55	P
7394	Ochre #548			43	P
7495	Ochre			9	P
7495	Manganese dioxide			3	H
7495	Manganese alumina corundum			6	H
7596	Fire clay			2.15	P
7596	Rutile			0.32	N
7596	Zinc oxide			0.11	N
7597	Fire clay			8.5	P
7597	Manganese dioxide			1.275	H
7698	Manganese dioxide			0.42	H
7799	Manganese dioxide				H
78100	Iron chromite			9.5	H
78100	Black iron oxide			20	N
78100	Manganese dioxide			39.5	H
81101	Iron chromite			1.75	H
81101	Limestone			34.73	P
81101	Manganese sulphate			0.15	H
81101	Manganese 325 mesh			2.58	H
81101	Ochre 548 dark			25.03	N
81101	Zinc oxide			4.55	N
814	Manganese dioxide			0.45	H
814	Iron oxide			0.85	N
82102	Manganese dioxide			8.78	P
82102	Soda ash			30.93	N
82102	Red iron oxide			0.25	N
84104	Manganese dioxide			24	H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
85105	Soda ash			6.4	N
85105	Brick white			147	P
85105	Sodium silicate			0.1	N
85105	Iron chromite			15.9	H
85105	Red art clay			8.1	P
85105	Marble dust			43.2	P
85105	Iron oxide			8.3	N
85105	Lime			14.4	N
85105	Manganese oxide			67.7	H
85105	Rutile			0.3	P
85105	Ilmenite			0.05	P
85105	Zinc oxide			0.3	N
85105	Silica sand			403.3	N
87106	Vitgobe			25	P
87106	Kaolin clay			0.76	P
87106	Alumina/chromium compound			0.017	H
87106	Fire clay			50	P
87106	Manganese dioxide			0.25	H
87106	Iron chromite			1	H
88107	Sodium hexameta phosphate	0.01			N
88107	Sodium calcium borate	0.15			N
88107	Ball clays	0.4			P
88107	Kaolin clays	0.2			P
88107	Iron chromite	0.017			H
88108	Sodium hexameta phosphate	0.05			N
88108	Sodium calcium borate	0.73			N
88108	Ball clays	1.5			P
88108	Kaolin clays	1.5			P
88108	Iron oxides	2			N
88108	Iron chromite	0.4			H
88109	Sodium hexameta posphate	0.1			N
88109	Sodoium calcium baorate	1.45			N
88109	Ball clays	1.5			P
88109	Kaolin clays	1.5			P
88109	Manganese oxide	0.055			H
88110	Brickote mix	1.5			P
88110	Cobalt oxide	0.038			H

TABLE 7. (continued)

ProdIDX	Material	Low	High	Ave	HAP Status
88111	Sodium calcium borate	3.65			N
88111	Sodium hexametaphosphate	0.25			N
88111	Manganese dioxide	1.2			H
90112	Sand			26.25	N
90112	Red art clay			6	P
90112	Titanium oxide			1.65	N
90112	Limestone			55	P
90112	Vitgobe			63	P
90112	Brick white			10	P
90112	Synthetic iron oxide			0.65	N
90112	Kelsan			0.13	P
90112	Feldspar			26	P
90112	Goldart clay			0.68	P

TABLE 8. RAW MATERIAL PROCESSING

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
1	CTA-1	1CTA-1	Color/texture application	Color/texture application	Sand, manganese oxide, iron chromite		BH-2	No	1BH-2
2	FW-1	2FW-1	extruder	extruding	shale, manganese	3.4	FE-7	No	2FE-7
2	MW-1	2MW-1	mixer	mixing	shale, manganese	3.4	FE-6	No	2FE-6
2	CTA-1	2CTA-1	color applicator	color/texture	manganese		FE-8	No	2FE-8
5	FW-1	5FW-1	extruder	extruding	clay, shale, manganese		FE-4	No	5FE-4
5	G-1	5G-1	grinder	grinding	clay, shale	31	BHI-1	No	5BHI-1
5	S-1	5S-1	screens	screening	clay, shale	31	BHI-1	No	5BHI-1
5	MW-1	5MW-1	mixer	mixing	clay, shale, manganese		FE-3	No	5FE-3
5	CR-1	5CR-1	crusher	crushing	clay, shale	31	FE-1	No	5FE-1
6	CTA-1	6CTA-1	application coloring/texturing	coloring/texturing	clay, shale, manganese compounds, chromium compound		FE-8	No	6FE-8
7	MW-1	7MW-1	pugmill	mixing	manganese, chromium, cobalt, chromite		FE-5	No	7FE-5
7	MD-1	7MD-1	surge bin	dry mix clay	manganese		FE-4	No	7FE-4
7	FW-1	7FW-1	extruding	forming	manganese, chromium, cobalt, chromite		FE-6	No	7FE-6
7	CR-1	7CR-1	roll crusher	crushing	manganese		FE-3	No	7FE-3
7	CTA-1	7CTA-1	texturing	texturing and sand coating	sand, manganese	0.5	BHI-1	No	7BHI-1
8	MISC-2	8MISC-2	tray loader/unloader and brick setter	load and unload brick trays and set sand mold bric	clay, shale, sand	4	BH-4	No	8BH-4
8	MH-1	8MH-1	additive feeders	feeding	manganese	0.03	BH-1	No	8BH-1
8	ST-1	8ST-1	storage tank	storing	clay, shale	16	BH-1	No	8BH-1
8	MISC-1	8MISC-1	cutting, setting brick	cut and set	clay, shale, manganese compounds		BH-4	No	8BH-4
8	CTA-1	8CTA-1	coating and texturing	coating, texturing, coloring brick	clay, shale, manganese compounds		FE-4	No	8FE-4
8	FW-1 TO FW-3	8FW-1 TO FW-3	extruder, sand, mold machine, brick hand molds	extruding, sand mold and hand mold forming	clay, shale, sand	16	BH-1, BH-4, BH-6	No	8BH-1, BH-4, BH-6
8	G-1 TO G-2	8G-1 TO G-2	grinders	grinding	clay, shale	16	BH-1 TO BH-2	No	8BH-1 TO BH-2
8	S-1 TO S-6	8S-1 TO S-6	screens	screening	clay, shale	16	BH-2	No	8BH-2
8	MW-1 TO MW-3	8MW-1 TO MW-3	pug mills	mixing	clay, shale	16	BH-1, BH-3, BH-4	No	8BH-1, BH-3, BH-4
10	FW-1	10FW-1	wet forming	extruding	clay, shale		FE-6	No	10FE-6

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
10	CR-1	10CR-1	crusher	crushing	clay, shale		FE-1	No	10FE-1
10	S-1	10S-1	screen	screening	clay, shale		FE-3	No	10FE-3
10	MISC-1	10MISC-1	cutter	cutting	clay, shale, manganese compounds		FE-8	No	10FE-8
10	CTA-1	10CTA-1	color/texture	coloring/texturing brick	clay, shale, ochre, calcium carbonate, manganese compounds, and iron chromite		FE-7	No	10FE-7
10	G-1	10G-1	grinder	grinding	clay, shale		FE-2	No	10FE-2
10	RU-1	10RU-1	wet mixer	mixing	clay, shale		FE-5	No	10FE-5
11	CTA-1	11CTA-1	colorer/texturer	coloring/texturing	clay, shale manganese		FE-9	No	11FE-9
11	FW-1	11FW-1	extruder	extruding	clay, shale		FE-8	No	11FE-8
11	G-1	11G-1	grinder	grinding	clay, shale		FE-4	No	11FE-4
11	MD-1	11MD-1	sand mixer	mixing	sand, colorants	1	US-4	No	11US-4
11	MW-1	11MW-1	mixer	mixing	clay, shale		FE-7	No	11FE-7
11	S-1	11S-1	screen	screening	clay, shale		FE-5	No	11FE-5
11	CR-1	11CR-1	crusher	crushing	clay, shale		FE-2	No	11FE-2
12	MH-2	12MH-2	feeder	additives feeding	clay, sawdust, manganese dioxide		FE-8	No	12FE-8
12	MH-3	12MH-3	hoppers	sand loading	clay, manganese dioxide, sawdust, iron chromite, pink body stain brik white		FE-21	No	12FE-21
12	MISC-3	12MISC-3	roller	smooth rolling	clay, sawdust, manganese dioxide		FE-6	No	12FE-6
12	MISC-1	12S-1	grog screen	screening	grog		FE-18	No	12FE-18
12	MW-2	12MW-2	mixer	wet mixing	clay, sawdust, manganese dioxide		FE-10	No	12FE-10
12	MW-1	12MW-1	mixer	wet mixing	clay, sawdust, manganese dioxide		FE-9	No	12FE-9
12	MISC-5	12MISC-5	cutter	cutting/setting	clay, sawdust, manganese dioxide		FE-13	No	12FE-13
12	CR-1	12CR-1	crusher	crushing	clay, sawdust, manganese dioxide		FE-2	No	12FE-2
12	MH-1	12MH-1	feeder	raw material feeding	clay, sawdust, manganese dioxide		FE-4	No	12FE-4
12	G-2	12G-2	disintegrator	disintegrating	clay, sawdust, manganese dioxide		FE-7	No	12FE-7
12	G-1	12G-1	disintegrator	disintegrating	clay, sawdust, manganese dioxide		FE-5	No	12FE-
12	FW-1	12FW-1	extruder	extruding	clay, sawdust, manganese dioxide		FE-11	No	12FE-11
12	CR-2	12CR-2	grog crusher	crushing grog	grog		FE-17	No	12FE-17
13	MD-1	13MD-1	mixer	sand mixing	clay, manganese dioxide		FE-46	No	13FE-46
13	MW-1	13MW-1	pug mill	mixing	clay, manganese dioxide		FE-42	No	13FE-42
13	CR-5	13CR-5	hammer mill	grog crushing	Batts		FE-49	No	13FE-49
13	FW-1	13FW-1	extruder	extruding	clay, manganese dioxide		FE-43	No	13FE-43

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
13	MISC-2	13MISC-2	cutter/setter	cutting/setting	clay, manganese dioxide		FE-45	No	13FE-45
14	CTA-1	14CTA-1	color/texture application	coloring	manganese dioxide, iron chromite		FE-6	No	14FE-6
14	MW-1	14MW-1	mixer	mixing	shale, clay, manganese dioxide, iron chromite		FE-4	No	14FE-4
15	MW-1	15MW-1	mixer	mixing	clay, shale, manganese dioxide		FE-5	No	15FE-5
15	CTA-1	15CTA-1	color applicator	coloring	manganese dioxide		FE-7	No	15FE-7
16	MW-1	16MW-1	mixer	mixing	schist, shale, manganese compounds		FE-2	No	16FE-2
17	MW-1	17MW-1	mixer	mixing	schist, shale, manganese compounds		FE-2	No	17FE-2
19	CTA-1	19CTA-1	color applicator	color application	sand, manganese, chromium compounds		BH-1 TO BH-3	No	19BH-1 TO BH-3
20	S-1 TO S-3	20S-1 TO S-3	screens	screening	common clay		BH-1 TO BH-3	No	20BH-1 TO BH-3
20	RU-1 TO RU-3	20RU-1 TO RU-3	storage bins	raw clay storage	common clay		FE-4 TO FE-6	No	20FE-4 TO FE-6
20	MH-1 TO MH-3	20MH-1 TO MH-3	storage bin	ground clay, storage	common clay		BH-1 TO BH-3	No	20BH-1 TO BH-3
20	MISC-1, MISC-2, MISC-3	20MISC-1, MISC-2, MISC-3	brick cutters	cutting	common clay		FE-1, FE-2	No	20FE-1, FE-2
20	G-1, G-2, G-3	20G-1, G-2, G-3	hammermills	grinding	common clay		BH-1 TO BH-3	No	20BH-1 TO BH-3
20	MW-1 TO MW-3	20MW-1 TO MW-3	brick machines	mixing	common clay, additive A, water, extrusion, lubricants, manganese oxide		BH-4	No	20BH-4
21	MW-1	21MW-1	mixer	mixing	clay, Mn	3	FE-5	No	21FE-5
21	MD-1	21MD-1	mixer	mixing	clay, Mn	4	FE-3	No	21FE-3
21	S-1	21S-1	Universal screen	screen clay to 5 mesh	clay	4	FE-1	No	21FE-1
21	G-1	21G-1	Mueller roll crusher	grind clay	clay	4	FE-1	No	21FE-1
21	G-2	21G-2	Stedman crusher	grind clay	clay	3	FE-1	No	21FE-1
21	S-2	21S-2	Universal screen	screen clay	clay	3	FE-1	No	21FE-1
21	FW-1	21FW-1	Steele 30 pug	Forn clay	Clay, Mn	3	FE-6	No	21FE-6
21	FD-1	21FD-1	Berg press	compress and form clay	clay, Mn	4	FE-4	No	21FE-4
22	FW-1	22FW-1	extruder	forming	clay, manganese compounds	8.3	FE-5	No	22FW-1
22	S-1	22S-1	screen	sizing	clay	8.3	BH-1	No	22BH-1

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
22	MH-2 TO MH-4	22HM-2 - MH-4	silos	storage	clay	8.3	BH-1	No	22BH-1
22	G-1	22G-1	mill	grinding	clay	8.3	BH-1	No	22BH-1
22	MW-1	22MW-1	pug mill	mixing	clay, manganese compounds	8.3	BH-1	No	22BH-1
23	G-3	23G-3	hammer mill	plant #1 grinding	clay and grog	15	FE-5	No	23FE-5
23	S-2	23S-2	plant #1 screen	screen	clay and grog	15	FE-8	No	23FE-8
23	G-1	23G-1	hammer mill	plant #2-3 grinding	clay and grog	40	FE-2	No	23FE-2
23	GZ-1	23GZ-1	spray guns double disks	glazing	engobes and glazes	0.03	BH-3	No	23BH-3
23	S-1	23S-1	screen	plant # 2-3 screening	clay and grog	40	FE-2	No	23FE-2
23	G-2	23G-2	grog grinder	grinding	grog	150	FE-8	No	23FE-8
23	CTA-1	23CTA-1	air guns and syntrons	sand coating tile	sands and colorants	0.11	BH-1	No	23BH-1
23	CTA-2	23CTA-2	coating machine	sand coatings brick	sand and colorants	0.15	BH-2	No	23BH-2
23	CR-1	23CR-1	grog crusher	crush brick and tile for gorg	brick and tile	150	FE-7	No	23FE-7
24	G-2	24G-2	disc mill	grinding	clay, shale	1	BH-1	No	24BH-1
24	G-3	24G-3	hammermill	grinding	rejects	0.6	BH-1	No	24BH-1
24	FW-2	24FW-2	extruder	forming	clay, shale, manganese compounds, cobalt compounds, chromium compounds	1	FE-10	No	24FE-10
24	MW-2	24MW-2	mixer	mixing	clay, shale, manganese compounds, cobalt compounds, chromium compounds	1	FE-9	No	24FE-9
24	FW-1	24FW-1	extruder	forming	clay, shale, manganese compounds, cobalt compounds, chromium compounds	0.92	FE-7	No	24FE-7
24	MW-1	24MW-1	pug mill	mixing	clay, shale, manganese compounds, cobalt compounds, chromium compounds	0.92	FE-6	No	24FE-6
25	MH-3	25MH-3		storage	manganese dioxide		FE-6	No	25FE-6
25	FW-1	25FW-1	brick machine	forming	clay, shale, manganese dioxide	26.8	FE-10	No	25FE-10
25	MW-1	25MW-1	pug mill	mixing	clay, shale, manganese dioxide	26.8	FE-9	No	25FE-9
25	MD-1	25MD-1		sand mixer	sand, manganese compounds, chromium compounds, cobalt compounds, Sb	0.1	FE-8	No	25FE-8
25	CTA-1	25CTA-1		color/texture ap.	sand, manganese, antimony, cobalt compounds, chromium compounds	26.8	FE-11	No	25FE-11
25	MW-2	25MW-2	mixer	mud, slurry, mixing	manganese compounds, antimony	0.06	FE-12	No	25FE-12
26	CTA-2	26CTA-2		color/texture	sand, manganese compounds		FE-7	No	26FE-7

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
26	CTA-1	26CTA-1		color/texture	sand, manganese compounds		BH-1	No	26BH-1
26	MD-1	26MD-1	mixer	sand mixing	MnO2, sand		BHI-1	No	26BHI-1
26	GS-1	26GS-1	screen. Mill	grinding/screen	clay, shale		FE-2	No	26FE-2
26	FW-1	26FW-1	extruder	forming	shale, clay manganese compounds		FE-6	No	26FE-6
26	MW-1	26MW-1	pugmill	mixing	shale, clay manganese compounds		FE-5	No	26FE-5
27	CTA-2	27CTA-2	spray	color application	manganese dioxide	0.25	FE-6	No	27FE-6
27	MW-1	27MW-1	pugmill	mixing	clay, shale, manganese compounds	9.4	FE-4	No	27FE-4
27	FW-1	27FW-1	brick machine	forming	clay, shale, manganese compounds	9.4	FE-5	No	27FE-5
27	CTA-1	27CTA-1	sand application	color application	sand, manganese dioxide	0.5	BH-1	No	27BH-1
28	CTA-2	28CTA-2	sand blaster	color application	manganese dioxide, sand		BH-1	No	28BH-1
28	FW-1	28FW-1	brick machine	forming	clay, shale, manganese compounds	8.5	FE-6	No	28FE-6
28	MW-1	28MW-1	pugmill	mixing	clay, shale, manganese compounds	8.5	FE-4	No	28FE-4
28	CTA-1	28CTA-1	sprays	color application	manganese dioxide		FE-7	No	28FE-7
30	CTA-1	30CTA-1	coloring	coloring	sand, manganese, chromium		BH-1	No	30BH-1
33	FW-1	33FW-1	extrusion machine	molding	shale, clay, manganese	31.29	FE-3	No	33FE-3
34	CTA-1	34CTA-1	color applicator	coloring/texturing	clay, manganese compounds, chromium compounds		FE-6	No	34FE-6
35	CTA-1	35CTA-1	color/texture application	coating	sands, clays, colorants	0.25	FE-4	No	35FE-4
35	MD-1	35MD-1	sand mixer	coatings	sands, clays, colorants	0.25	FE-5	No	35FE-5
37	CTA-1	37CTA-1	color application	coloring	manganese dioxide		FE-6	No	37FE-6
38	CTA-1	38CTA-1	color applicator	color application	clay, scoria, manganese compounds, chromium compounds		FE-5	No	38FE-5
39	MW-1	39MW-1	mixing	mixing	clay, manganese compounds, iron oxide	15	FE-2	No	39FE-2
39	CTA-1	39CTA-1	coloring and texturing	color/texture	clay, manganese compounds, iron oxide		FE-4	No	39FE-4
39	FW-1	39FW-1	extruder	forming	clay, manganese compounds	15	FE-3	No	39FE-3
40	MW-1	40MW-1	mixer	mixing	manganese dioxide, clay, sawdust, umber		FE-4	No	40FE-4
41	MW-1	41MW-1	pug mill	mixing	fireclay, shale, ochre, manganese dioxide, iron chromite	60	BH-1	No	41BH-1
41	MH-7	41MH-7	volumetric feeder	feed additive	manganese dioxide, iron chromite	2	BH-1	No	41BH-1
41	MH-2 TO MH-5	41MH-2 TO MH-5	storage bins	storage	fireclay, shale	50	FE-1	No	41FE-1
41	S-1 TO S-7	41S-1 TO S-7	screens	screening	fireclay, shale	50	FE-1	No	41FE-1

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
41	MD-2 TO MD-6	41MD-2 TO MD-6	mixers	coating batching	manganese dioxide, iron chromate	0.2	BH-1	No	41BH-1
41	MD-1	41MD-1	blending screw	premixing	fireclay, shale	60	FE-1	No	41FE-1
41	G-1, G-2	41G-1, G-2	muller and pan grinders	grinding	fireclay, shale	50	FE-1	No	41FE-1
41	CR-1	41CR-1	roller crusher	crushing	fireclay, shale	50	FE-1	No	41FE-1
42	S-1 TO S-6	42S-1 TO S-6	screens	screening	shale	100	FE-2	No	42FE-2
42	MW-1	42MW-1	brick machine	mixing	manganese dioxide shale	70	FE-4	No	42FE-4
42	CR-1	42CR-1	crusher	crushing	shale	50	FE-1	No	42FE-1
42	FW-1	42FW-1	brick machine	extruding	shale manganese dioxide	70	FE-4	No	42FE-4
42	G-2	42G-2	hammer Mill	grinding	shale	25	FE-2	No	42FE-2
42	MH-1 TO MH-2	42MH-1 TO MH-2	storage bins	storage of ground shale	shale	50	FE-3	No	42FE-3
42	G-1	42G-1	grinder	grinding	shale	25	FE-2	No	42FE-2
43	CTA-1	43CTA-1	color/texture applicator	coloring texturing	manganese sulfate monohydrate, manganous oxide		BH-1	No	
44	CTA-1	44CTA-1	color/texture application	coloring/texturing	clay, shale, manganese oxide, brickwhite, zinc iron chromite		FE-4	No	44FE-4
44	G-1	44G-1	dry pan	grinding	clay shale	15	US-3	No	44US-3
44	MW-1	44MW-1	pugmill	moulding	clay, shale, manganese oxide	16	FE-2	No	44FE-2
44	S-1	44S-1	open wall	screening	clay, shale	15	US-3	No	44US-3
45	CTA-1	45CTA-1	engobe, clay, sand spray markings	coating station	clay, shale, manganese oxide	24	BHI-1	No	45BHI-1
45	MW-1	45MW-1	mixer	mixing	clay, shale, manganese O2	24	FE-3	No	45FE-3
45	FW-1	45FW-1	pugmill	extrusion	clay, shale, manganese oxide	24	FE-4	No	45FE-4
46	MW-2	46MW-2	mixer	mix brick	clay shale, manganese		FE-10	No	46FE-10
46	MD-1	46MD-1	mixer	mix coatings	sand, manganese, buff superstain	0.5	FE-17	No	46FE-17
46	MW-1	46MW-1	mixer	mix brick	clay, shale, manganese		FE-9	No	46FE-9
46	CTA-1	46CTA-1	color/texture application	apply coloring/coating	clay, shale, manganese, buff superstain		FE-12	No	46
47	MW-1	47MW-1	mixer	mixing	clay, shale, manganese compounds, chromium compounds		FE-3	No	47FE-3
47	FW-1	47FW-1	extruder	extruding	clay, shale, manganese compounds, chromium compounds		FE-4	No	47FE-4

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
48	CR-1	48CR-1	primary jaw crusher	initial size reduction of raw clay	triassic shale	100	FE-1	No	48FE-1
48	CTA-1	48CTA-1	color/techure application	coloring/testuring	shale, manganese compounds		FE-5	No	48FE-5
48	GS-1	48GS-1	crushing and grinding	final sizing of raw clay	triassic shale	100	FE-2	No	48FE-2
49	CR-1	49CR-1	primary jaw crusher	initial size reduction of raw clay	triassic shale	180	FE-1	No	49FE-1
49	MW-1	49MW-1	mixer	mixing	shale	29	FE-3	No	49FE-3
49	CTA-1	49CTA-1	color applicator	color application	manganese compounds, As, Cd, Ni,. Pb compounds	29	FE-4	No	49FE-4
49	GS-1	49GS-1	crushing and grinding	final sizing of raw clay	triassic shale	150	FE-2	No	49FE-2
49	FW-1	49FW-1	extruder	forming	shale	29	FE-3	No	49FE-3
50	FW-1	50FW-1	extruder	extruding	clay, shale, manganese oxide, chromite		FE-3	No	50FE-3
50	MW-1	50MW-1	pugmill	mixing	clay, shale, manganese oxide, chromite		FE-2	No	50FE-2
51	MISC-5	51MISC-5	hand set conveyor belt	transfer belt for dry bricks	clay, shale, kaolin, sand, colorants, manganese, ochre	32	BH-1	No	51BH-1
51	CTA-2	51CTA-2	colorer and texturer	coloring, texturing	ochre, kaolin, clay, shale, and manganese		FE-16	No	51FE-16
51	MISC-10, MISC-4	51MISC-10, MISC-4	brick rotation conveyor	rotate dry bricks 90 degrees	clay, shale, kaolin, sand ,colorants, manganese, ochre	32	BHI-1	No	51BHI-1
51	CTA-1	51CTA-1	possey machine	sand coating	clay, shale, kaolin, manganese ochre	32	BH-1	No	51BH-1
51	MISC-9, MISC-3	51MISC-9, MISC-3	pallet unloader	unload dry bricks	clay, shale, kaolin, sand , colorants, manganese, ochre	32	BH-1	No	51BH-1
52	CC-1	52CC-1	coal crusher	crushing	coal	0.65	FE-12	No	52FE-12
52	MH-3	52MH-3	storage	crushing	coal		FE-13	No	52FE-13
52	CTA-1 TO CTA-2	52CTA-1 TO CTA-2	sand application	coloring	sand, manganese oxide		FE-8 TO FE-9	No	52FE-8 TO FE-9
53	CR-2	53CR-2	crusher	crushing	schist, shale, ash, manganese, chromium		FE-11	No	53FE-11
53	CTA-1	53CTA-1	color/texturizer	color application	manganese, chromium, sand, clay	22.3	FE-9	No	53FE-9
54	CC-1	54CC-1	coal crusher	crushing	coal	1.7	FE-11	No	54FE-11
54	CTA-1	54CTA-1	color applier	color application	sand, chrome, manganese, water		FE-4	No	54FE-4
54	CTA-2	54CTA-2	color applier	color application	sand, chrome, manganese, water		FE-9	No	54FE-9
54	MH-3	54MH-3	storage	coal storage	coal		FE-12	No	54FE-12
55	CTA-1	55CTA-1		sand application	sand, manganese		BH-2	No	55BH-2
55	MD-1	55MD-1	mixer	sand mixing	sand, manganese		BH-1	No	55BH-1

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
56	FW-1	56FW-1	extruder	forming	clay, shale, manganese		FE-6	No	56FE-6
56	MW-1	56MW-1	pug mill	mixing	clay, shale manganese		FE-5	No	56FE-5
57	CC-1	57CC-1	coal crusher	crushing	coal		BH-3	No	57BH-3
57	CTA-1	57CTA-1	color application	coloring	sand, manganese compounds, chromium compounds		BH-2	No	57BH-2
57	CTA-2	57CTA-2	color application	coloring	sand, manganese compounds, chromium compounds		BH-2	No	57BH-2
57	MH-3	57MH-3	storage	coal storage	coal		FE-3	No	57FE-3
58	CC-1	58CC-1	coal crusher	crushing	coal	0.7	BH-2	No	58BH-2
58	CTA-1, CTA-2	58CTA-1, CTA-2	color applier	coloring	sand, clay, manganese, chromium		FE-9, FE-10	No	58FE-9, FE-10
58	MH-3	58MH-3	bin	storage	coal		BH-2	No	58BH-2
59	CTA-1 TO CTA-2	59CTA-1 TO CTA-2	colorer	coloring	sand, manganese		FE-1 TO FE-2	No	59FE-1 TO FE-2
60	CTA-2	60CTA-2	color application	coloring	sand, manganese, chromium, engobe		BH-2	No	60BH-2
60	CTA-1	60CTA-1	color application	coloring	sand, manganese, engobe		FE-5	No	60FE-5
60	MD-1	60MD-1	sand mixer	mixing sands	sand, manganese, chromium, engobe		BH-2	No	60BH-2
61	CTA-1	61CTA-1	color applier	coloring	sand, manganese		BH-1	No	61BH-1
61	CTA-2	61CTA-2	color applier	coloring	sand, manganese		BH-1	No	61BH-1
62	CTA-1 TO CTA-2	62CTA-1 TO CTA-2	color applier	coloring	sand, manganese, chromium		BH-1 TO BH-2	No	62BH-1 TO BH-2
63	MH-1	63MH-1	raw material storage	storage	clay, manganese compounds, chromium compounds	17.5	FE-1	No	63FE-1
63	FW-1	63FW-1	extruder	forming	clay, manganese compounds, chromium compounds	17.5	FE-5	No	63FE-5
63	MW-2	63MW-2	pugmill	mixing	clay, manganese compounds, chromium compounds	17.5	FE-7	No	63BH-2
63	MH-3	63MH-3	additive hoppers	introduce additives to clay	clay, manganese compounds, chromium compounds	17.5	FE-4	No	63FE-4
63	MW-1	63MW-1	pugmill	mixing	clay, manganese compounds, chromium compounds	17.5	BH-1	No	63BH-1
64	CTA-1	64CTA-1	color application	coloring	manganese compounds, sand		FE-6	No	64FE-6
65	MW-2	65MW-2	mixer	mixing	clay, shale, manganese	12	FE-6	No	65FE-6
65	MH-2	65MH-2		storage	clay, shale		FE-4	No	65FE-4

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
65	G-1	65G-1	hammer mill	grinding	clay, shale	24	FE-1	No	65FE-1
65	MW-1	65MW-1	mixer	mixing	clay, shale, manganese	12	FE-5	No	65FE-5
65	MH-1	65MH-1		storage	clay, shale		FE-2	No	65FE-2
65	G-2	65G-2	dry pan grinder	grinding	clay, shale	24	FE-3	No	65FE-3
65	FW-2	65FW-2	extruder	forming	clay, shale, manganese	12	FE-8	No	65FE-8
65	FW-1	65FW-1	extruder	forming	clay, shale, manganese	12	FE-7	No	65FE-7
65	CTA-1	65CTA-1		coloring	clay, manganese, chromium, cobalt, nickel		FE-9	No	65FE-9
66	FW-1	66FW-1	extruder	forming	clay, shale, manganese, chromium		FE-2	No	66FE-2
66	CTA-1	66CTA-1	sand blasting	coloring	sand, clay, iron oxide	0.0035	BH-1	No	66BH-1
66	MW-1	66MW-1	pug mill	mixing	clay, shale, chromium, manganese		FE-1	No	66FE-1
67	CTA-1	67CTA-1		coloring	sand, manganese, chromium		BH-1	No	67BH-1
68	CTA-1	68CTA-1	sand blaster	coloring	sand, manganese, chromium		BH-1	No	68BH-1
68	G-1	68G-1	ball mill	grinding	clay	22	FE-3	No	68FE-3
68	MW-1, FW-1	68MW-1, FW-1	brick machine	extruded brick	clay	26.4	BH-1	No	68BH-1
68	CR-1	68CR-1	jaw crusher	crushing	clay	22	FE-1	No	68FE-1
69	CTA-1, CTA-2	69CTA-1, CTA-2	sand blasting	coloring	sand, manganese, chromium		BH-1, FE-7	No	69BH-1, FE-7
69	CR-1	69CR-1	jaw crusher	crushing	clay	27	FE-1	No	69FE-1
69	G-1	69G-1	ball mill	grinding	clay	27	FE-3	No	69FE-3
69	MW-1, FW-1	69MW-1, FW-1	molding machine	brick molding	wet brick	16.2	BH-1	No	69BH-1
69	MW-2, FW-2	69MW-2, FW-2	molding maching	brick molding	wet brick	16.2	FE-5,6	No	69FE-5,6
70	CTA-1	70CTA-1		color application	manganese	15.4	FE-7	No	70FE-7
71	FW-1	71FW-1	extruder	extrusion	clay, shale, water, manganese dioxide	24.3	FE-2	No	71FE-2
71	G-1	71G-1	pan grinder	grinding	clay, shale	19.55	US-4	No	71US-4
71	MW-1	71MW-1	mixer	mixing water, clay, shale	clay, shale, water, manganese dioxide	24.3	FE-1	No	71FE-1
71	CTA-1	71CTA-1	color/texture	coloring and texturing	clay, shale, manganese dioxide, iron chromite	24.3	FE-3	No	71FE-3
71	S-1, S-2	71S-1	screens	sizing of particles	clay, shale	19.546	US-4	No	71US-4
72	MW-2	72MW-2	mill room: mixing	mixing	clay, shale, Mn compounds		BH-3	No	72BH-3

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
72	CTA-2	72CTA-2	mill room: color/texture application	coloring/texturing	clay, shale, manganese dioxide, ochre, umber, manganese sulfate manohydrate	1.28	BH-3	No	72BH-3
72	FW-1	72FW-1	mill room: extruding	forming	clay, shale, Mn		BH-2	No	72BH-2
72	FW-2	72FW-2	mill room: extruding	forming	clay, shale, Mn		BH-3	No	72BH-3
72	MD-1	72MD-1	sand building	mixing	sand, manganese	1.34	BH-1	No	72BH-1
72	MISC-5	72MISC-5	vacuum	kiln car, cleaning system	shale, clay, manganese, sand	0.013	BH-4	No	72BH-4
72	MW-1	72MW-1	mill room: mixing	mixing	clay, shale, Mn compounds		BH-2	No	72BH-2
72	CTA-1	72CTA-1	mill room: color/texture application	coloring/texturing	clay, shale, manganese dioxide, ochre, umber, manganese sulfate manohydrate	0.068	BH-2	No	72BH-2
73	FW-1	73FW-1	extruding	form brick	clay, shale, manganese compounds, calcium lignosulfonate		FE-7	No	73FE-7
73	MD-1	73MD-1	mixer	sand and slurry mixing	Manganese compound, limestone, sand coatings, and ochre		CY-1	No	73CY-1
73	MW-1	73MW-1	pug mill	mix raw materials	clay, shale, manganese compounds, calcium lignosulfonate		FE-6	No	73FE-6
73	CTA-1	73CTA-1	color application	coloring and texturing	manganese compounds, limestone, ochre, clay, shale, calcium lignosulfonate		FE-8	No	73FE-8
74	CTA-1	74CTA-1	color/texture application	coloring texturing	clay, shale, manganese dioxide, ochre, and manganese aluminum coroundum		FE-7	No	74FE-7
75	CR-1	75CR-1	crusher	primary crushing	clay	20	FE-1	No	75FE-1
75	CTA-1	75CTA-1	pump and feeders	color face of bricks	clay/colorants	0.0325	FE-6	No	75FE-6
75	FW-1	75FW-1	extruder	shape clay body	clay body mix	35	FE-8	No	75FE-8
75	G-1	75G-1	hammermill	secondary grinding	clay body mix	35	FE-3	No	75FE-3
75	G-2	75G-2	roller mill	final sizing	clay body mix	35	OC-1	No	75OC-1
75	MD-1	75MD-1	dry mixer	blending	clay, grog	35	FE-2	No	75FE-2
75	MW-1	75MW-1	pug sealer	mix clay with water and Additive A	clay body mix	35	FE-7	No	75FE-7
75	S-1	75S-1	screens	screening to size	clay body mix	35	FE-4	No	75FE-4
76	CTA-1	76CTA-1	color coating	coloring	sand, manganese compound	0.15	FE-4	No	76FE-4
77	CTA-1	77CTA-1		coloring	manganese compounds	5.5	FE-7	No	77FE-7
78	MW-1, MW-2	78MW-1, MW-2	mixer	mixing	clay, shale, iron chromite, manganese dioxide	34.4	FE-6, FE-7	No	78FE-6, FE-7
78	CTA-1	78CTA-1	color/texture application	coloring/texturing	clay, shale, iron chromite, manganese dioxide	68.7	FE-1	No	78FE-1

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
79	MW-1	79MW-1	pug mill	mix clay	clay, manganese ferrite	3.39	FE-1	No	79FE-1
79	WE-1	79WE-1	clay feed	weigh and feed	clay, manganese ferrite	3.39	FE-4	No	79FE-4
80	CR-2	80CR-2	crusher	crushing	shale		FE-2	No	80FE-2
80	FW-1	80FW-1	extruder	forming	clay, shale, manganese, chromium		FE-9	No	80FE-9
80	MH-1	80MH-1	blending pile	mixing and blending	clay		FE-11	No	80FE-11
80	MW-4	80MW-4	wet mixer	mixing	clay, manganese compounds, shale, chromium compounds		FE-8	No	80FE-8
80	CR-1	80CR-1	crusher	crushing	clay		FE-1	No	80FE-1
80	S-2	80S-2	screen	screening	shale		FE-5	No	80FE-5
81	FD-1	81FD-1	sand coating and forming machines	wood-mold, brick forming	clay, sand, coating	12	US-10	No	81US-10
81	FD-2	81FD-2	sand coating and forming machines	wood-mold brick forming	clay, sand, coating	12	US-10	No	81US-10
81	CTA-1	81CTA-1	forming line	coating, texturing, extruding	clay, sand, coating	35	BH-1	No	81BH-1
82	CTA-1	82CTA-1	color/texture	adds color/texture	clay, manganese		FE-9	No	82FE-9
82	CR-1	82CR-1	crusher	crushing	clay		FE-2	No	82FE-2
82	FW-1	82FW-1	extruder	extrusion	clay		FE-8	No	82FE-8
82	G-1	82G-1	grinder	grinding	clay		FE-3	No	82FE-3
82	S-1 TO S-4	82S-1 TO S-4	screen	screening	clay		FE-4	No	82FE-4
83	G-1	83G-1	hammermill	grinding	clay	25	FE-1	No	83FE-1
83	GF-1	83GF-1	rockface line	scoring brick?	fired bricks	6.56	BH-1	No	83BH-1
83	CTA-1	83CTA-1	vibrators spray system	topical coating coloring of brick column	sand engobes	1	FE-5	No	83FE-5
83	MW-1	83MW-1	pugmill	mixing	clay water	50	FE-4	No	83FE-4
83	RU-1 TO RU-5	83RU-1 TO RU-5	storage bunkers	storage	clay		FE-3	No	83FE-3
83	S-1 TO S-4	83S-1 TO S-4	screens	product size classification	clay	25	FE-2	No	83FE-2
84	CTA-1	84CTA-1	sanding box, vibrators, rollers, etc.	topical color/of brick	clay, shale	1	BH-2	No	84BH-2
84	G-1	84G-1	hammermill	grinding	clay, shale	80	FE-2	No	84FE-2

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
84	MW-1	84MW-1	pugmill	mixing	clay, shale, water, lignin	50	FE-5	No	84FE-5
84	RU-1, RU-2	84RU-1, RU-2	ground storage bins	storage	clay, shale		FE-4	No	84FE-4
84	S-1 TO S-6	84S-1 TO S-6	screens	product size classification	clay, shale	80	FE-3	No	84FE-3
84	CR-1	84CR-1	primary crusher	grinding	clay, shale	80	FE-1	No	84FE-1
85	CTA-1	85CTA-1	colorer	coloring	sand, manganese, chromium		BH-1	No	85BH-1
85	MH-2	85MH-2	hopper	storage	sand, manganese, chromium		BH-2	No	85BH-2
86	G-1	86G-1	hammer mill	clay grinding	clay	20	BH-1	No	86BH-1
86	MD-1	86MD-1	cement pad	clay mixing	clay	40	FE-1	No	86FE-1
86	MH-1	86MH-1	clay hopper	feed clay into system	clay	20	BH-1	No	86BH-1
86	MW-1	86MW-1	pug mill and extruder	extrude pipe	clay	8	BH-2	No	86BH-2
86	MW-2	86MW-2	pug mill and extruder	extrude brick	clay	17	BH-2	No	86BH-2
86	CR-1	86CR-1	roller crusher	clay precrusher	clay	20	BH-1	No	86BH-1
86	S-1, S-2	86S-1, S-2	sifting screens	clay sifting	clay	20	BH-1	No	86BH-1
87	G-1	87G-1	grinder	sizing	clays, fireclays, sand, grog, scrap clay	0.5	FE-4	No	87FE-4
87	MD-1	87MD-1	batching	mixing	clays, fire clays, sand, grog, scrap clay	0.5	FE-2	No	87FE-2
87	MW-1	87MW-1	slurry mixers	slurry mixing	vitgobe, fire clays, water, colorants, kaolin clay	0.08	FE-13	No	87FE-13
87	MW-2	87MW-2	pugmills	clay, water, colorant mixing	clays, water, colorant	30	FE-9	No	87FE-9
87	S-1	87S-1	screening	sizing	clays, fireclays, sand, grog, scrap clay	0.5	FE-5	No	87FE-5
87	CTA-1	87CTA-1	additive feeders	dry colorant additions to clay	manganese, chromium colorants	0.57	FE-3	No	87FE-3
88	G-1	88G-1	clay batching grinding & screening	clay mixing & sizing	clay, cobalt oxide, iron chromite, MnO2	40	FE-5	No	88FE-5
88	MD-1	88MD-1	clay mixer	clay mixing	clay,MnO2, iron chromite		FE-2	No	88FE-2
88	MW-1 TO MW-2	88MW-1 TO MW-2	slurry mixers	mixing slurry	clay water, clay, cobalt oxide, iron chromite, MnO2	0.5	FE-8	No	88FE-8
88	MW-3 TO MW-4	88MW-3 TO MW-4	pugmills	clay, water colorant mixing	clay, water, clay, cobalt oxide, iron chromite, MnO2	40	FE-9	No	88FE-9
88	S-1	88S-1	screening	clay mixing and sizing	clay, cobalt oxide, iron chromite, MnO2	40	FE-5	No	88FE-5
88	WE-1	88WE-1	batching	weighing and mixing	clay, MnO2, iron chromite		FE-12	No	88FE-12

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
89	FW-1	89FW-1	moulding	form brick	shale, water, lignin	15	BH-2	No	89BH-2
89	CR-1	89CR-1	crusher	crushing	shale	15	FE-2	No	89FE-2
89	G-1	89G-1	rim discharge grinder	grinding	shale	15	BH-1	No	89BH-1
89	S-1	89S-1	screen	screening	shale	15	BH-1	No	89BH-1
89	MH-1	89MH-1	storage	storage	shale	15	US-2	No	89US-2
89	MW-1	89MW-1	mixer	wet mixing	shale, water, lignin	15	FE-3	No	89FE-3
90	G-1,G-2	90G-1,G-2	rim discharge grinder hammer mills (2)	grinding/crushing	clay	32.93	US-5	No	90US-5
90	CTA-1	90CTA-1	color/texture application	coloring/texturing	clay, manganese		FE-1	No	90FE-1
90	S-1	90S-1	screening	screening of clay	clay	32.93	US-6	No	90US-6
90	MW-1	90MW-1	brick machines	mixing of clay with water and extruder	clay/water and colorants	32.93	US-8	No	90US-8
90	WE-1	90WE-1	batching	storage and mixing of clay	clay, manganese, body additives	32.93	US-7	No	90US-7
92	FW-1	92FW-1	extruder	forming	clay, manganese	3.8	FE-6	No	92FE-6
92	MW-1	92MW-1	mixer	mixing	clay, manganese	3.8	FE-5	No	92FE-5
93	FW-1	93FW-1	extruder	extruding	clay, manganese	4	FE-6	No	93FE-6
93	MW-1	93MW-1	mixer	mixing	clay, manganese	4	FE-5	No	93FE-5
94	FW-1	94FW-1	extruder	forming	clay, manganese	3.2	FE-1	No	94FE-1
94	MW-1	94MW-1	mixer	mixing	clay, manganese	3.2	FE-2	No	94FE-2
95	FW-1	95FW-1	extruder	forming	clay manganese compounds	15.6	FE-6	No	95FE-6
95	MW-1	95MW-1	mixer	mixing	clay, manganese compounds	15.6	FE-5	No	95FE-5
96	MW-1	96MW-1	mixer	mixing	clay, manganese	9.7	FE-3	No	96FE-3
96	FW-1	96FW-1	extruder	forming	clay, manganese	9.7	FE-4	No	96FE-4
97	CTA-1 TO CTA-2	97CTA-1 TO CTA-2	coloring	coloring	sand, manganese, chromium		BH-1	No	97BH-1
97	FW-3	97FW-3	extruder	forming	clay, manganese compounds, chromium compounds		FE-12	No	97FE-12
97	CTA-3	97CTA-3	coloring	coloring	sand, manganese, chromium		BH-2	No	97BH-2
97	FW-1, FW-2	97FW-1, FW-2	extruder	forming	clay, manganese compounds, chromium compounds		FE-11	No	97FE-11
97	MW-1, MW-2	97MW-1, MW-2	mixer	mixing	clay, manganese compounds, chromium compounds		FE-5	No	97FE-5

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
97	MW-3	97MW-3	mixer	mixing	clay, manganese compounds, chromium compounds		FE-7	No	97FE-7
98	FW-1	98FW-1	extruder	forming	clay, manganese compounds, chromium compounds	11.3	FE-8	No	98FE-8
98	MW-1	98MW-1	mixer	mixing	clay, manganese compounds, chromium compounds	11.3	FE-8	No	98FE-8
99	CTA-1	99CTA-1	coloring	coloring	sand, manganese		BH-1	No	99BH-1
99	MW-1	99MW-1	mixer	mixing	clay, manganese compounds	11.3	BH-1	No	99BH-1
99	FW-1	99FW-1	extruder	forming	clay, manganese compounds	11.3	BH-1	No	99BH-1
100	CR-1	100CR-1	crusher	crushing	shale, petroleum contaminated soils	26.7	FE-4	No	100FE-4
100	CTA-1	100CTA-1	texturizer	brick forming	shale color additives, manganese, chromium, petroleum contaminated soils	24	BH-1	No	100BH-1
100	G-1	100G-1	grinding screen	grinding	shale, petroleum contaminated soils	26.7	FE-5	No	100FE-5
101	CTA-1	101CTA-1	texturizer	brick forming	shale/color additives, manganese, petroleum contaminated soils	13.7	FE-24	No	101FE-24
101	CR-1	101CR-1	crusher	crushing	shale/clay, petroleum contaminated soils	200	FE-8	No	101FE-8
101	CTA-2	101CTA-2	texturizer	brick forming	shale/color additives, manganese, petroleum contaminated soils	27.4	FE-25	No	101FE-25
101	G-2	101G-2	grinding/screen	grinding	shale/clay, petroleum contaminated soils	200	FE-2	No	101FE-2
102	CR-1	102CR-1	crusher	crushing	shale, petroleum contaminated soils	75	FE-4	No	102FE-4
102	CTA-1	102CTA-1	texturizer	brick forming	shale/color additives, manganese, petroleum contaminated soils	15.2	BH-1	No	102BH-1
102	G-1	102G-1	grinding/screen	grinding	shale, petroleum contaminated soils	75	FE-5	No	102FE-5
103	FW-2	103FW-2	extruder	forming	shale, contaminated soil	10.5	FE-14	No	103FE-14
103	CR-1	103CR-1	crusher	crushing	shale, contaminated soil	180	FE-6	No	103FE-6
103	CTA-1	103CTA-1	texturizer	brick forming	shale/color additives, contaminated soil	21	BH-1	No	103BH-1
103	CTA-2	103CTA-2	texturizer	brick forming	shale/color additives, contaminated soil	10.5	BH-2	No	103BH-2
103	FW-1	103FW-1	extruder	forming	shale, contaminated soil	21	FE-13	No	103FE-13
103	G-3	103G-3	grinding/screen	grinding	shale, contaminated soil	180	FE-7	No	103FE-7
103	MH-3	103MH-3	pile	storage	shale, contaminated soil		FE-8	No	103FE-8
103	MW-1	103MW-1	mixer	mixing	shale, contaminated soil	21	FE-11	No	103FE-11
103	MW-2	103MW-2	mixer	mixing	shale, contaminated soil	10.5	FE-12	No	103FE-12
103	S-3	103S-3	screen	sizing	shale, contaminated soil	180	FE-6	No	103FE-6

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
103	S-4	103S-4	screen	sizing	shale, contaminated soil	180	FE-7	No	103FE-7
104	S-1	104S-1	screen	screening	clay	11.2	US-4	No	104US-4
104	CR-1	104CR-1	hammermill	crushing	clay	11.2	US-4	No	104US-4
110	CTA-1	110CTA-1	colorer	coloring	sand, manganese compound		BHI-1	No	110BHI-1
110	FW-1	110FW-1	extruder	forming	shale, manganese compounds	12.2	FE-2	No	110FE-2
110	MD-1	110MD-1	sand mixer	mixing	sand, manganese compound	12.2	BHI-1	No	110BHI-1
110	MW-1	110MW-1	mixer	mixing	shale, manganese compounds	12.2	BHI-1	No	110BHI-1
110	WE-1	110WE-1	batcher	weighing	shale, manganese compounds	12.2	BHI-1	No	110BHI-1
111	FW-1	111FW-1	extruder	forming	clay, shale, manganese compounds		BHI-2	No	111BHI-2
111	MW-1	111MW-1	mixer	mixing	shale, manganese compound, clay		BHI-2	No	111BHI-2
111	WE-1	111WE-1	batching	weighing	shale, manganese compound, clay		FE-1	No	111FE-1
112	FW-4	112FW-4	soft mud molds	forming	clay, shale, manganese compound		FE-14	No	112FE-14
112	MW-3	112MW-3	mixer	mixing	clay, shale, manganese compound, chromium compound	68	BHI-11	No	112BHI-11
112	GZ-1	112GZ-1	glazer	glazes brick	fired brick	3.66	FE-12	No	112FE-12
112	GZ-2	112GZ-2	spray booth	waxing	wax, fired brick	2.25	FE-13	No	112FE-13
112	MW-1	112MW-1	mixer	mixing	clay, shale, manganese compound	68	FE-7	No	112FE-7
112	MW-2	112MW-2	mixer	mixing	clay, shale, manganese compound, chromium compound	60	BHI-3	No	112BHI-3
112	FW-3	112FW-3	extruder	forming	clay, shale, manganese compound, chromium compound	68	BHI-11	No	112BHI-11
112	WE-1	112WE-1	scale	weighing	clay, shale, manganese compound	68	FE-4	No	112FE-4
112	WE-2	112WE-2	scale	weighing	clay, shale, manganese compound, chromium compound	60	BHI-3	No	112BHI-3
112	WE-3	112WE-3	scale	weighing	clay, shale, manganese compound, chromium compound	68	BHI-11	No	112BHI-11
112	FW-1	112FW-1	extruder	forming	clay, shale , manganese compound	68	FE-5	No	112FE-5
112	FW-2	112FW-2	extruder	forming	clay, shale, manganese compound, chromium compound	60	BHI-3	No	112BHI-3
114	MW-2	114MW-2	slurry mix tanks	mixing slurry coatings	clay, water, manganese & chromium compounds, iron oxides, limestone flour	0.1	FE-11	No	114FE-11
114	CTA-1	114CTA-1	additive feeder	add dry colorant to clay	manganese compounds	0.08	FE-8	No	114FE-8

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
114	G-1	114G-1	grinding	batch mix grind clay materials	clays, grog, MnO2, iron chramite	35	FE-2	No	114FE-2
114	MD-1	114MD-1	mixer	batch mixing	clays, iron chromite, grog, MnO2	35	FE-5	No	114FE-5
114	MW-1	114MW-1	pugmill	clay, water, colorant mixing	clays, water, manganese compound	20	FE-6	No	114FE-6
114	S-1 TO S-2	114S-1 TO S-2	screens	screening clay materials	clays, MnO2, grog, iron chromite	35	FE-3	No	114FE-3
115	G-1	115G-1	hammer mill	grinding	clay	14.28	FE-1	No	115FE-1
116	CTA-1	116CTA-1	cloring and texturing	coloring brick surfaces	clay, iron manganese oxide, manganese dioxide, iron chromite, brown and yellow colorant		FE-10	No	116FE-10
116	FW-1	116FW-1	brick machine	mixing and forming	clay, pyrolusite ore, iron chromite	27	FE-9	No	116FE-9
118	CTA-1 TO CTA-2	118CTA-1 TO CTA-2	colorer/texturer	coloring/texturing	MnO2, manganese tetroxide, iron chromite		FE-13 TO FE-14	No	118FE-13 TO FE-14
119	G-1 TO G-2	119G-1 TO G-2	grinders	grinding	clay		BH-1	No	119BH-1
119	CR-1	119CR-1	crusher	crushing	clay		FE-1	No	119FE-1
119	CTA-1	119CTA-1	colorer/texturer	cloring/texturing	clay, manganese, chromium compounds		FE-5	No	119FE-5
119	MW-1	119MW-1	pug mill	mixing	clay, manganese, chromium compounds		FE-3	No	119FE-3
119	S-1 TO S-2	119S-1 TO S-2	screens	screening	clay, manganese, chromium compounds		BH-1	No	119BH-1
120	CR-1	120CR-1	crusher	crush raw material	clay, manganese		FE-1	No	120FE-1
120	CTA-1	120CTA-1	texturing	add texture	clay, manganese		FE-8	No	120FE-8
120	FW-1	120FW-1	extruder	extrusion	clay, manganese		FE-7	No	120FE-7
120	G-1	120G-1	grinder	grinding	clay, manganese		FE-2	No	120FE-2
120	MISC-1	120MDC-1	cutter	to cut	clay		FE-9	No	120FE-9
120	MW-1	120MW-1	mixer	mixing	clay, manganese		FE-6	No	120FE-6
121	MW-1	121MW-1	wet mixer	mixing	clay shale mix, MnO2		FE-5	No	121FE-5
121	CR-1	121CR-1	crusher	crushing	clay/shale mix, MnO2		FE-1	No	121FE-1
121	CTA-1	121CTA-1	coloring texturing	coloring texturing	MnO2		FE-7	No	121FE-7
121	G-1	121G-1	grinder	grinding	clay/shale mix, MnO2		FE-2	No	121FE-2
122	CTA -1	122CTA -1	coloring	color coating	manganese, clay, shale		FE-6	No	122FE-6
122	FW-1	122FW-1	extruder	forming	manganese, clay, shale		FE-5	No	122FE-5

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
122	MD-1	122MD-1	mixer	color mixing	manganese, sand		FE-8	No	122FE-8
122	MH-1	122MH-1	silo	storage	Mn		FE-7	No	122FE-7
122	MH-2	122MH-2	conveyor	handling	manganese compounds		FE-4	No	122FE-4
122	MW-1	122MW-1	pugmill	mixing	manganese compound, clay, shale		US-6	No	122US-6
123	FW-2	123FW-2	extruder	forming	clay, manganese, chromium		FE-4	No	123FE-4
123	GZ-1	123GZ-1	sprayer	glazing	glaze	0.026	SC-1	No	123SC-1
123	MW-2	123MW-2	pug mill	mixing	clay, manganese, chromium		FE-12	No	123FE-12
123	0	123WE-1	transfer bins	batching	clay, manganese, chromium	45.6	FE-6	No	123FE-6
124	CTA-1	124CTA-1	sand blaster	coloring	sand manganese iron oxides		BH-3	No	124BH-3
124	DR-1	124DR-1	rotary dryer	drying	sand, manganese, iron oxides		BH-3	No	124BH-3
124	MD-1	124MD-1	sand mixer	mixing	sand, manganese, iron oxides		BH-3	No	124BH-3
124	MD-2	124MD-2	sand mixer	mixing	sand, manganese. Iron oxide		BH-3	No	124BH-3
125	FW-1	125FW-1	extruder	forming	clay manganese	9.25	FE-7	No	125FE-7
125	MW-1	125MW-1	pugmill	mixing	clay, manganese	9.25	FE-6	No	125FE-6
126	FW-1	126FW-1	extruder	forming	clay, manganese	8.2	FE-5	No	126FE-5
126	MW-1	126MW-1	pugmill	mixing	clay, manganese	8.2	FE-4	No	126FE-4
127	FW-1	127FW-1	extruder	forming	clay, manganese	6	FE-3	No	127FE-3
127	MW-1	127MW-1	mixer	mixing	clay, manganese	6	FE-2	No	127FE-2
128	CTA-1	128CTA-1	coloring	coloring	sand, manganese		BH-1	No	128BH-1
128	FW-1	128FW-1	extruder	forming	clay, manganese	32	BH-1	No	128BH-1
129	CTA-1	129CTA-1	coloring	coloring	sand, manganese		BH-1	No	129BH-1
130	FW-1	130FW-1	extruder & cutter	extrude & cut brick column	manganese clay shale	42	FE-5	No	130FE-5
130	MW-1	130MW-1	mixer	mixes	clay shale manganese	42	FE-4	No	130FE-4
130	WE-1	130WE-1	bacher	weighs	clay shale manganese	42	FE-3	No	130FE-3
131	CTA-1	131CTA-1	color texture	adds color and texture	shale clay		FE-4	No	131FE-4
131	MD-1	131MD-1	ball mixer screw auger rotary mixer	mixing and material prep area	sand recycled brick coatings	1	US-1 TO US-2	No	131US-1 TO US-2
132	FW-1 TO FW-2	132FW-1 TO FW-2	forming and sand coarting machines	wood mold brick forming exh. Fans intall for work	clay sand coating	15	US-10 TO US-11	No	132US-10 TO US-11

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
132	FW-3	132FW-3	special shapes hand forming area	hand making brick shapes (exhaust fan installed for worker comfort)	clay sand coating	2	FE-15	No	132FE-15
132	MISC-1	132MISC-1	brick unloading and setting machine	setting brick on edge (exhaust fan installed for worker comfort)	dried brick	25	US-12	No	132US-12
133	MW-1 TO MW-2	133MW-1 TO MW-2	rotary mixers	colorant mixing	sand colorants	0.75	US-1 TO US-2	No	133US-1 TO US-2
133	CTA-1	133CTA-1	surface preparation	texturing and sand coating	clay shale sand colorants	0.15	BH-1	No	133BH-1
133	CTA-2	133CTA-2	surface preparation	texturing and sand coating	clay shale sand colorants	0.45	BH-2	No	133BH-2
134	CTA-1	134CTA-1	dyeing	coloring	manganese, sand		FE-41	No	134FE-41
135	FW-2	135FW-2	extruder	forming	clay, manganese	11.25	FE-11	No	135FE-11
135	CR-1	135CR-1	crusher	crushing	clay, contaminated clay other info.	15	FE-1	No	135FE-1
135	CTA-1	135CTA-1	color applier	color application	clay, manganese, contaminated clay other info.	15	FE-6	No	135FE-6
135	CTA-2	135CTA-2	color applier	color application	clay, manganese	11.25	FE-12	No	135FE-12
135	FW-1	135FW-1	extruder	forming	clay, manganese, contaminated clay other info.	15	FE-5	No	135FE-5
135	G-1	135G-1	hammermill	grinding	clay, contaminated clay other info.	15	FE-2	No	135FE-2
135	MW-1	135MW-1	mixer	mixing	clay, manganese, contaminated clay other info.	15	FE-4	No	135FE-4
135	MW-2	135MW-2	mixer	mixing	clay, manganese	11.25	FE-10	No	135FE-10
135	S-1 TO S-2	135S-1 TO S-2	screens	sorting	clay, contaminated clay other info.	15	FE-3	No	135FE-3
136	CR-1	136CR-1	roll crusher	crushing	shale	11	US-1	No	136US-1
136	G-1	136G-1	hammermill	grinding	shale	11	BH-1	No	136BH-1
136	S-1	136S-1	screen	screening	shale	11	FE-4	No	136FE-4
137	FW-2	137FW-2	extruders	extruding	shale, manganese	17.9	FE-5	No	137FE-5
137	CTA-1	137CTA-1	making room sand equip	sand application	shale sands, manganese	7.6	CY-1	No	137CY-1
137	CTA-2	137CTA-2	making room sand equip.	sand application	shale sands, manganese	4.2	CY-2	No	137CY-2
137	FW-1	137FW-1	extruders	forming	shale manganese	14.4	FE-4	No	137FE-4

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
137	FW-3	137FW-3	extruders	forming	shale, manganese	9.4	FE-6	No	137FE-6
137	MD-1	137MD-1	making room sand equip.	sand mix	shale sands, manganese	7.6	CY-1	No	137CY-1
137	MW-1	137MW-1	mixer	mixing	shale, manganese	14.4	FE-1	No	137FE-1
137	MW-2	137MW-2	mixers	mixing	shale, manganese	17.9	FE-2	No	137FE-2
137	MW-3	137MW-3	mixer	mixing	shale, manganese	9.4	FE-3	No	137FE-3
138	MD-1	138MD-1	mixer	mixing clay and additives	clay, manganese		FE-3	No	138FE-3
138	CTA-1	138CTA-1	color/texture	adds color/texture	clay, manganese, yellow stain		FE-7	No	138FE-7
138	FW-1	138FW-1	extruder	extrusion	clay, manganese		FE-6	No	138FE-6
138	G-1	138G-1	grinder	grinding	clay, manganese		FE-4	No	138FE-4
138	MD-2	138MD-2	sand mixer	mixing	sand, manganese		FE-10	No	138FE-10
138	MW-1	138MW-1	mixer	mixing	clay, manganese		FE-5	No	138FE-5
139	MW-1	139MW-1	mixer	mixing	clay, shale, manganese		FE-2	No	139FE-2
139	FW-1	139FW-1	extruder	forming	clay, shale, manganese		FE-3	No	139FE-3
140	CTA-1	140CTA-1	coloring/texturing	coloring/texturing	clay, feldspar, chromium		FE-1	No	140FE-1
140	G-1	140G-1	hammermills 2	grinding	clay	31.86	US-4	No	140US-4
140	MD-1	140MD-1	batching plant	storage and mixing of clay	clay	31.86	US-5	No	140US-5
140	MW-1	140MW-1	brick machines	mixing of clay with water and extrusion	clay, water, manganese oxide	31.86	US-5	No	140US-5
140	S-1	140S-1	screening	screening of clay	clay	31.86	US-4	No	140US-4
141	GZ-1	141GZ-1	spray booth and guns	glaze coating	dry tile or brick and colorant	20	FE-5	No	141FE-5
141	FW-1	141FW-1	pugmill	extruding	clay/shale body mix	20	FE-4	No	141FE-4
141	CR-1	141CR-1	jaw crusher	crushing	defective brick & tile	10	US-1	No	141US-1
141	MW-1	141MW-1	ball mill	mixing and milling	lead alumina bisilicate, nickel ferrite brown spinnel, chrome alumina pink spinnel, iron cobalt chromite black spinnel, blue spersastain, gray spersastain, cobalt chromite blue green spinnel	0.3	FE-1	No	141FE-1
141	GS-1	141GS-1	drypans and grinding	grinding	clay and shale	24	BH-1	No	141BH-1
143	FW-1 TO FW-2	143FW-1 TO FW-2	extruder	forming	clay, manganese		FE-1 TO FE-2	No	143FE-1 TO FE-2

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
143	MW-1 TO MW-2	143MW-1 TO MW-2	mixer	mixing	clay, manganese		FE-3 TO FE-4	No	143FE-3 TO FE-4
144	CR-1	144CR-1	crusher	crushing	clay, grog, bottom ash, recycled material		BHI-4	No	144BHI-4
144	FW-1	144FW-1	extruder	extrusion	clay, MnO2		BHI-1	No	144BHI-1
144	MH-3	144MH-3	Mn feeder belt	brick additive	manganese	0.05	FE-15	No	144FE-15
144	MW-1	144MW-1	pugmill	clay mixing	clay MnO2	62.5	BH-1	No	144BH-1
144	S-1 TO S-3	144S-1 TO S-3	screens	screening	clay, grog, bottom ash, recycled material		FE-9 TO FE-11	No	144FE-9 TO FE-11
145	S-1 TO S-3	145S-1 TO S-3	screens	sizing	shale, clay brick	24	US-1	No	145US-1
145	CTA-1	145CTA-1	coloring	texturing	sand, chromium compounds, cobalt, manganese		US-2	No	145US-2
145	FW-1	145FW-1	extruder	extruding	shale clay brick, manganese and chrome oxides	23.5	US-2	No	145US-2
145	G-1	145G-1	hammer mill	grinding	shale clay brick	24	US-1	No	145US-1
145	MH-1 TO MH-4	145MH-1 TO MH-4	bins	storage	shale clay brick, manganese and chrome oxides		US-2	No	145US-2
145	MW-1	145MW-1	mixer	mixing	shale clay brick, manganese and chrome oxides	23.5	US-2	No	145US-2
146	CR-1	146CR-1	roller crusher	crushing	clay	18.6	BH-1	No	146BH-1
146	FW-1 TO FW-4	146FW-1 TO FW-4	extruder	forming	clay, manganese		FE-55 TO FE-58	No	146FE-55 TO FE-58
146	FW-5	146FW-5	press	forming	clay, manganese		FE-59	No	146FE-59
146	G-1	146G-1	hammer mill	grinding	clay	18.6	BH-1	No	146BH-1
146	MW-1 TO MW-4	146MW-1 TO MW-4	pugmill	mixing	clay, manganese		FE-51 TO FE-54	No	146FE-51 TO FE-54
146	S-1 TO S-5	146S-1 TO S-5	screens	screening	clay	18.6	CY-1 ,BH-2	Yes	146CY-1 ,BH-2
147	CR-2	147CR-2	precrusher	primary crushing	scrap brick and raw materials	15	FE-2	No	147FE-2
147	CR-1	147CR-1	jaw crusher	primary crushing	scrap brick	4	FE-1	No	147FE-1
147	MISC-2	147MISC-2	brick tumbler	tumbling	fired brick	12	FE-8	No	147FE-8
147	CR-3	147CR-3	minicrusher	crushing	manganese, chromium, feldspar scrap brick and raw materials	15	FE-5	No	147FE-5
147	FW-1	147FW-1	extruders	forming	manganese chromium feldspar clay	30	FE-6	No	147FE-6

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
147	G-1	147G-1	hammermill	grinding	manganese, chromium compounds feldspar clay	20	BH-1	No	147BH-1
147	MW-1	147MW-1	mixer	mixing	manganese chromium feldspar clay		FE-25	No	147FE-25
147	RU-2	147RU-2	soak bins	mining	manganese compounds chromium compounds feldspar clay		FE-7	No	147FE-7
147	S-1 TO S-2	147S-1 TO S-2	screens 2	screening	manganese, chromium compounds feldspar clay	20	BH-1	No	147BH-1
150	CTA-1 TO CTA-2	150CTA-1 TO CTA-2	color application	color application	manganese dioxide, chrome oxide		SC-1	No	150SC-1
150	CTA-3	150CTA-3	color application	color application	manganese dioxide, chrome oxide		BH-1	No	150BH-1
151	CTA-1	151CTA-1	coloring	coloring	sand, manganese		BH-1	No	151BH-1
151	FW-1 TO FW-2	151FW-1 TO FW-2	extruder	forming	clay, manganese		FE-2	No	151FE-2
151	MISC-2	151MISC-2	cutter	cutting	sand, clay, manganese		BH-1	No	151BH-1
151	MW-1 TO MW-2	151MW-1 TO MW-2	mixer	mixing	clay, manganese		FE-7	No	151FE-7
152	FW-1	152FW-1	extruder	forming	manganese compounds	6	FE-7	No	152FE-7
152	MW-1	152MW-1	pug mill	mixing	manganese compounds	6	FE-6	No	152FE-6
153	RU-5	153RU-5	storage bin	storage	clay fired tile scrap glaze solids	1	BH-1	No	153BH-1
153	G-3	153G-3	dry pan grinder	grinding	clay fired tile scrap glaze solids	14.4	BH-1	No	153BH-1
153	GZ-1	153GZ-1	glaze booth	spraying	glaze	0.09	FE-9	No	153FE-9
153	GZ-10	153GZ-10	glaze booth	spraying	glaze	0.09	US-5	No	153US-5
153	GZ-11	153GZ-11	glaze booth	spraying	glaze	0.09	US-6	No	153US-6
153	GZ-2	153GZ-2	glaze booth	spraying	glaze	0.09	FE-10	No	153FE-10
153	GZ-3	153GZ-3	glaze booth	spraying	glaze	0.09	FE-11	No	153FE-11
153	GZ-4	153GZ-4	glaze booth	spraying	glaze	0.09	FE-12	No	153FE-12
153	GZ-5	153GZ-5	glaze booth	spraying	glaze	0.09	FE-13	No	153FE-13
153	GZ-6	153GZ-6	glaze booth	spraying	glaze	0.09	FE-14	No	153FE-14
153	GZ-7	153GZ-7	glaze booth	spraying	glaze	0.09	FE-15	No	153FE-15
153	GZ-8	153GZ-8	glaze booth	spraying	glaze	0.09	US-3	No	153US-3
153	GZ-9	153GZ-9	glaze booth	spraying	glaze	0.09	US-4	No	153US-4
153	RU-6	153RU-6	storange bin	storage	clay fired tile scrap glaze solids	1	BH-1	No	153BH-1
153	S-7	153S-7	screen	screening	clay fired tile scrap glaze solids	14.4	BH-1	No	153BH-1

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
154	CTA-1	154CTA-1	drip slurry	color application				No	
154	FW-1 TO FW-5	154FW-1 TO FW-5	extruder	forming	clay, shale, MnO2, iron chromite		FE-5,4,8,11,12	No	154FE-5,4,8,11,12
154	MW-1 TO MW-5	154MW-1 TO MW-5	mixer	mixing	clay, shale, MnO2, iron chromite		FE-2,3,9,10, BH-9	No	154FE-2,3,9,10, BH-9
155	G-1	155G-1	reversible inpactor	grinding	clay	15.75	BH-1	No	155BH-1
155	CR-1	155CR-1	crusher	crushing	clay	15.75	FE-1	No	155FE-1
155	CTA-1	155CTA-1	coating applicator	coating/surface treatment	manganese compounds, chromium compounds, clay	15.75	BH-1, CY-1	No	155BH-1, CY-1
155	FW-1	155FW-1	pug mill/ extruder	mills & extrudes	clay/additive mixture	15.75	BH-1,CY-1	No	155BH-1,CY-1
155	S-1	155S-1	screens (4)	sizing	clay	15.75	BH-1	No	155BH-1
155	G-2	155G-2	double roll hammermill	grinding	clay	15.75	BH-1	No	155BH-1
155	MH-1	155MH-1	surge hopper	control material flow	clay	15.75	FE-3	No	155FE-3
155	MW-1	155MW-1	mixer	mix in additives	clay additive A	15.75	BH-1, CY-1	No	155BH-1, CY-1
155	WE-1	155WE-1	feeder bins	add additives	additives	15.75	FE-2	No	155FE-2
158	CSS-1	158CSS-1	storage silos	clay storage	clay	29	BH-2	No	158BH-2
158	GC-1	158GC-1	jaw crusher	grinding grog	brick	1.5	BH-3	No	158BH-3
158	GR-1 TO GR-3	158GR-1 TO GR-3	2 dry pans and 2 hammer mills	grinding	clay	29	BH-1 TO BH-2	No	158BH-1 TO BH-2
158	S-1 TO S-4	158S-1 TO S-4	screens	screening	clay	29	BH-1 TO BH-2	No	158BH-1 TO BH-2
159	CR-1	159CR-1	rotary crusher	initial crushing	shale	30	US-1	No	159US-1
159	CTA-1	159CTA-1	color/texture application	deairing clay forming	shale, Mn02		FE-3	No	159FE-3
159	FW-1	159FW-1	extruder	deairing clay forming	shale	20	FE-2	No	159FE-2
159	GR-1	159GR-1	hammer mill	grinding	shale	30	US-2	No	159US-2
159	MW-1	159MW-1	pug mill	water add mixing	shale	20	FE-1	No	159FE-1
159	S-1 TO S-2	159S-1 TO S-2	vibrating screens	particle size reduction	shale	30	US-3	No	159US-3
183	FW-1	183FW-1	extruder				FE	No	183FE
183	MW-1	183MW-1	mixer	mixing			FE	No	183FE

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
184	MH-3	184MH-3	raw material storage	storage			BH-2	No	184BH-2
184	CR-1	184CR-1	crusher	primary crushing	shale	0.6	BH-1	No	184BH-1
184	FW-1	184FW-1	extruder				FE	No	184FE
184	FW-2	184FW-2	extruder				FE	No	184FE
184	G-1 TO G-2	184G-1 TO G-2	grinding pan	secondary grinding	shale	12	BH-2	No	184BH-2
184	MH-1	184MH-1	truck dump	receiving ground clay	clay	40	BH-1	No	184BH-1
184	MH-2	184MH-2	truck dump	receiving raw shale	shale	60	BH-1	No	184BH-1
184	MH-4 TO MH-7	184MH-4 TO MH-7	raw material storage	storage			FE	No	184FE
184	MW-1	184MW-1	pug mill	plasticising	shale fire clay	23	BH-3	No	184BH-3
184	MW-2	184MW-2	pug mill	plasticising	shale fire clay	23	BH-3	No	184BH-3
184	S-1 TO S-8	184S-1 TO S-8	vibrating screens	particle sizing	shale	12	BH-2	No	184BH-2
185	MD-1	185MD-1	dry mixer	dry clay mixing	shale, clay, MnO2	1	FE	No	185FE
185	FD-1	185FD-1	manual hand press		shale, silica sand	0.5	BH-1	No	185BH-1
185	FW-1	185FW-1	extruder	extruding	shale, fire clay	1	FE	No	185FE
185	MH-1 TO MH-2	185MH-1 TO MH-2	storage				FE	No	185FE
185	MW-1	185MW1	roller mill (mixer)	wet clay mixing	shale	0.5	FE	No	185FE
186	CR-1	186CR-1	crusher	raw material crushing			FE	No	186FE
186	FW-1 TO FW-3	186FW-1 TO FW-3	extruders				FE	No	186FE
186	G-1 TO G-2	186G-1 TO G-2	griders	raw material grinding			BH-1	No	186BH-1
186	GF-1 TO GF-4	186GF-1 TO GF-4	finish grinder				BH-2 TO BH-3	No	186BH-2 TO BH-3
186	MH-1 TO MH-4	186MH-1 TO MH-4	raw material storage	storage			FE	No	186FE
186	S-1 TO S-2	186S-1 TO S-2	screens	screening			BH-1	No	186BH-1
187	MH-1	187MH-1	box feeder	meter shale to crusher	shale	3	BH-1	No	187BH-1
187	CR-1	187CR-1	impact crusher	reduce particle size of shale	shale	3	BH-1	No	187BH-1

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
187	FW-1	187FW-1	handle extruder	extruded tile body	body blend	1.8	FE	No	187FE
187	FW-2 TO FW-4	187FW-2 TO FW-4	extruders	floor tile		4.2	FE	No	187FE
187	G-1	187G-1		grind, saw & size by air separation	shale	3	BH-2	No	187BH-2
187	G-2	187G-2	dry pan	reduce shale particle size	shale	10	FE	No	187FE
187	MD-1	187MD-1	PK blender	floor tile body stains			BH-8	No	187BH-8
187	S-1	187S-1	screens	classify shale particle size	shale	10	FE	No	187FE
187	MH-15	187MH-15	box feeder	feed shale to pan	shale	10	FE	No	187FE
187	MH-18, MH-25	187MH-18, MH-25	weight and volumetric feeders	floor tile body		4.2	BH-9, BH-10	No	187BH-9
187	MH-19	187MH-19	box feeder	feed clay	clay	20	FE	No	187FE
187	MH-3, MH-4	187MH-3, MH-4	storage bins	maintain reserves of shale	shale	3	BH-3	No	187BH-3
187	MH-5	187MH-5	storage bins	minor constituent powder	clay, MnO2 frit	3	BH-5	No	187BH-5
187	MISC-1	187MISC-1	bag dump station	minor constituent powder	clay, MnO2 frit	3	BH-4	No	187BH-4
187	MW-1	187MW-1	eirich mixer shear mixer	powder and water blending	body blend	1.8	BH-6	No	187BH-6
187	WE-1, WE-2	187WE-1, WE-2	batch weigh hopper 1&2	powder blend	body blend clay shale MnO2 frit	1.8	BH-6	No	187BH-6
188	CR-3	188CR-3	fired scrap crusher	crushing scrap	fired scrap	14	BH-3	No	188BH-3
188	FW-1 TO FW-2	188FW-1 TO FW-2	extrusion mills		clay/shale		FE	No	188FE
188	G-1	188G-1	dry pan	crusher/grinding	clay/shale	14	BH-1	No	188BH-1
188	G-2	188G-2	dry pan	crusher/grinding	clay/shale	14	BH-2	No	188BH-2
188	MW-1 TO MW-2	188MW-1 TO MW-2	pug mills		clay/shale		FE	No	188FE
188	S-1	188S-1	screen	screening	clay/shale	14	BH-1	No	188BH-1
188	S-2	188S-2	screen	screening	clay/shale	14	BH-2	No	188BH-2
189	FW-1	189FW-1	extruder	extruding	clay/shale, additives		FE	No	189FE

TABLE 8. (continued)

FACID	Process	ProcID	Equipment type	Purpose	Raw material	Process rate	APCD	Multiple devices	APCDID
189	CR-5	189CR-5	fired scrap crusher	crushing scrap	iron chromite, cobalt oxide, manganese dioxide		US-12	No	189US-12
189	S-4	189S-4	screen	product sizing	clay/shale, additives	7.5	BH-3	No	189BH-3
189	FW-2	189FW-2	extruder	extruding	clay/shale, additives		FE	No	189FE
189	FW-3	189FW-3	extruder	extruding	clay/shale, additives		FE	No	189FE
189	FW-4	189FW-4	extruder	extruding`	clay/shale, additives		FE	No	189FE
189	G-1	189G-1	dry pan	crushing/grinding	clay/shale, additives	8.1	BH-1	No	189BH-1
189	G-2	189G-2	dry pan	crushing/grinding	clay/shale, additives	7.2	BH-1	No	189BH-1
189	G-3	189G-3	dry pan	crushing/grinding	clay/shale, additives	9	BH-2	No	189BH-2
189	G-4	189G-4	dry pan	crushing/grinding	clay/shale, additives	9	BH-3	No	189BH-3
189	GR-4	189GR-4	grinder	grinding	iron chromite, cobalt oxide, manganese dioxide		BH-4	No	189BH-4
189	GR-5	189GR-5	grinder	grinding	iron chromite, cobalt oxide, manganese dioxide		BH-4	No	189BH-4
189	GR-6	189GR-6	grinder	grinding	iron chromite, cobalt oxide, manganese dioxide		BH-4	No	189BH-4
189	MW-1	189MW-1	pug mill	mixing	clay/shale, additives	5	BH-1	No	189BH-1
189	MW-2	189MW-2	pug mill	mixing	clay/shale, additives	5	BH-1	No	189BH-1
189	MW-3	189MW-3	pug mill	mixing	clay/shale, additives	4.5	BH-2	No	189BH-2
189	MW-4	189MW-4	pug mill	mixing	clay/shale, additives	4.5	BH-3	No	189BH-3
189	S-1	189S-1	screen	product sizing	clay/shale, additives	6.75	BH-1	No	189BH-1
189	S-2	189S-2	screen	product sizing	clay/shale, additives	6	BH-1	No	189BH-1
189	S-3	189S-3	screen	product sizing	clay/shale, additives	7.5	BH-2	No	189BH-2
189	GR-1	189GR-1	grinder	grinding	iron chromite, cobalt oxide, manganese dioxide		BH-4	No	189BH-4
189	GR-2	189GR-2	grinder	grinding	iron chromite, cobalt oxide, manganese dioxide		BH-4	No	189BH-4
189	GR-3	189GR-3	grinder	grinding	iron chromite, cobalt oxide, manganese dioxide		BH-4	No	189BH-4

TABLE 9. THERMAL PROCESSING

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
1	dc-1	1dc-1	Dryer	Dryer	Face brick	400	waste heat						7.6			us-1	us	FALSE	1us-1
1	dc-2	1dc-2	Dryer	Dryer	Face brick	400	waste heat						13.1			us-3	us	FALSE	1us-3
1	misc-1	1misc-1	pre-dryer	Predryer	face brick	150	Waste heat						20.7			fe-5	us	FALSE	1fe-5
1	TK-1	1TK-1	Tunnel kiln	Tunnel kiln	Face brick	1890	coal/natural gas	12.3					7.6	7.60	7.60	us-2	us	FALSE	1us-2
1	tk-2	1tk-2	tunnel kiln	tunnel kiln	face brick	1880	coal/natural gas	26.1					13.1	18.00	18.00	dls-1	dls	FALSE	1DLS-1
10	dc-1	10dc-1	Dryer	Dryer	Brick	410	waste heat						7.8			us-1,-2	us	FALSE	10us-1,-2
10	dc-2	10dc-2	Dryer	Dryer	Brick	410	waste heat						7.8			us-3,-4	us	FALSE	10us-3,-4
10	tk-1	10tk-1	Tunnel kiln	Tunnel kiln	Brick	2150	natural gas	31					7.6	10.10	8.33	us-5	us	FALSE	10us-5
10	tk-2	10tk-2	Tunnel kiln	Tunnel kiln	Brick	2150	natural gas	31					7.6	10.10	8.33	us-6	us	FALSE	10us-6
100	dc-1	100dc-1	Dryer	Dryer	Brick	800	Waste heat						3.1			us-2	us	FALSE	100us-2
100	dc-2	100dc-2	Dryer	Dryer	Brick	800	Waste heat						3.1			us-3	us	FALSE	100us-3
100	ds-1	100ds-1	Sawdust dryer	Sawdust dryer	Sawdust		Waste heat									us-1	us	FALSE	100us-1
100	tk-1	100tk-1	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust						3.1	6.00	6.00	ds-1	us,ds	FALSE	100ds-1
100	tk-2	100tk-2	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust						3.1	6.00	6.00	ds-1	us,ds	FALSE	100ds-1A
101	dc-1	101dc-1	Dryer	Dryer	Brick	800	Natural gas	4.43					5.31			us-1	us	FALSE	101us-1
101	dc-2	101dc-2	Dryer	Dryer	Brick	800	Natural gas	4.43					5.31			us-2	us	FALSE	101us-2
101	dc-3	101dc-3	Dryer	Dryer	Brick	800	Waste heat						10.63			us-3	us	FALSE	101us-3
101	dc-4	101dc-4	Dryer	Dryer	Brick	800	Waste heat						10.63			us-4	us	FALSE	101us-4
101	ds-1	101ds-1	Sawdust dryer w/ cyclone	Sawdust dryer	Sawdust		Waste heat									us-6,-7	us	FALSE	101us-6,-7
101	tk-1	101tk-1	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas	25.9					10.63	13.70	13.70	us-5	us	FALSE	101us-5
101	tk-2	101tk-2	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	20.3					10.63	13.70	13.70	ds-1	us,ds	FALSE	101ds-1
101	tk-3	101tk-3	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	20.3					10.63	13.70	13.70	ds-1	us,ds	FALSE	101ds-1A
102	dc-1	102dc-1	Dryer	Dryer	Brick	800	Waste heat						5.33			us-2	us	FALSE	102us-2
102	dc-2	102dc-2	Dryer	Dryer	Brick	800	Waste heat						3.45			us-3	us	FALSE	102us-3
102	ds-1	102ds-1	Sawdust dryer	Sawdust dryer	Sawdust		Waste heat									us-1	us	FALSE	102us-1
102	tk-1	102tk-1	Tunnel	Tunnel	Brick	2000	Sawdust	32.5					5.33	9.22	9.22	ds-1	us,ds	FALSE	102ds-1

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			kiln/sawdust dryer	kiln/sawdust dryer															
102	tk-2	102tk-2	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	21.5					3.45	5.97	5.97	ds-1	us,ds	FALSE	102ds-1A
103	dc-1	103dc-1	Dryer	Dryer	Brick	350	Waste heat						3.78			us-7	us	FALSE	103us-7
103	dc-2	103dc-2	Dryer	Dryer	Brick	350	Waste heat						3.78			us-8	us	FALSE	103us-8
103	dc-3	103dc-3	Dryer	Dryer	Brick	350	Waste heat						3.78			us-9	us	FALSE	103us-9
103	dc-4	103dc-4	Dryer	Dryer	Brick	350	Waste heat						3.78			us-10	us	FALSE	103us-10
103	dc-5	103dc-5	Dryer	Dryer	Brick	350	Waste heat						3.78			us-11	us	FALSE	103us-11
103	dc-6	103dc-6	Dryer	Dryer	Brick	350	Waste heat						3.78			us-12	us	FALSE	103us-12
103	ds-1	103ds-1	Drum dryer with cyclone	sawdust dryer	Sawdust	160	Waste heat									us-2,-3	us	FALSE	103us-2,-3
103	ds-2	103ds-2	Drum dryer with cyclone	sawdust dryer	Sawdust	150	Waste heat									us-1	us	FALSE	103us-1
103	tk-1	103tk-1	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	16					3.78	5.25	5.25	ds-2	us,ds	FALSE	103ds-2
103	tk-2	103tk-2	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	16					3.78	5.25	5.25	ds-2	us,ds	FALSE	103ds-2A
103	tk-3	103tk-3	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	16					3.78	5.25	5.25	ds-1	us,ds	FALSE	103ds-1
103	tk-4	103tk-4	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	16					3.78	5.25	5.25	ds-1	us,ds	FALSE	103ds-1A
103	tk-5	103tk-5	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	16					3.78	5.25	5.25	ds-1	us,ds	FALSE	103ds-1B
103	tk-6	103tk-6	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Brick	2000	Sawdust	16					3.78	5.25	5.25	ds-1	us,ds	FALSE	103ds-1C
104	dc-1	104dc-1	Dryer	Dryer	Structural Brick	200	Waste heat						3			us-2	us	FALSE	104us-2
104	tk-1	104tk-1	Tunnel kiln	Tunnel kiln	Structural Brick	1995	Sawdust	17.4					3	3.74	3.74	us-3	us	FALSE	104us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
105	dp-1	105dp-1	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-7	us	FALSE	105us-7
105	dp-2	105dp-2	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-8	us	FALSE	105us-8
105	dp-3	105dp-3	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-9	us	FALSE	105us-9
105	dp-4	105dp-4	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-10	us	FALSE	105us-10
105	dp-5	105dp-5	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-11	us	FALSE	105us-11
105	dp-6	105dp-6	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-12	us	FALSE	105us-12
105	dp-7	105dp-7	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-13	us	FALSE	105us-13
105	dp-8	105dp-8	Dryer	Dryer	Clay pipe flue lining	300	wood	0.8								us-14	us	FALSE	105us-14
105	pk-1	105pk-1	Periodic kiln	Periodic kiln	Clay pipe flue lining	2000	Sawdust	20					0.225	0.25	0.25	us-1	us	FALSE	105us-1
105	pk-2	105pk-2	Periodic kiln	Periodic kiln	Clay pipe flue lining	2000	Sawdust	20					0.225	0.25	0.25	us-2	us	FALSE	105us-2
105	pk-3	105pk-3	Periodic kiln	Periodic kiln	Clay pipe flue lining	2000	Sawdust	20					0.225	0.25	0.25	us-3	us	FALSE	105us-3
105	pk-4	105pk-4	Periodic kiln	Periodic kiln	Clay pipe flue lining	2000	Sawdust	20					0.225	0.25	0.25	us-4	us	FALSE	105us-4
105	pk-5	105pk-5	Periodic kiln	Periodic kiln	Clay pipe flue lining	2000	Natural gas	20					0.225	0.25	0.25	us-5	us	FALSE	105us-5
105	PK-6	105PK-6	Periodic kiln-idle	Periodic kiln-idle	Clay pipe flue lining		Natural gas						0	0.25	0.25	US-15	us	FALSE	105US-15
105	tk-1	105tk-1	Tunnel kiln	Tunnel kiln	Clay pipe flue lining	2000	Sawdust	13.3					2.3	3.07	3.07	us-6	us	FALSE	105us-6
106	dp-1	106dp-1	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-1	us	FALSE	106us-1
106	dp-10	106dp-10	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-10	us	FALSE	106us-10
106	dp-11	106dp-11	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-11	us	FALSE	106us-11
106	dp-12	106dp-12	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-12	us	FALSE	106us-12
106	dp-2	106dp-2	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-2	us	FALSE	106us-2
106	dp-3	106dp-3	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-3	us	FALSE	106us-3
106	dp-4	106dp-4	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-4	us	FALSE	106us-4
106	dp-5	106dp-5	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-5	us	FALSE	106us-5
106	dp-6	106dp-6	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-6	us	FALSE	106us-6

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
106	dp-7	106dp-7	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-7	us	FALSE	106us-7
106	dp-8	106dp-8	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-8	us	FALSE	106us-8
106	dp-9	106dp-9	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-9	us	FALSE	106us-9
106	pk-1	106pk-1	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.514	0.71	0.71	us-13,-14	us	FALSE	106us-13,-14
106	pk-2	106pk-2	beehive kiln	periodic kiln	Clay pipe	2000	Natural gas		720				0.514	0.71	0.71	us-15,-16	us	FALSE	106us-15,-16
106	pk-3	106pk-3	beehive kiln	periodic kiln	Clay pipe	2000	Natural gas		720				0.514	0.71	0.71	us-17,-18	us	FALSE	106us-17,-18
106	pk-4	106pk-4	beehive kiln	periodic kiln	Clay pipe	2000	Natural gas		720				0.514	0.71	0.71	us-19,-20	us	FALSE	106us-19,-20
107	dp-1	107dp-1	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-1	us	FALSE	107us-1
107	dp-2	107dp-2	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-2	us	FALSE	107us-2
107	pk-1	107pk-1	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		120	720			0.856	1.43	1.43	us-3	us	FALSE	107us-3
107	pk-2	107pk-2	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		120	720			0.856	1.43	1.43	us-4	us	FALSE	107us-4
108	dp-1	108dp-1	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-1	us	FALSE	108us-1
108	dp-2	108dp-2	Dryer	Dryer	Clay pipe	230	Natural gas		432							us-2	us	FALSE	108us-2
108	pk-1	108pk-1	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-3	us	FALSE	108us-3
108	PK-10	108PK-10	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	US-10	us	FALSE	108US-10
108	PK-11	108PK-11	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-11	us	FALSE	108US-11
108	PK-12	108PK-12	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-12	us	FALSE	108US-12
108	PK-13	108PK-13	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-13	us	FALSE	108US-13
108	PK-14	108PK-14	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-14	us	FALSE	108US-14
108	PK-15	108PK-15	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-15	us	FALSE	108US-15
108	PK-16	108PK-16	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-16	us	FALSE	108US-16
108	PK-17	108PK-17	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-17	us	FALSE	108US-17
108	PK-18	108PK-18	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-18	us	FALSE	108US-18

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
108	PK-19	108PK-19	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-19	us	FALSE	108US-19
108	pk-2	108pk-2	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-3	us	FALSE	108us-3
108	PK-20	108PK-20	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-20	us	FALSE	108US-20
108	PK-21	108PK-21	Periodic kiln-idle	Periodic kiln-idle	Clay pipe		Natural gas						0	0.14	0.14	US-21	us	FALSE	108US-21
108	pk-3	108pk-3	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-4	us	FALSE	108us-4
108	pk-4	108pk-4	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-4	us	FALSE	108us-4
108	pk-5	108pk-5	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-5	us	FALSE	108us-5
108	pk-6	108pk-6	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-6	us	FALSE	108us-6
108	pk-7	108pk-7	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-7	us	FALSE	108us-7
108	pk-8	108pk-8	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	us-8	us	FALSE	108us-8
108	PK-9	108PK-9	Periodic kiln	Periodic kiln	Clay pipe	2000	Natural gas		720				0.14	0.14	0.14	US-9	us	FALSE	108US-9
109	dp-1	109dp-1	Dryer	Dryer	Clay pipe flue liners	230	Natural gas		432							us-1	us	FALSE	109us-1
109	dp-2	109dp-2	Dryer	Dryer	Clay pipe flue liners	230	Natural gas		432							us-2	us	FALSE	109us-2
109	dp-3	109dp-3	Dryer	Dryer	Clay pipe flue liners	230	Natural gas		432							us-3	us	FALSE	109us-3
109	dp-4	109dp-4	Dryer	Dryer	Clay pipe flue liners	230	Natural gas		432							us-4	us	FALSE	109us-4
109	pk-1	109pk-1	Periodic kiln	Periodic kiln	Clay pipe flue liners	2000	Natural gas		720				0.2	0.57	0.57	us-5	us	FALSE	109us-5
109	pk-2	109pk-2	Periodic kiln	Periodic kiln	Clay pipe flue liners	2000	Natural gas		720				0.2	0.57	0.57	us-5	us	FALSE	109us-5
109	pk-3	109pk-3	Periodic kiln	Periodic kiln	Clay pipe flue liners	2000	Natural gas		720				0.2	0.57	0.57	us-6	us	FALSE	109us-6
109	PK-4	109PK-4	Periodic kiln-idle	Periodic kiln-idle	Clay pipe flue liners		Natural gas						0	0.57	0.57	US-7	us	FALSE	109US-7
109	PK-5	109PK-5	Periodic	Periodic	Clay pipe		Natural gas						0	0.57	0.57	US-8	us	FALSE	109US-8

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			kiln-idle	kiln-idle	flue liners														
11	dc-1	11dc-1	Tunnel dryer	dryer	Brick	450	waste heat						10.7			us-1	us	FALSE	11us-1
11	misc-2	11misc-2	Preheater	Predryer	Brick	250	waste heat						10.7			us-2	us	FALSE	11us-2
11	tk-1	11tk-1	tunnel kiln	tunnel kiln	Brick	2030	natural gas	29.4					10.7	11.64	11.64	us-3	us	FALSE	11us-3
110	dc-1	110dc-1	Brick dryer	dryer	Brick	300	Waste heat						2.88			us-2	us	FALSE	110us-2
110	tk-1	110tk-1	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						2.57	3.08	3.08	us-1	us	FALSE	110us-1
111	dc-1	111dc-1	Brick dryer	dryer	Brick	250	waste heat/natural gas						8.73			us-1 to us-6	us	FALSE	111us-1 to us-6
111	dr-1	111dr-1	Sand dryer	Sand dryer	Dry sand	400	Natural gas									bhi-4	bh	FALSE	111bhi-4
111	misc-1	111misc-1	Pre-heater	Predryer	Brick	450	Waste heat						8.73			us-7	us	FALSE	111us-7
111	tk-1	111tk-1	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						8.73	9.76	9.76	us-8	us	FALSE	111us-8
112	dc-1	112dc-1	Dryer	Dryer	Brick	400	waste heat/natural gas						6.67			us-3 to us-5	us	FALSE	112us-3 to us-5
112	dc-2	112dc-2	Dryer	Dryer	Brick	400	sawdust/natural gas						8.61			us-6	us	FALSE	112us-6
112	dc-3	112dc-3	Dryer	Dryer	Brick	400	waste heat/natural gas						8.61			us-7	us	FALSE	112us-7
112	dc-4	112dc-4	Dryer	Dryer	Brick	350	waste heat/natural gas						3.08			us-14	us	FALSE	112us-14
112	dc-5	112dc-5	Dryer	Dryer	Brick	350	waste heat/natural gas						3.08			us-15	us	FALSE	112us-15
112	dc-6	112dc-6	Dryer	Dryer	Brick	350	waste heat/natural gas						3.08			us-16	us	FALSE	112us-16
112	dr-1	112dr-1	Sand dryer	Sand dryer	Sand	400	Natural gas									bh-6	bh	FALSE	112bh-6
112	misc-1	112misc-1	Pre-heater	Predryer	Brick	400	Natural gas									us-17	us	FALSE	112us-17
112	MISC-2	112misc-2	Mud dryer	Mud dryer	Brick	300	Natural gas						3.33			bhi-7	bh	FALSE	112bhi-7
112	MISC-3	112misc-3	Mud dryer	Mud dryer	Brick	300	Natural gas						3.33			bhi-8	bh	FALSE	112bhi-8
112	MISC-4	112MISC-4	Glaze set shuttle kiln	Glaze set kiln	Brick	1200	Natural gas		12		30	tons				us-10,-18	us	FALSE	112us-10,-18
112	pk-1	112pk-1	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-10	112pk-10	Periodic	Periodic	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			kiln	kiln															
112	pk-11	112pk-11	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-12	112pk-12	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-13	112pk-13	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-14	112pk-14	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-15	112pk-15	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-16	112pk-16	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-17	112pk-17	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-18	112pk-18	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-19	112pk-19	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-2	112pk-2	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-20	112pk-20	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-2	us	FALSE	112us-2
112	pk-3	112pk-3	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-4	112pk-4	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-5	112pk-5	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-6	112pk-6	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-7	112pk-7	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-8	112pk-8	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	pk-9	112pk-9	Periodic kiln	Periodic kiln	Brick	2000	Natural gas		600		310	tons	0.321	0.32	0.32	us-1	us	FALSE	112us-1
112	tk-1	112tk-1	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						5.74	5.78	5.78	us-8	us	FALSE	112us-8
112	tk-2	112tk-2	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						5.74	5.78	5.78	us-8	us	FALSE	112us-8

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
112	tk-3	112tk-3	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						5.74	5.78	5.78	us-9	us	FALSE	112us-9
112	tk-4	112tk-4	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						3.08	3.48	3.48	us-11	us	FALSE	112us-11
112	tk-5	112tk-5	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						3.08	3.48	3.48	us-12	us	FALSE	112us-12
112	tk-6	112tk-6	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						3.08	3.48	3.48	us-13	us	FALSE	112us-13
113	dc-1	113dc-1	Brick dryer	dryer	Structural brick	350	Waste heat						3.2			us-2	us	FALSE	113us-2
113	dp-1	113dp-1	Batch dryer	dryer	Structural brick	180	waste heat/natural gas	1.4	12		150	tons				us-3,-4	us	FALSE	113us-3,-4
113	tk-1	113tk-1	Tunnel kiln	Tunnel kiln	Structural brick	2050	Natural gas	9.67					3.2	5.25	5.25	us-1	us	FALSE	113us-1
114	dc-1	114dc-1	Dryer	Dryer	Structural and facing brick	160	Waste heat						2.68			us-2	us	FALSE	114us-2
114	tk-1	114tk-1	Tunnel kiln	Tunnel kiln	Structural & facing brick	1970	Natural gas	8.9					2.68	13.69	13.69	us-1	us	FALSE	114us-1
115	dc-1	115dc-1	Dryer	Dryer	Structural tile	350	Waste heat						3.1			us-2	us	FALSE	115us-2
115	tk-1	115tk-1	Tunnel kiln	Tunnel kiln	Structural brick	2000	Natural gas	14.2					3.1	3.88	3.88	us-1	us	FALSE	115us-1
116	dc-1	116dc-1	Dryer	Dryer	Structural brick		Waste heat						4.8			us-1,-2	us	FALSE	116us-1,-2
116	pk-1	116pk-1	periodic kiln-idle	periodic kiln-idle	Brick		Natural gas						0	0.04	0.04	us-4	us	FALSE	116us-4
116	PK-2	116PK-2	periodic kiln-idle	periodic kiln-idle	Brick		Natural gas						0	0.04	0.04	US-5	us	FALSE	116US-5
116	PK-3	116PK-3	periodic kiln-idle	periodic kiln-idle	Brick		Natural gas						0	0.04	0.04	US-6	us	FALSE	116US-6
116	PK-4	116PK-4	periodic kiln-idle	periodic kiln-idle	Brick		Natural gas						0	0.04	0.04	US-7	us	FALSE	116US-7
116	PK-5	116PK-5	periodic kiln-idle	periodic kiln-idle	Brick		Natural gas						0	0.04	0.04	US-8	us	FALSE	116US-8
116	PK-6	116PK-6	periodic kiln-idle	periodic kiln-idle	Brick		Natural gas						0	0.04	0.04	US-9	us	FALSE	116US-9
116	PK-7	116PK-7	periodic kiln-idle	periodic kiln-idle	Brick		Natural gas						0	0.04	0.04	US-10	us	FALSE	116US-10
116	tk-1	116tk-1	Tunnel kiln	Tunnel kiln	Structural brick	2260	Natural gas						4.8	4.80	4.80	us-3	us	FALSE	116us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
117	dc-1	117dc-1	Dryer	Dryer	Structural brick	280	other-steam									us-1,-2	us	FALSE	117us-1,-2
117	dc-2	117dc-2	Dryer	Dryer	Structural brick	280	other-steam									us-3,-4	us	FALSE	117us-3,-4
117	dc-3	117dc-3	Dryer	Dryer	Structural brick	280	steam									us-5,-6	us	FALSE	117us-5,-6
117	dc-4	117dc-4	Dryer	Dryer	Structural brick	280	steam									us-7,-8	us	FALSE	117us-7,-8
117	dc-5	117dc-5	Dryer	Dryer	Structural tile	280	steam									us-9,-10	us	FALSE	117us-9,-10
117	pk-1	117pk-1	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-15,-16	us	FALSE	117us-15,-16
117	pk-10	117pk-10	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-27	us	FALSE	117us-27
117	pk-11	117pk-11	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-28	us	FALSE	117us-28
117	pk-12	117pk-12	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-19	us	FALSE	117us-19
117	pk-13	117pk-13	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-30	us	FALSE	117us-30
117	pk-14	117pk-14	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-31	us	FALSE	117us-31
117	pk-15	117pk-15	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-32	us	FALSE	117us-32
117	pk-16	117pk-16	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-33	us	FALSE	117us-33
117	pk-17	117pk-17	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-34	us	FALSE	117us-34
117	pk-18	117pk-18	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-35	us	FALSE	117us-35
117	pk-19	117pk-19	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-36	us	FALSE	117us-36
117	pk-2	117pk-2	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-17,-18	us	FALSE	117us-17,-18
117	pk-20	117pk-20	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-37	us	FALSE	117us-37
117	pk-21	117pk-21	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-38	us	FALSE	117us-38
117	pk-22	117pk-22	Periodic	Periodic	Structural	1960	Natural gas						0.051	0.11	0.11	us-39	us	FALSE	117us-39

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			kiln	kiln	brick														
117	pk-23	117pk-23	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-40	us	FALSE	117us-40
117	pk-24	117pk-24	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-41	us	FALSE	117us-41
117	pk-25	117pk-25	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-42	us	FALSE	117us-42
117	pk-26	117pk-26	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-43	us	FALSE	117us-43
117	pk-27	117pk-27	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-44	us	FALSE	117us-44
117	pk-28	117pk-28	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-45	us	FALSE	117us-45
117	pk-29	117pk-29	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-46	us	FALSE	117us-46
117	pk-3	117pk-3	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-19,-20	us	FALSE	117us-19,-20
117	pk-30	117pk-30	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-47	us	FALSE	117us-47
117	pk-31	117pk-31	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-48	us	FALSE	117us-48
117	pk-32	117pk-32	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-49	us	FALSE	117us-49
117	pk-33	117pk-33	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-50	us	FALSE	117us-50
117	pk-34	117pk-34	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-51	us	FALSE	117us-51
117	pk-35	117pk-35	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas					tons	0.051	0.11	0.11	us-52	us	FALSE	117us-52
117	pk-36	117pk-36	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-53	us	FALSE	117us-53
117	pk-37	117pk-37	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-54	us	FALSE	117us-54
117	pk-38	117pk-38	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-55	us	FALSE	117us-55
117	pk-39	117pk-39	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-56	us	FALSE	117us-56
117	pk-4	117pk-4	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-21	us	FALSE	117us-21

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
117	pk-40	117pk-40	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-57	us	FALSE	117us-57
117	pk-41	117pk-41	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-58	us	FALSE	117us-58
117	pk-42	117pk-42	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-59	us	FALSE	117us-59
117	pk-43	117pk-43	Shuttle kiln	periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-60	us	FALSE	117us-60
117	pk-5	117pk-5	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-22	us	FALSE	117us-22
117	pk-6	117pk-6	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-23	us	FALSE	117us-23
117	pk-7	117pk-7	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-24	us	FALSE	117us-24
117	pk-8	117pk-8	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-25	us	FALSE	117us-25
117	pk-9	117pk-9	Periodic kiln	Periodic kiln	Structural brick	1960	Natural gas						0.051	0.11	0.11	us-26	us	FALSE	117us-26
118	dc-1	118dc-1	Dryer	Dryer	Face brick	350	Waste heat						2.43			us-1	us	FALSE	118us-1
118	dc-2	118dc-2	Dryer	Dryer	Face brick	350	Waste heat						7.04			us-2	us	FALSE	118us-2
118	dc-3	118dc-3	Dryer	Dryer	Face brick	350	Waste heat						3.64			us-3	us	FALSE	118us-3
118	tk-1	118tk-1	Tunnel kiln	Tunnel kiln	Face brick	2030	Natural gas	6.59					3.04	3.04	3.04	us-4	us	FALSE	118us-4
118	tk-2	118tk-2	Tunnel kiln	Tunnel kiln	Face brick	2140	Natural gas	17.1					7.04	7.04	7.04	us-5	us	FALSE	118us-5
118	tk-3	118tk-3	Tunnel kiln	Tunnel kiln	Face brick	2030	Natural gas	8.11					3.04	3.04	3.04	us-6	us	FALSE	118us-6
119	dc-1	119dc-1	Dryer	Dryer	Face brick	450	Waste heat						5.9			us-1	us	FALSE	119us-1
119	dc-2	119dc-2	Dryer	Dryer	Face brick	450	Waste heat						5.9			us-2	us	FALSE	119us-2
119	misc-1	119misc-1	Holding room	predryer	Face brick	100	Waste heat						11.79			us-3	us	FALSE	119us-3
119	tk-1	119tk-1	Tunnel kiln	Tunnel kiln	Face brick	2130	Natural gas	63.071					11.79	12.00	12.00	us-4	us	FALSE	119us-4
12	dc-1	12d-1	Dryer	Dryer	Brick	450	waste heat						2.53			us-6,-7	us	FALSE	12us-6,-7
12	dc-2	12d2	Dryer	Dryer	Brick	450	waste heat						2.53			us-6,-7	us	FALSE	12us-6,-7
12	dc-3	12d-3	Dryer	Dryer	Brick	450	waste heat						2.53			us-6,-7	us	FALSE	12us-6,-7
12	dc-4	12d-4	Dryer	Dryer	Brick	450	waste heat						2.53			us-6,-7	us	FALSE	12us-6,-7
12	dr-1	12dr-1	rotary sand dryer	Sand dryer	sand	250	natural gas	0.33	8		3	tons				us-1	us	FALSE	12us-1
12	misc-6	12misc-6	holding room	predryer	brick	100	waste heat						10.1			us-2 to us-5	us	FALSE	12us-2 to us-5
12	tk-1	12tk-1	tunnel kiln	tunnel kiln	brick	2100	natural gas	14.7					5.05	6.67	6.67	us-8	us	FALSE	12us-8
12	tk-2	12tk-2	tunnel kiln	tunnel kiln	brick	2100	natural gas						5.05	6.67	6.67	us-9	us	FALSE	12us-9

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
120	dc-1	120dc-1	Brick dryer	dryer	Face brick	400	Waste heat						3.5			us-2	us	FALSE	120us-2
120	tk-1	120tk-1	Tunnel kiln	Tunnel kiln	Face brick	2000	Natural gas	15					3.5	4.43	4.43	us-1	us	FALSE	120us-1
121	dc-1	121dc-1	Brick dryer	dryer	Face brick	400	Waste heat						5.4			us-2	us	FALSE	121us-2
121	tk-1	121tk-1	Tunnel kiln	Tunnel kiln	Face brick	1800	Natural gas	14					5.1	6.28	6.28	us-1	us	FALSE	121us-1
122	dc-1	122dc-1	Tunnel dryer	dryer	Structural brick	450	Waste heat						4.76			us-3,-4	us	FALSE	122us-3,-4
122	dr-1	122dr-1	Rotary dryer	Sand dryer	Clay	650	#2 fuel oil	13.24	1	hr	8	tons/hr				us-1	us	FALSE	122us-1
122	dr-2	122dr-2	Rotary sand dryer	Sand dryer	Sand	550	Natural gas		1	hr	1	ton/hr				us-2	us	FALSE	122us-2
122	tk-1	122tk-1	Tunnel kiln	Tunnel kiln	Structural brick	2040	Natural gas	16.25					4.76	8.82	8.82	us-5	us	FALSE	122us-5
123	dp-1	123dp-1	Dryer	Dryer	Large pipe	210	Waste heat		264							us-10	us	FALSE	123us-10
123	dp-2	123dp-2	Dryer	Dryer	Large pipe	210	Waste heat		264							us-10	us	FALSE	123us-10
123	dp-3a	123dp-3a	Dryer	Dryer	Large pipe	210	Waste heat		144							us-10	us	FALSE	123us-10
123	dp-3b	123dp-3b	Dryer	Dryer	roof tile, brick, small pipe	210	Waste heat		60							us-10	us	FALSE	123us-10
123	dp-4	123dp-4	Dryer	Dryer	large	210	Waste heat		144							us-10	us	FALSE	123us-10
123	DP-5	123dp-5	Dryer	Dryer	large pipe	210	Waste heat		144							US-10	us	FALSE	123US-10
123	dp-6	123dp-6	Dryer	Dryer	roof tile, brick, small pipe	210	Waste heat		60							us-10	us	FALSE	123us-10
123	dp-7	123dp-7	Dryer	Dryer	roof tile, brick, small pipe	210	Waste heat		60							US-10	us	FALSE	123US-10
123	dp-8	123dp-8	Dryer	Dryer	roof tile brick small pipe	210	Waste heat		60		24	tons				us-10	us	FALSE	123us-10
123	dp-9	123dp-9	Dryer	Dryer	glazed terra cotta	350	Natural gas	4.8					0.22			us-9	us	FALSE	123us-9
123	pk-1	123pk-1	beehive kiln	periodic kiln	large pipe	2000	Natural gas		420				0.0913	0.11	0.11	us-1	us	FALSE	123us-1
123	pk-10	123pk-10	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-4	us	FALSE	123us-4
123	pk-11	123pk-11	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-4	us	FALSE	123us-4
123	pk-12	123pk-12	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-4	us	FALSE	123us-4

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
123	pk-13	123pk-13	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-4	us	FALSE	123us-4
123	pk-14	123pk-14	shuttle kiln	periodic kiln	glazed terra cotta	2050	Natural gas	14.28	36				0.1	0.13	0.13	us-7	us	FALSE	123us-7
123	pk-15	123pk-15	shuttle kiln	periodic kiln	roof tile	2050	Natural gas	8.64					0.6	0.68	0.68	us-6	us	FALSE	123us-6
123	pk-2	123pk-2	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-1	us	FALSE	123us-1
123	pk-3	123pk-3	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-1	us	FALSE	123us-1
123	pk-4	123pk-4	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-2	us	FALSE	123us-2
123	pk-5	123pk-5	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-2	us	FALSE	123us-2
123	pk-6	123pk-6	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-2	us	FALSE	123us-2
123	pk-7	123pk-7	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-3	us	FALSE	123us-3
123	pk-8	123pk-8	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-3	us	FALSE	123us-3
123	pk-9	123pk-9	beehive kiln	periodic kiln	large pipe	2000	Natural gas		120	720			0.0913	0.11	0.11	us-3	us	FALSE	123us-3
123	tk-1	123tk-1	Tunnel kiln	Tunnel kiln	small pipe, brick unglazed roof	2000	Natural gas	8.6					1.6	3.15	3.15	us-5	us	FALSE	123us-5
123	tk-2	123tk-2	Tunnel kiln	Tunnel kiln	small pipe, brick unglazed roof	2000	Natural gas	3.5					0.29	0.57	0.57	us-8	us	FALSE	123us-8
123	tk-3	123tk-3	Tunnel kiln-idle	Tunnel kiln-idle				3.2					0	0.50	0.50	us-11	us	FALSE	123us-11
124	dc-1	124dc-1	Dryer	Dryer	Brick	340	Waste heat						7.3			us-2	us	FALSE	124us-2
124	tk-1	124tk-1	Tunnel kiln	Tunnel kiln	Brick	1860	Natural gas						7.3	7.98	7.98	us-3	us	FALSE	124us-3
125	dc-1	125dc-1	Dryer	Dryer	Brick	300	Waste heat						9.25			us-1	us	FALSE	125us-1
125	pk-1	125pk-1	round kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.85	1.96	1.96	us-2	us	FALSE	125us-2
125	pk-2	125pk-2	round kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.85	1.96	1.96	us-3	us	FALSE	125us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
125	pk-3	125pk-3	round kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.85	1.96	1.96	us-4	us	FALSE	125us-4
125	pk-4	125pk-4	round kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.85	1.96	1.96	us-5	us	FALSE	125us-5
125	pk-5	125pk-5	round kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.85	1.96	1.96	us-6	us	FALSE	125us-6
126	dc-1	126dc-1	Dryer	Dryer	Brick	300	Waste heat						8.2			us-7	us	FALSE	126us-7
126	misc-1	126misc-1	Holding room	predryer	Brick	150	Waste heat						8.2			us-8	us	FALSE	126us-8
126	pk-1	126pk-1	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.367	1.60	1.60	us-1	us	FALSE	126us-1
126	pk-2	126pk-2	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.367	1.60	1.60	us-2	us	FALSE	126us-2
126	pk-3	126pk-3	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.367	1.60	1.60	us-3	us	FALSE	126us-3
126	pk-4	126pk-4	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.367	1.60	1.60	us-4	us	FALSE	126us-4
126	pk-5	126pk-5	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.367	1.60	1.60	us-5	us	FALSE	126us-5
126	pk-6	126pk-6	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	1.367	1.60	1.60	us-6	us	FALSE	126us-6
127	dc-1	127dc-1	Dryer	Dryer	Brick	300	waste heat/natural gas						6			us-7,-8	us	FALSE	127us-7,-8
127	pk-1	127pk-1	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	0.996	1.71	1.71	us-1	us	FALSE	127us-1
127	pk-2	127pk-2	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	0.996	1.71	1.71	us-2	us	FALSE	127us-2
127	pk-3	127pk-3	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	0.996	1.71	1.71	us-3	us	FALSE	127us-3
127	pk-4	127pk-4	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	0.996	1.71	1.71	us-4	us	FALSE	127us-4
127	pk-5	127pk-5	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	0.996	1.71	1.71	us-5	us	FALSE	127us-5
127	pk-6	127pk-6	Periodic kiln	Periodic kiln	Brick	2100	Natural gas		78		13.3	tons	0.996	1.71	1.71	us-6	us	FALSE	127us-6
128	dc-1	128dc-1	Dryer	Dryer	Brick	300	Waste heat						11			us-1	us	FALSE	128us-1
128	dc-2	128dc-2	Dryer	Dryer	Brick	300	Waste heat						11			us-2	us	FALSE	128us-2
128	misc-1	128misc-1	Holding	predryer	Brick	150	Waste heat						11			fe-1	us	FALSE	128fe-1

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			room																
128	misc-2	128misc-2	Holding room	predryer	Brick	150	Waste heat						11			fe-2	us	FALSE	128fe-2
128	tk-1	128tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						22.05	28.50	28.50	da-1	da	FALSE	128da-1
129	dc-1	129dc-1	Dryer	Dryer	Brick	300	Waste heat						5.6			us-2	us	FALSE	129us-2
129	dc-2	129dc-2	Dryer	Dryer	Brick	300	Waste heat						5.6			us-3	us	FALSE	129us-3
129	misc-1	129misc-1	Holding room	predryer	Brick	150	Waste heat						11.3			us-1	us	FALSE	129us-1
129	tk-1	129tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						11.3	15.99	15.99	us-4	us	FALSE	129us-4
13	dc-1	13dc-1	dryer	dryer	brick	400	waste heat						4.45			us-1	us	FALSE	13us-1
13	dc-2	13dc-2	tunnel dryer	dryer	brick	400	waste heat						4.45			us-2	us	FALSE	13us-2
13	dc-3	13dc-3	tunnel dryer	dryer	brick	400	waste heat						4.45			us-3	us	FALSE	13us-3
13	dc-4	13dc-4	tunnel dryer	dryer	brick	400	waste heat						4.45			us-4	us	FALSE	13us-4
13	dr-1	13dr-1	rotary sand dryer	Sand dryer	sand	250	natural gas		1		1.5					us-5	us	FALSE	13us-5
13	tk-1	13tk-1	tunnel kiln	tunnel kiln	brick	2150	natural gas	24.5					8.9	11.33	11.33	da-1	da	FALSE	13da-1
13	tk-2	13tk-2	tunnel kiln	tunnel kiln	brick	2150	natural gas	24.5					8.9	11.33	11.33	da-1	da	FALSE	13da-1
130	dc-1	130dc-1	Brick dryer	dryer	Brick	300	waste heat/natural gas						3.6			us-1,-2	us	FALSE	130us-1,-2
130	tk-1	130tk-1	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						1.8	2.31	2.31	us-3	us	FALSE	130us-3
130	tk-2	130tk-2	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas						1.8	2.31	2.31	us-4	us	FALSE	130us-4
131	dc-1	131dc-1	Dryer	Dryer	Brick	450	Waste heat						3.6			us-4	us	FALSE	131us-4
131	dc-2	131dc-2	Dryer	Dryer	Brick	450	Waste heat						3.6			us-4	us	FALSE	131us-4
131	dc-3	131dc-3	Dryer	Dryer	Brick	450	Waste heat						3.6			us-4	us	FALSE	131us-4
131	dc-4	131dc-4	Dryer	Dryer	Brick	450	Waste heat						3.6			us-4	us	FALSE	131us-4
131	dr-1	131dr-1	rotary sand dryer	Sand dryer	sand recycled brick	395	natural gas/propane	0.33	6		2					bh-1	bh	FALSE	131bh-1
131	misc-2	131misc-2	Holding room	predryer	Brick	100	Waste heat						14.3			us-3	us	FALSE	131us-3
131	tk-1	131tk-1	Tunnel kiln	Tunnel kiln	Brick	2048	natural gas/propane	14.7					6.99	10.00	7.95	us-6	us	FALSE	131us-6
131	tk-2	131tk-2	Tunnel kiln	Tunnel kiln	Brick	2048	natural gas/propane	14.7					6.99	10.00	7.72	us-7	us	FALSE	131us-7
132	dc-1	132dc-1	initial dryer	dryer	Brick	150	Waste heat						15.3			us-1	us	FALSE	132us-1
132	dc-2	132dc-2	initial dryer	dryer	Brick	150	Waste heat						15.3			us-2	us	FALSE	132us-2
132	dc-3	132dc-3	initial dryer	dryer	Brick	150	Waste heat						15.3			us-3	us	FALSE	132us-3
132	dc-4	132dc-4	initial dryer	dryer	Brick	150	Waste heat						15.3			us-4	us	FALSE	132us-4

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
132	dc-5	132dc-5	initial dryer	dryer	Brick	150	Waste heat						15.3			us-5	us	FALSE	132us-5
132	dc-6	132dc-6	initial dryer	dryer	Brick	150	Waste heat						2.55			us-6	us	FALSE	132us-6
132	dc-7	132dc-7	special shapes dryer	dryer	Brick	140	Waste heat						0.5			us-8	us	FALSE	132us-8
132	dc-8	132dc-8	special shapes dryer	dryer	Brick	140	Waste heat						0.3			us-9	us	FALSE	132us-9
132	tk-1	132tk-1	Tunnel kiln	Tunnel kiln	Brick	2020	Natural gas	41.96					12.3	15.20	15.20	us-7	us	FALSE	132us-7
133	dc-1	133dc-1	Dryer	Dryer	Brick	440	Waste heat						2.1			us-5	us	FALSE	133us-5
133	dc-2	133dc-2	Dryer	Dryer	Brick	440	Waste heat						2.1			us-5	us	FALSE	133us-5
133	dc-3	133dc-3	Dryer	Dryer	Brick	440	Waste heat						2.1			us-6	us	FALSE	133us-6
133	dc-4	133dc-4	Dryer	Dryer	Brick	440	Waste heat						2.1			us-6	us	FALSE	133us-6
133	dc-5	133dc-5	Dryer	Dryer	Brick	440	Waste heat						2.1			us-7	us	FALSE	133us-7
133	dc-6	133dc-6	Dryer	Dryer	Brick	440	Waste heat						2.1			us-7	us	FALSE	133us-7
133	dc-7	133dc-7	Dryer	Dryer	Brick	440	Waste heat						2.1			us-8	us	FALSE	133us-8
133	dc-8	133dc-8	Dryer	Dryer	Brick	440	Waste heat						2.1			us-8	us	FALSE	133us-8
133	dc-9	133dc-9	Dryer	Dryer	Brick	475	Waste heat						19.5			us-15 to us-17	us	FALSE	133us-15 to us-17
133	dr-1	133dr-1	fluid bed dryer	fluid bed dryer	dried clay		Natural gas	0.0004								us-3	us	FALSE	133us-3
133	tk-1	133tk-1	Tunnel kiln	Tunnel kiln	brick	2060	sawdust/natural gas	20.5					7.7	8.20	8.20	us-11,-12	us	FALSE	133us-11,-12
133	tk-2	133tk-2	Tunnel kiln	Tunnel kiln	Brick	2060	Natural gas	37					9.3	11.30	11.30	us-9,-10	us	FALSE	133us-9,-10
133	tk-3	133tk-3	Tunnel kiln	Tunnel kiln	Brick	2005	sawdust/natural gas	51.2					19.5	21.06	21.06	us-18	us	FALSE	133us-18
134	dc-1	134dc-1	Dryer	Dryer	Structural Brick		Waste heat						7.54			us-1	us	FALSE	134us-1
134	dc-2	134dc-2	Dryer	Dryer	Structural Brick		Waste heat						7.54			us-2	us	FALSE	134us-2
134	dc-3	134dc-3	Dryer	Dryer	Structural Brick		Waste heat						7.54			us-3	us	FALSE	134us-3
134	tk-1	134tk-1	Tunnel kiln	Tunnel kiln	Structural Brick	2000	Natural gas	30					7.54	12.26	12.26	us-4	us	FALSE	134us-4
134	tk-2	134tk-2	Tunnel kiln	Tunnel kiln	Structural Brick	2000	Natural gas	30					7.54	12.26	12.26	us-5	us	FALSE	134us-5
134	tk-3	134tk-3	Tunnel kiln	Tunnel kiln	Structural Brick	2000	Natural gas	30					7.54	12.26	12.26	us-6	us	FALSE	134us-6

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
135	dc-1	135dc-1	Dryer	Dryer	structural brick		Waste heat						7.5			us-4	us	FALSE	135us-4
135	dc-2	135dc-2	Dryer	Dryer	structural brick		Waste heat						7.5			us-5	us	FALSE	135us-5
135	dc-3	135dc-3	Dryer	Dryer	structural brick		Waste heat						11.25			us-6	us	FALSE	135us-6
135	tk-1	135tk-1	Tunnel kiln	Tunnel kiln	Structural Brick	2040	Natural gas	20					9.1	9.10	9.10	us-1	us	FALSE	135us-1
135	tk-2	135tk-2	Tunnel kiln	Tunnel kiln	structural brick	2040	Natural gas	20					9.1	9.10	9.10	us-2	us	FALSE	135us-2
135	tk-3	135tk-3	Tunnel kiln	Tunnel kiln	structural brick	2040	Natural gas	20.6					11.25	13.70	13.70	us-3	us	FALSE	135us-3
136	dc-1	136dc-1	Dryer	Dryer	Brick	350	Waste heat						0.48			us-2	us	FALSE	136us-2
136	dc-2	136dc-2	Dryer	Dryer	Brick	350	Waste heat						0.48			us-2	us	FALSE	136us-2
136	dc-3	136dc-3	Dryer	Dryer	Brick	350	Waste heat						0.48			us-3	us	FALSE	136us-3
136	dc-4	136dc-4	Dryer	Dryer	Brick	350	Waste heat						0.48			us-3	us	FALSE	136us-3
136	tk-1	136tk-1	Tunnel kiln	Tunnel kiln	Brick	2000	coal/natural gas	9.3					1.92	2.86	2.86	us-4	us	FALSE	136us-4
137	dc-1	137dc-1	Dryer	Dryer	pavers		Waste heat						9.4			us-4	us	FALSE	137us-4
137	dc-2	137dc-2	Dryer	Dryer	Face brick	850	Waste heat						7.2			us-6	us	FALSE	137us-6
137	dc-3	137dc-3	Dryer	Dryer	Face brick	850	Waste heat						7.2			us-7	us	FALSE	137us-7
137	dc-4	137dc-4	Dryer	Dryer	Face brick	850	Waste heat						8.95			us-8	us	FALSE	137us-8
137	dc-5	137dc-5	Dryer	Dryer	Face brick	850	Waste heat						8.95			us-5	us	FALSE	137us-5
137	ds-1	137ds-1	sawdust dryer w/ cyclone	sawdust dryer	sawdust		Waste heat									us-1	us	FALSE	137us-1
137	ds-2	137ds-2	sawdust dryer w/ cyclone	sawdust dryer	sawdust		Waste heat									us-2	us	FALSE	137us-2
137	tk-1	137tk-1	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Face brick	1975	Sawdust	17.15					7.2	10.00	10.00	ds-1	us,ds	FALSE	137ds-1
137	tk-2	137tk-2	Tunnel kiln/sawdust dryer	Tunnel kiln/sawdust dryer	Face brick	1975	Sawdust	16.49					7.2	10.00	10.00	ds-1	us,ds	FALSE	137ds-1A
137	tk-3	137tk-3	Tunnel kiln	Tunnel kiln	Face brick	1975	Natural gas	22.4					8.95	12.50	12.50	us-4	us	FALSE	137us-4
137	tk-4	137tk-4	Tunnel kiln	Tunnel kiln	Face brick	1975	Natural gas	19.54					8.95	12.50	12.50	us-4	us	FALSE	137us-4
137	tk-5	137tk-5	low profile fast fire kiln	tunnel kiln	pavers	2030	Natural gas	20.7					9.4	10.20	10.20	us-3	us	FALSE	137us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
137	tk-6	137tk-6	Tunnel kiln	Tunnel kiln	Brick		Natural gas						10.2	10.20	10.20	us-9	us	FALSE	137us-9
138	dc-1	138dc-1	tunnel dryer	dryer	Brick	300	waste heat/natural gas						2.53			us-2	us	FALSE	138us-2
138	dc-2	138dc-2	tunnel dryer	dryer	Brick	300	waste heat/natural gas						2.53			us-3	us	FALSE	138us-3
138	dc-3	138dc-3	tunnel dryer	dryer	Brick	300	waste heat/natural gas						2.53			us-4	us	FALSE	138us-4
138	dr-1	138dr-1	Rotary dryer	Sand dryer	raw materials	300	Natural gas	10.9					33.4			us-1	us	FALSE	138us-1
138	tk-1	138tk-1	Tunnel kiln	Tunnel kiln	Brick	2140	Natural gas	14.5					7.2	7.63	7.63	us-5	us	FALSE	138us-5
139	dc-1	139dc-1	Dryer	Dryer	Brick	250	Waste heat						3.54			us-1	us	FALSE	139us-1
139	tk-1	139tk-1	Tunnel kiln	Tunnel kiln	Brick	1900	Natural gas	11					3.54	5.71	5.71	us-1	us	FALSE	139us-1
14	dc-1	14cd-1	Dryer	Dryer	Brick	300	waste heat						3.31			us-1	us	FALSE	14us-1
14	tk-1	14tk-1	tunnel kiln	tunnel kiln	brick	1900	natural gas	7					3.31	4.50	4.50	us-2	us	FALSE	14us-2
140	dc-1	140dc-1	Dryer	Dryer	Face brick	400	Natural gas	3					7.16			us-1	us	FALSE	140us-1
140	dc-2	140dc-2	shapes dryer	dryer	Face brick	400	Natural gas	0.5					0.06			us-2	us	FALSE	140us-2
140	tk-1	140tk-1	Tunnel kiln	Tunnel kiln	Face brick	2000	Natural gas	11					6.84	9.50	9.50	us-3	us	FALSE	140us-3
141	dc-1	141dc-1	chamber dryer	dryer	brick and tile	310	Natural gas	1.5					4			us-3	us	FALSE	141us-3
141	tk-1	141tk-1	Tunnel kiln	Tunnel kiln	structural tile or brick	2060	Natural gas	3					4	4.57	4.57	us-4	us	FALSE	141us-4
142	DP-1	142dp-1	Dryer	Dryer	clay pipe	300	Natural gas									us-10	us	FALSE	142us-10
142	DP-2	142dp-2	Dryer	Dryer	clay pipe	300	Natural gas									us-11	us	FALSE	142us-11
142	dp-3	142dp-3	Dryer	Dryer	clay pipe	300	Natural gas									us-12	us	FALSE	142us-12
142	dp-4	142dp-4	Dryer	Dryer	clay pipe	300	Natural gas									us-13	us	FALSE	142us-13
142	dp-5	142dp-5	Dryer	Dryer	clay pipe	300	Natural gas									us-14	us	FALSE	142us-14
142	misc-2	142misc-2	pre heater	Predryer	clay pipe		Natural gas						2.8			us-2	us	FALSE	142us-2
142	pk-1	142pk-1	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-3	us	FALSE	142us-3
142	pk-10	142pk-10	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-9	us	FALSE	142us-9
142	PK-11	142PK-11	Periodic kiln-idle	Periodic kiln-idle	clay pipe		Natural gas						0	0.23	0.23	US-10	us	FALSE	142US-10
142	PK-12	142PK-12	Periodic	Periodic	clay pipe		Natural gas						0	0.23	0.23	US-11	us	FALSE	142US-11

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			kiln-idle	kiln-idle															
142	PK-13	142PK-13	Periodic kiln-idle	Periodic kiln-idle	clay pipe		Natural gas						0	0.23	0.23	US-12	us	FALSE	142US-12
142	pk-2	142pk-2	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-3	us	FALSE	142us-3
142	pk-3	142pk-3	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-4	us	FALSE	142us-4
142	pk-4	142pk-4	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-4	us	FALSE	142us-4
142	pk-5	142pk-5	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-5	us	FALSE	142us-5
142	pk-6	142pk-6	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-5	us	FALSE	142us-5
142	pk-7	142pk-7	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-6	us	FALSE	142us-6
142	pk-8	142pk-8	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-7	us	FALSE	142us-7
142	pk-9	142pk-9	Periodic kiln	Periodic kiln	clay pipe	2000	Natural gas		72	148	85	tons	0.216	0.23	0.23	us-8	us	FALSE	142us-8
142	tk-1	142tk-1	Tunnel kiln	Tunnel kiln	clay pipe	2000	Natural gas						2.8	3.86	3.86	us-1	us	FALSE	142us-1
143	ca-1	143ca-1	Rotary kiln	Calciner	Brick		Natural gas									us-6	us	FALSE	143us-6
143	dc-1	143dc-1	Dryer	Dryer	Brick		Waste heat						9.6			us-3	us	FALSE	143us-3
143	dc-2	143dc-2	Dryer	Dryer	Brick		Waste heat						9.6			us-4,-5	us	FALSE	143us-4,-5
143	dr-1	143dr-1	Rotary dryer	Sand dryer	Sand		Waste heat									us-7	us	FALSE	143us-7
143	tk-1	143tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						9.6	10.65	10.65	us-1	us	FALSE	143us-1
143	tk-2	143tk-2	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						9.6	10.65	10.65	us-2	us	FALSE	143us-2
144	dc-1	144dc-1	Brick dryer	dryer	Face brick	450	Waste heat						6.51			us-2	us	FALSE	144us-2
144	tk-1	144tk-1	Tunnel kiln	Tunnel kiln	Face brick	2000	Natural gas	16.3					6.51	7.42	7.42	us-1	us	FALSE	144us-1
145	dc-1	145dc-1	Dryer	Dryer	Face brick	400	Waste heat						2.18			us-3	us	FALSE	145us-3
145	dc-2	145dc-2	Dryer	Dryer	Face brick	400	Waste heat						2.19			us-3	us	FALSE	145us-3
145	tk-1	145tk-1	Tunnel kiln	Tunnel kiln	Face brick	2050	Natural gas						4.37	5.71	5.71	us-4	us	FALSE	145us-4
145	tk-2	145tk-2	Tunnel kiln-idle	Tunnel kiln-idle	Face brick								0	5.70	5.70	us-5	us	FALSE	145us-5
146	dc-1	146dc-1	Dryer	Dryer	clay tile	250	Waste heat	2					5.5			us-1	us	FALSE	146us-1
146	dc-2	146dc-2	Dryer	Dryer	clay tile	280	Waste heat	4.5					11			us-2	us	FALSE	146us-2
146	dc-3	146dc-3	Dryer	Dryer	clay tile	250	Waste heat	18					24			us-3	us	FALSE	146us-3
146	pk-1	146pk-1	shuttle kiln	periodic	clay tile	1880	Natural gas						1.27	2.20	2.20	us-5	us	FALSE	146us-5

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
				kiln															
146	tk-1	146tk-1	Tunnel kiln	Tunnel kiln	clay tile	1920	Natural gas	14					1.5	2.60	2.60	us-6	us	FALSE	146us-6
146	tk-2	146tk-2	Tunnel kiln	Tunnel kiln	clay tile	1920	Natural gas	5					2	3.46	3.46	us-7	us	FALSE	146us-7
146	tk-3	146tk-3	Tunnel kiln	Tunnel kiln	clay tile	1920	Natural gas	18.8					2.5	4.33	4.33	us-8	us	FALSE	146us-8
147	dc-1	147dc-1	Dryer	Dryer	Structural brick	400	Waste heat						4.1			us-2	us	FALSE	147us-2
147	dr-1	147dr-1	Rotary dryer	Sand dryer	sand	250	Natural gas						1			bh-2	bh	FALSE	147bh-2
147	tk-1	147tk-1	Tunnel kiln	Tunnel kiln	Structural brick	2220	Natural gas						4.1	4.90	4.90	us-1	us	FALSE	147us-1
148	dc-1	148dc-1	Dryer	Dryer	Brick		Waste heat						10.53			us-1	us	FALSE	148us-1
148	tk-1	148tk-1	Tunnel kiln	Tunnel kiln	Brick		Natural gas						10.53	13.70	13.70	da-1	da	FALSE	148da-1
149	dc-1	149dc-1	Dryer	Dryer	Brick		Waste heat						11.84			us-3	us	FALSE	149us-3
149	dc-2	149dc-2	Dryer-idle	Dryer-idle	Brick		Waste heat						0			us-4	us	FALSE	149us-4
149	tk-1	149tk-1	Tunnel kiln	Tunnel kiln	Brick	2000	Natural gas	23.51					11.84	12.71	12.71	us-1	us	FALSE	149us-1
15	dc-1	15dc-1	Dryer	Dryer	Brick	300	waste heat						3			us-1	us	FALSE	15us-1
15	tk-1	15tk-1	tunnel kiln	tunnel kiln	brick	2000	natural gas	10					3	4.79	4.79	us-2	us	FALSE	15us-2
150	dc-1	150dc-1	Dryer	Dryer	Brick	675	Waste heat						8.33			us-1	us	FALSE	150us-1
150	dc-2	150dc-2	Dryer	Dryer	Brick	675	Waste heat						8.33			us-2	us	FALSE	150us-2
150	dr-1	150dr-1	Tunnel dryer	dryer	Colorants	300	Natural gas	0.25					0.75			sc-1	sc	FALSE	150sc-1
150	misc-1,misc-2	150misc-1,misc-2	Holding room	predryer	Brick	105							16.67			us-3,-4	us	FALSE	150us-3,-4
150	tk-1	150tk-1	Tunnel kiln	Tunnel kiln	Brick	1960	Natural gas	20.8					8.33	11.13	11.13	diff-1	diff	FALSE	150diff-1
150	tk-2	150tk-2	Tunnel kiln	Tunnel kiln	Brick	1960	Natural gas	20.3					8.33	11.13	11.13	diff-2	diff	FALSE	150diff-2
151	dc-1	151dc-1	Dryer	Dryer	Brick	300	Waste heat						13.69			us-1	us	FALSE	151us-1
151	dc-2	151dc-2	Dryer	Dryer	Brick	300	Waste heat						6			us-2	us	FALSE	151us-2
151	dc-3	151dc-3	Dryer	Dryer	Brick	300	Waste heat						6			us-3	us	FALSE	151us-3
151	misc-1	151misc-1	Preheater	Predryer	Brick	150	Waste heat						13.69			us-6	us	FALSE	151us-6
151	PK-1	151PK-1	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						2	2.09	2.09	us-7	us	FALSE	151us-7
151	PK-2	151PK-2	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						2	2.09	2.09	US-8	us	FALSE	151US-8
151	PK-3	151PK-3	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						2	2.09	2.09	US-9	us	FALSE	151US-9
151	PK-4	151PK-4	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						2	2.09	2.09	US-10	us	FALSE	151US-10
151	PK-5	151PK-5	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						2	2.09	2.09	US-11	us	FALSE	151US-11

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
151	PK-6	151PK-6	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						2	2.09	2.09	US-12	us	FALSE	151US-12
151	tk-1	151tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						13.69	13.69	13.69	dls-1	dls	FALSE	151dls-1
152	dc-1	152dc-1	Dryer	Dryer	Brick	350	Waste heat						2.7			us-3	us	FALSE	152us-3
152	dc-2	152dc-2	Dryer	Dryer	Brick	350	Waste heat						2.7			us-4	us	FALSE	152us-4
152	tk-1	152tk-1	Tunnel kiln	Tunnel kiln	Brick	2200	Natural gas						2.7	3.30	3.30	us-1	us	FALSE	152us-1
152	tk-2	152tk-2	Tunnel kiln	Tunnel kiln	Brick	2200	Natural gas						9.1	9.10	9.10	da-1	da	FALSE	152da-1
153	dp-1	153dp-1	Dryer	Dryer	Structural brick and tile	200	Natural gas	3.06	96	hr	368	tons				us-1,-2	us	FALSE	153us-1,-2
153	dp-2	153dp-2	Dryer	Dryer	Fire brick	250	Natural gas	0.437	96	hr	92.25	tons				us-11	us	FALSE	153us-11
153	dp-3	153dp-3	Dryer	Dryer	Fire brick	250	Natural gas	0.437	96	hr	100.65	tons				us-12	us	FALSE	153us-12
153	dp-4	153dp-4	Dryer	Dryer	Fire brick	250	Natural gas	0.146	96	hr	12.58	tons				us-13	us	FALSE	153us-13
153	tk-1	153tk-1	Tunnel kiln	Tunnel kiln	Structural brick and tile, fire brick	2100	Natural gas	7.74					1.5	1.53	1.53	us-7,-8	us	FALSE	153us-7,-8
153	tk-2	153tk-2	Tunnel kiln	Tunnel kiln	Structural brick and tile, fire brick	2100	Natural gas	7.74					1.5	1.53	1.53	us-9,-10	us	FALSE	153us-9,-10
154	dc-1	154dc-1	Dryer	Dryer	Brick	360	Waste heat									us-1	us	FALSE	154us-1
154	dc-2	154dc-2	Preheater	Predryer	Brick	350	Waste heat									fe-6,-7	us	FALSE	154fe-6,-7
154	misc-1	154misc-1	Predryer	Predryer	Brick	215	Waste heat									fe-6	us	FALSE	154fe-6
154	misc-2	154misc-2	Predryer	Predryer	Brick	215	Waste heat									fe-14	us	FALSE	154fe-14
154	misc-3	154misc-3	Predryer	Predryer	Brick	160	Waste heat									fe-7	us	FALSE	154fe-7
154	misc-5	154misc-5	Predryer	Predryer	Brick	120	Waste heat									fe-13	us	FALSE	154fe-13
154	misc-6	154misc-6	Predryer	Predryer	Brick	120	Waste heat									bh-7	bh	FALSE	154bh-7
154	tk-1	154tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas	23.4					7.1	13.30	13.30	sc-1	sc	FALSE	154sc-1
154	tk-2	154tk-2	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas	43.6					13.3	13.30	13.30	sc-2	sc	FALSE	154sc-2
155	dc-1	155dc-1	ceric dryer	dryer	Structural brick	375	natural gas/waste heat	7.1					4.53			us-1	us	FALSE	155us-1
155	dc-2	155dc-2	lingl dryer	dryer	Structural brick	375	natural gas/waste heat	7.1					4.53			us-2	us	FALSE	155us-2
155	tk-1	155tk-1	Tunnel kiln	Tunnel kiln	Structural brick	2150	Natural gas	20					9.05	12.55	12.55	dls-1	dls	FALSE	155dls-1
156	dc-1	156dc-1	Brick dryer	dryer	Brick		Natural gas									us-2	us	FALSE	156us-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
156	pk-1	156pk-1	Periodic kiln	Periodic kiln	Brick		Natural gas		40		60	tons	0.171	1.50	1.50	us-1	us	FALSE	156us-1
157	dc-1	157dc-1	Tunnel dryer	dryer	Brick	500	Waste heat						7.8			us-1	us	FALSE	157us-1
157	dc-2	157dc-2	Tunnel dryer	dryer	Brick	500	Waste heat						7.8			us-2	us	FALSE	157us-2
157	dr-1	157dr-1	Rotary dryer	Sand dryer	Dried clay/sand	400	Natural gas	20					0.67			sc-2	sc	FALSE	157sc-2
157	DR-2	157DR-2	rotary calciner (dryer)	dryer	Dried clay/sand	400	Natural gas									sc-1	sc	FALSE	157sc-1
157	tk-1	157tk-1	Tunnel kiln	Tunnel kiln	Brick	2200	natural gas/propane						7.8	12.00	12.00	us-3	us	FALSE	157us-3
157	tk-2	157tk-2	Tunnel kiln	Tunnel kiln	Brick	2200	natural gas/propane						7.8	12.00	12.00	us-4	us	FALSE	157us-4
158	dc-1	158dc-1	Tunnel dryer	dryer	Brick	425	Waste heat						4.85			us-1,-2	us	FALSE	158us-1,-2
158	tk-1	158tk-1	Tunnel kiln	Tunnel kiln	Brick	2130	Natural gas	32.5					4.85	6.17	6.17	us-3	us	FALSE	158us-3
159	dc-1	159dc-1	Tunnel dryer	dryer	Structural brick	350	Waste heat						1.12			us-4	us	FALSE	159us-4
159	dc-2	159dc-2	Tunnel dryer	dryer	Structural brick	350	Waste heat						2.24			us-5	us	FALSE	159us-5
159	tk-1	159tk-1	Tunnel kiln	Tunnel kiln	Structural brick	1900	Natural gas	12.25					3.36	3.36	3.36	us-6	us	FALSE	159us-6
16	dc-1	16dc-1	tunnel dryer	dryer	structural brick	400	waste heat						5.49			us-1,-2	us	FALSE	16us-1,-2
16	tk-1	16tk-1	tunnel kiln	tunnel kiln	structural brick	2000	natural gas	30					5.49	6.90	6.90	us-3	us	FALSE	16us-3
160NR	TK-1	160NRTK-1	Tunnel kiln	Tunnel kiln	Brick							Default prod and capacity	6.28	6.28	6.28	US-1	us	FALSE	160NRUS-1
161NR	PK-1	161NRPK-1	Periodic kiln	Periodic kiln	Brick											US-3	us	FALSE	161NRUS-3
161NR	TK-1	161NRTK-1	Tunnel kiln	Tunnel kiln	Brick								1.4	1.47	1.47	US-1	us	FALSE	161NRUS-1
161NR	TK-2	161NRTK-2	Tunnel kiln	Tunnel kiln	Brick								1.4	1.47	1.47	US-2	us	FALSE	161NRUS-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
162NR	TK-1	162NRTK-1	Tunnel kiln	Tunnel kiln	Brick								3.9	3.90	3.90	US-1	us	FALSE	162NRUS-1
162NR	TK-2	162NRTK-2	Tunnel kiln	Tunnel kiln	Brick								2.6	2.60	2.60	US-2	us	FALSE	162NRUS-2
163NR	TK-1	163NRTK-1	Tunnel kiln	Tunnel kiln	Brick								0.31	1.13	1.13	US-1	us	FALSE	163NRUS-1
163NR	TK-2	163NRTK-2	Tunnel kiln	Tunnel kiln	Brick								0.31	1.13	1.13	US-2	us	FALSE	163NRUS-2
163NR	TK-3	163NRTK-3	Tunnel kiln	Tunnel kiln	Brick								0.31	1.13	1.13	US-3	us	FALSE	163NRUS-3
163NR	TK-4	163NRTK-4	Tunnel kiln	Tunnel kiln	Brick								0.31	1.13	1.13	US-4	us	FALSE	163NRUS-4
164NR	TK-1	164NRTK-1	Tunnel kiln	Tunnel kiln	Brick								9.02	10.94	10.94	US-1	us	FALSE	164NRUS-1
165NR	PK-1	165NRPK-1	Periodic kiln	Periodic kiln	Brick											US-4	us	FALSE	165NRUS-4
165NR	TK-1	165NRTK-1	Tunnel kiln	Tunnel kiln	Brick								6.84	8.30	8.30	US-1	us	FALSE	165NRUS-1
165NR	TK-2	165NRTK-2	Tunnel kiln-idle	Tunnel kiln-idle	Brick								0	8.30	8.30	US-2	us	FALSE	165NRUS-2
165NR	TK-3	165NRTK-3	Tunnel kiln-idle	Tunnel kiln-idle	Brick								0	8.30	8.30	US-3	us	FALSE	165NRUS-3
166NR	TK-1	166NRTK-1	Tunnel kiln	Tunnel kiln	Brick								8.94	12.50	12.50	US-1	us	FALSE	166NRUS-1
166NR	TK-2	166NRTK-2	Tunnel kiln-idle	Tunnel kiln-idle	Brick								0	12.50	12.50	US-2	us	FALSE	166NRUS-2
167NR	TK-1	167NRTK-1	Tunnel kiln	Tunnel kiln	Brick								6.6	7.00	7.00	US-1	us	FALSE	167NRUS-1
167NR	TK-2	167NRTK-2	Tunnel kiln	Tunnel kiln	Brick								6.6	7.00	7.00	US-2	us	FALSE	167NRUS-2
168NR	PK-1	168NRPK-1	Periodic kiln	Periodic kiln	Brick											US-2	us	FALSE	168NRUS-2
168NR	TK-1	168NRTK-1	Tunnel kiln	Tunnel kiln	Brick								14.3	17.60	17.60	US-1	us	FALSE	168NRUS-1
169NR	TK-1	169NRTK-1	Tunnel kiln	Tunnel kiln	Brick								5.48	16.20	16.20	US-1	us	FALSE	169NRUS-1
169NR	TK-2	169NRTK-2	Tunnel kiln	Tunnel kiln	Brick								5.48	16.20	16.20	US-2	us	FALSE	169NRUS-2
17	dc-1	17dc-1	Dryer	Dryer	Structural	400	waste heat						10.02			us-2	us	FALSE	17us-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
					tile														
17	tk-1	17tk-1	tunnel kiln	tunnel kiln	structural tile	2000	natural gas	35					10.02	14.83	14.83	us-3	us	FALSE	17us-3
170NR	TK-1	170NRTK-1	Tunnel kiln	Tunnel kiln	Brick								11.83	16.10	16.10	US-1	us	FALSE	170NRUS-1
170NR	TK-2	170NRTK-2	Tunnel kiln	Tunnel kiln	Brick								12.86	17.50	17.50	US-2	us	FALSE	170NRUS-2
171NR	TK-1	171NRTK-1	Tunnel kiln	Tunnel kiln	Brick								10.84	13.10	13.10	US-1	us	FALSE	171NRUS-1
171NR	TK-2	171NRTK-2	Tunnel kiln-idle	Tunnel kiln-idle	Brick								0	11.70	11.70	US-2	us	FALSE	171NRUS-2
172NR	PK-1	172NRPK-1	Shuttle kiln	Periodic kiln	Brick									0.25	0.25	US-3	us	FALSE	172NRUS-3
172NR	TK-1	172NRTK-1	Tunnel kiln	Tunnel kiln	Brick								5.7	11.24	9.00	US-1	us	FALSE	172NRUS-1
172NR	TK-2	172NRTK-2	Tunnel kiln	Tunnel kiln	Brick								9.75	19.76	15.40	US-2	us	FALSE	172NRUS-2
173NR	TK-1	173NRTK-1	Tunnel kiln	Tunnel kiln	Brick								10.51	16.70	16.70	US-1	us	FALSE	173NRUS-1
173NR	TK-2	173NRTK-2	Tunnel kiln-idle	Tunnel kiln-idle	Brick								0	16.70	16.70	US-2	us	FALSE	173NRUS-2
174NR	TK-1	174NRTK-1	Tunnel kiln	Tunnel kiln	Brick								2.89	2.89	2.89	us-1	us	FALSE	174nrus-1
174NR	TK-2	174NRTK-2	Tunnel kiln	Tunnel kiln	Brick								1.78	1.78	1.78	US-2	us	FALSE	174NRUS-2
175nr	tk-1	175nrtk-1	Tunnel kiln	Tunnel kiln	Brick								6	6.00	6.00	us-1	us	FALSE	175nrus-1
176NR	PK-1	176NRPK-1	Periodic kiln	Periodic kiln	Brick											us-4	us	FALSE	176NRUS-4
176NR	TK-1	176NRtk-1	Tunnel kiln	Tunnel kiln	Brick								2.57	2.57	2.57	us-1	us	FALSE	176nrus-1
176NR	TK-2	176NRTK-2	Tunnel kiln	Tunnel kiln	Brick								2.57	2.57	2.57	US-2	us	FALSE	176NRUS-2
176NR	TK-3	176NRTK-3	Tunnel kiln	Tunnel kiln	Brick								5.14	5.14	5.14	US-3	us	FALSE	176NRUS-3
177NR	tk-1	177NRtk-1	Tunnel kiln	Tunnel kiln	Brick							Default prod and capacity	6.28	6.28	6.28	US-1	us	FALSE	177NRUS-1

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
177NR	TK-2	177NRTK-2	Tunnel kiln	Tunnel kiln	Brick							Default prod and capacity	6.28	6.28	6.28	US-2	us	FALSE	177NRUS-2
178NR	TK-1	178NRTK-1	Tunnel kiln	Tunnel kiln	Brick								2.25	2.25	2.25	US-1	us	FALSE	178NRUS-1
179	DC-1	179DC-1	Dryer	Dryer	Face brick	248	Natural gas	9					1.27			us-4	us	FALSE	179us-4
179	PK-1	179PK-1	Periodic kiln	Periodic kiln	Face brick	2340	Natural gas	5.2					0.317	0.43	0.43	us-1	us	FALSE	179us-1
179	PK-2	179PK-2	Periodic kiln	Periodic kiln	Face brick	2440	Natural gas	5.2					0.317	0.43	0.43	us-2	us	FALSE	179US-2
179	PK-3	179PK-3	Periodic kiln	Periodic kiln	Face brick	2340	Natural gas	5.2					0.317	0.43	0.43	US-3	us	FALSE	179US-3
179	PK-4	179PK-4	Periodic kiln	Periodic kiln	Face brick	2440	Natural gas	5.2					0.317	0.43	0.43	US-2	us	FALSE	179US-2
18	dc-1	18dc-1	Dryer	Dryer	Brick	270	waste heat						4.34			us-2	us	FALSE	18us-2
18	dc-2	18dc-2	Dryer	Dryer	Brick	270	waste heat						4.33			us-3	us	FALSE	18us-3
18	tk-1	18tk-1	tunnel kiln	tunnel kiln	brick	1850	natural gas						8.67	14.70	14.70	us-1	us	FALSE	18us-1
180NR	pk-1	180nrpk-1	Periodic kiln	Periodic kiln	Brick											da-1	da	FALSE	180NRda-1
181	DC-1	181DC-1	ware dryer	dryer	roof tile		Natural gas									us-4	us	FALSE	181us-4
181	DC-2	181DC-2	ware dryer	dryer	roof tile		Natural gas									US-5	us	FALSE	181US-5
181	DC-3	181DC-3	ware dryer	dryer	roof tile		Natural gas									US-6	us	FALSE	181US-6
181	DC-4	181DC-4	ware dryer	dryer	roof tile		Natural gas									US-7	us	FALSE	181US-7
181	DC-5	181DC-5	ware dryer	dryer	roof tile		Natural gas									US-8	us	FALSE	181US-8
181	DC-6	181DC-6	ware dryer	dryer	roof tile		Natural gas									US-9	us	FALSE	181US-9
181	DC-7	181DC-7	ware dryer	dryer	roof tile		Natural gas									US-10	us	FALSE	181US-10
181	pk-1	181pk-1	Periodic kiln	Periodic kiln	roof tile		Natural gas									us-2	us	FALSE	181us-2
181	pk-2	181pk-2	Periodic kiln	Periodic kiln	roof tile		Natural gas									us-3	us	FALSE	181us-3
181	tk-1	181tk-1	Tunnel kiln	Tunnel kiln	roof tile		Natural gas							7.78	7.78	us-1	us	FALSE	181us-1
182NR	TK-1	182NRTK-1	Tunnel kiln	Tunnel kiln	Brick								1.69	2.92	2.92	US-1	us	FALSE	182NRUS-1
183	pk-1	183pk-1	Periodic kiln	periodic kiln	tile	2000	Natural gas						0.002	0.00	0.00	us-1	us	FALSE	183us-1
184	dc-1	184dc-1	Dryer	dryer	quarry floor tile	248	Natural gas	3					7			us-1	us	FALSE	184us-1

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
184	dc-2	184dc-2	Dryer	dryer	quarry floor tile	248	Natural gas	3					3.5			us-2	us	FALSE	184us-2
184	pk-1	184pk-1	intermittent kiln	periodic kiln	wall tile	2100	Natural gas	0.425	24		0.1		0.00063	0.00	0.00	us-6	us	FALSE	184us-6
184	pk-2	184pk-2	intermittent kiln	periodic kiln	wall tile	2100	Natural gas	3	24		2		0.0125	0.01	0.01	us-4	us	FALSE	184us-4
184	pk-3	184pk-3	intermittent kiln	periodic kiln	wall tile	2100	Natural gas	0.425	24		0.1		0.00063	0.00	0.00	us-5	us	FALSE	184us-5
184	tk-1	184tk-1	Tunnel kiln	tunnel kiln	quarry floor tile	2100	Natural gas	11.2					2.69	3.33	3.33	us-3	us	FALSE	184us-3
184	tk-2	184tk-2	Tunnel kiln	tunnel kiln	quarry floor tile	2100	Natural gas	11.2					2.69	3.33	3.33	us-3	us	FALSE	184us-3
184	tk-3	184tk-3	Tunnel kiln	tunnel kiln	quarry floor tile	2100	Natural gas	11.2					2.69	3.33	3.33	us-3	us	FALSE	184us-3
184	tk-4	184tk-4	Tunnel kiln	tunnel kiln	quarry floor tile								2.69	3.33	3.33	us-3	us	FALSE	184us-3
185	dc-1	185dc-1	dryer continuous	dryer	floor tile	125	Waste heat						0.5			fe	us	FALSE	185fe
185	dp-2	185dp-2	Dryer	dryer	floor tile	250	Natural gas		8		10					us-1	us	FALSE	185us-1
185	pk-1	185pk-1	Periodic kiln	periodic kiln	floor tile	2000	Natural gas		156		40		0.25	0.25	0.25	us-2,-7	us	FALSE	185us-2,-7
185	pk-2	185pk-2	Periodic kiln	periodic kiln	floor tile	2000	Natural gas		156		15		0.096	0.10	0.10	us-3,-8	us	FALSE	185us-3,-8
185	pk-3	185pk-3	shuttle kiln	periodic kiln	floor tile	2100	Natural gas		36		2.5		0.069	0.07	0.07	us-5	us	FALSE	185us-5
185	pk-4	185pk-4	shuttle kiln	periodic kiln	floor tile	2100	Natural gas		36		1.5		0.042	0.04	0.04	us-6	us	FALSE	185us-6
185	tk-1	185tk-1	Tunnel kiln	tunnel kiln	floor tile	2100	Natural gas						0.16	0.28	0.28	us-4	us	FALSE	185us-4
186	dc-1	186dc-1	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-1	us	FALSE	186us-1
186	dc-2	186dc-2	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-2	us	FALSE	186us-2
186	dc-3	186dc-3	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-3	us	FALSE	186us-3
186	dc-4	186dc-4	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-4	us	FALSE	186us-4
186	dc-5	186dc-5	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-5	us	FALSE	186us-5
186	dc-6	186dc-6	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-6	us	FALSE	186us-6
186	dc-7	186dc-7	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-7	us	FALSE	186us-7
186	dc-8	186dc-8	Dryer	dryer	tile, brick	180	Waste heat						0.7			us-8	us	FALSE	186us-8
186	tk-1	186tk-1	Tunnel kiln	tunnel kiln	tile, brick	1925	Natural gas	7.5					0.6	1.11	1.11	us-9	us	FALSE	186us-9
186	tk-2	186tk-2	Tunnel kiln	tunnel kiln	tile, brick	1925	Natural gas	7.5					0.67	1.24	1.24	us-10	us	FALSE	186kus-10
186	tk-3	186tk-3	Tunnel kiln	tunnel kiln	tile, brick	1925	Natural gas	7.5					0.6	1.11	1.11	us-11	us	FALSE	186us-11

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
186	tk-4	186tk-4	Tunnel kiln	tunnel kiln	tile, brick	1925	Natural gas	7.5					0.6	1.11	1.11	us-12	us	FALSE	186us-12
187	dc-1	187dc-1	car dryer	dryer	glazed tile	350	Natural gas,waste heat						1.75			us-1	us	FALSE	187us-1
187	dc-2	187dc-2	tray dryer	dryer	glazed tile	350	Natural gas						1.75			fe	us	FALSE	187fe
187	dc-3	187dc-3	waste heat dryer	dryer	floor tile	270	waste heat						2.2			us-3	us	FALSE	187us-3
187	dc-4	187dc-4	waste heat dryer	dryer	floor tile	270	waste heat						2.2			us-4	us	FALSE	187us-4
187	dc-5	187dc-5	waste heat dryer	dryer	floor tile	270	waste heat						2.2			us-5	us	FALSE	187us-5
187	rk-1	187rk-1	roller kiln	tunnel kiln	glazed tile	2015	Natural gas						0.51	1.24	1.24	us-2	us	FALSE	187us-2
187	tk-1	187tk-1	Tunnel kiln	tunnel kiln	floor tile	1875	Natural gas	7.5					2.14	5.22	5.22	us-6	us	FALSE	187us-6
187	tk-2	187tk-2	Tunnel kiln-idle	tunnel kiln-idle	floor tile								0	5.00	5.00	us-7	us	FALSE	187us-7
187	tk-3	187tk-3	Tunnel kiln	tunnel kiln	floor tile	1875	Natural gas	7.2					1.84	4.49	4.49	us-8	us	FALSE	187us-8
188	dp-1	188dp-1	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-3	us	FALSE	188us-3
188	dp-10	188dp-10	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-4	us	FALSE	188us-4
188	dp-11	188dp-11	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-4	us	FALSE	188us-4
188	dp-12	188dp-12	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-4	us	FALSE	188us-4
188	dp-13	188dp-13	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-5	us	FALSE	188us-5
188	dp-14	188dp-14	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-5	us	FALSE	188us-5
188	dp-15	188dp-15	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-5	us	FALSE	188kus-5
188	dp-16	188dp-16	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-5	us	FALSE	188us-5
188	dp-17	188dp-17	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-5	us	FALSE	188us-5
188	dp-18	188dp-18	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-5	us	FALSE	188us-5
188	dp-2	188dp-2	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-3	us	FALSE	188us-3
188	dp-3	188dp-3	storage	dryer	quarry tile	225	Waste heat		38		9.4					us-3	us	FALSE	188us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			dryer																
188	dp-4	188dp-4	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-3	us	FALSE	188us-3
188	dp-5	188dp-5	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-3	us	FALSE	188us-3
188	dp-6	188dp-6	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-3	us	FALSE	188us-3
188	dp-7	188dp-7	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-4	us	FALSE	188us-4
188	dp-8	188dp-8	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-4	us	FALSE	188us-4
188	dp-9	188dp-9	storage dryer	dryer	quarry tile	225	Waste heat		38		9.4					us-4	us	FALSE	188us-4
188	tk-1	188tk-1	Tunnel kiln	tunnel kiln	quarry tile	2250	Natural gas	12.9					2.6	3.56	3.56	us-7,-8	us	FALSE	188us-7,-8
188	tk-2	188tk-2	Tunnel kiln	tunnel kiln	quarry tile	2250	Natural gas	12.9					2.6	3.56	3.56	us-8,-9	us	FALSE	188us-8,-9
189	dc-1	189dc-1	chamber dryer	dryer	quarry tile	175	Waste heat						1.4			us-1	us	FALSE	189us-1
189	dc-2	189dc-2	chamber dryer	dryer	quarry tile	175	Waste heat						1.2			us-2	us	FALSE	189us-2
189	dc-3	189dc-3	mangle dryer	dryer	quarry tile	180	Waste heat, natural gas	0.25					0.6			us-3	us	FALSE	189us-3
189	dc-4	189dc-4	mangle dryer	dryer	quarry tile	180	Waste heat, natural gas	0.25					0.6			us-3	us	FALSE	189us-3
189	dc-5	189dc-5	mangle dryer	dryer	quarry tile	180	Waste heat, natural gas	0.25					0.6			us-3	us	FALSE	189us-3
189	dc-6	189dc-6	mangle dryer	dryer	quarry tile	180	Waste heat, natural gas	0.25					0.6			us-4	us	FALSE	189us-4
189	dc-7	189dc-7	mangle dryer	dryer	quarry tile	180	Waste heat, natural gas	0.25					0.6			us-4	us	FALSE	189us-4
189	dc-8	189dc-8	mangle dryer	dryer	quarry tile	180	Waste heat, natural gas	0.25					0.6			us-4	us	FALSE	189us-4
189	dp-1	189dp-1	chamber dryer	dryer	quarry tile	180	Natural gas	0.25	24		1200					us-13	us	FALSE	189us-13
189	misc-4	189misc-4	preheater	predryer	quarry tile	300	Waste heat	0.25					1.4			fe	us	FALSE	189fe
189	misc-5	189misc-5	preheater	predryer	quarry tile	300	Waste heat	0.25					1.2			fe	us	FALSE	189fe
189	misc-6	189misc-6	preheater	predryer	quarry tile	300	Waste heat	0.25					1.7			fe	us	FALSE	189fe
189	misc-7	189misc-7	preheater	predryer	quarry tile	300	Waste heat	0.25					1.8			fe	us	FALSE	189fe

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
189	tk-1	189tk-1	Tunnel kiln	tunnel kiln	quarry tile	2100	Natural gas	9.6					1.4	1.40	1.40	us-8	us	FALSE	189us-8
189	tk-2	189tk-2	Tunnel kiln	tunnel kiln	quarry tile	2100	Natural gas	9.6					1.2	1.20	1.20	us-9	us	FALSE	189us-9
189	tk-3	189tk-3	Tunnel kiln	tunnel kiln	quarry tile	2150	Natural gas	12					1.7	1.70	1.70	us-10	us	FALSE	189us-10
189	tk-4	189tk-4	Tunnel kiln	tunnel kiln	quarry tile	2000	Natural gas	10					1.8	1.80	1.80	us-11	us	FALSE	189us-11
19	dc-1	19dc-1	Dryer	Dryer	Brick	400	waste heat						3.03			us-1	us	FALSE	19us-1
19	dc-2	19dc-2	Dryer	Dryer	Brick	400	waste heat						3.03			us-2	us	FALSE	19us-2
19	dc-3	19dc-3	Dryer	Dryer	Brick	400	waste heat						7.12			us-3	us	FALSE	19us-3
19	dc-4	19dc-4	Dryer	Dryer	Brick	400	waste heat						7.12			us-4	us	FALSE	19us-4
19	tk-1	19tk-1	tunnel kiln	tunnel kiln	brick	2100	other-landfill gas	20					3.03	3.62	3.62	us-5	us	FALSE	19us-5
19	tk-2	19tk-2	tunnel kiln	tunnel kiln	brick	2100	other-landfill gas	20					3.03	3.62	3.62	us-6	us	FALSE	19us-6
19	tk-3	19tk-3	tunnel kiln	tunnel kiln	brick	2100	natural gas	23					7.12	11.75	8.51	us-7	us	FALSE	19us-7
19	tk-4	19tk-4	tunnel kiln	tunnel kiln	brick	2100	natural gas	23					7.12	11.75	8.51	us-8	us	FALSE	19us-8
2	dc-1	2dc-1	Dryer	Dryer	Brick	350	waste Heat						3.4			us-1	us	FALSE	2us-1
2	tk-1	2tk-1	tunnel Kiln	tunnel Kiln	brick	1950	Natural gas						3.4	3.40	3.40	us-2	us	FALSE	2us-2
20	dc-1	20dc-1	tunnel dryer	dryer	structural brick	300	natural gas	6					6.4			us-3 to us-5	us	FALSE	20us-3 to us-5
20	dc-2	20dc-2	roller kiln dryer	Dryer	structural brick	300	natural gas	6					0			us-11 to us-18	us	FALSE	20us-11 to us-18
20	tk-1	20tk-1	tunnel kiln	tunnel kiln	structural brick	1930	natural gas	40					6.4	10.40	6.40	us-1,-2	us	FALSE	20us-1,-2
20	tk-2	20tk-2	roller kiln	tunnel kiln-idle	structural brick	1930	natural gas	17.4					0	3.97	3.97	us-7 to us-9	us	FALSE	20us-7 to us-9
21	misc-1 to misc-4	21misc-1 to misc-4	drying room	predryer	tile brick	180	natural gas									fe-2	us	FALSE	21fe-2
21	pk-1	21pk-1	periodic kiln	periodic kiln	tile, brick	1650	natural gas	3.9	144		450	tons	0.142	0.19	0.19	us-1	us	FALSE	21us-1
21	pk-2	21pk-2	periodic kiln	periodic kiln	tile, brick	1650	natural gas	3.9	144		450	tons	0.142	0.19	0.19	us-2	us	FALSE	21us-2
21	pk-3	21pk-3	periodic kiln	periodic kiln	tile, brick	1650	natural gas	3.9	144		450	tons	0.142	0.19	0.19	us-3	us	FALSE	21us-3
21	pk-4	21pk-4	periodic kiln	periodic kiln	tile, brick	1650	natural gas	3.9	144		450	tons	0.142	0.19	0.19	us-4	us	FALSE	21us-4
21	pk-5	21pk-5	periodic kiln	periodic kiln	tile, brick	1650	natural gas	3.9	144		450	tons	0.142	0.19	0.19	us-5	us	FALSE	21us-5
21	pk-6	21pk-6	periodic kiln	periodic kiln	tile, brick	1650	natural gas	3.9	144		450	tons	0.142	0.19	0.19	us-6	us	FALSE	21us-6
22	dc-1	22dc-1	Dryer	Dryer	Face brick	350	waste heat						6.65			us-3	us	FALSE	22us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
22	dc-2	22dc-2	Dryer	Dryer	Face brick	350	waste heat						1.7			us-4	us	FALSE	22us-4
22	tk-1	22tk-1	tunnel kiln	tunnel kiln	face brick	1900	natural gas						6.65	9.34	9.34	us-1	us	FALSE	22us-1
22	tk-2	22tk-2	tunnel kiln	tunnel kiln	face brick	1900	natural gas						1.7	2.39	2.39	us-2	us	FALSE	22us-2
23	dc-1	23dc-1	Dryer	Dryer	brick and tile	350	Waste heat						3.41			us-13	us	FALSE	23us-13
23	dc-2	23dc-2	Dryer	Dryer	brick and tile	350	Waste heat						3.41			us-15	us	FALSE	23us-15
23	dc-3	23dc-3	dryer	dryer	brick and tile	350	Waste heat						3.41			us-14	us	FALSE	23us-14
23	MISC-1	23MISC-1	Roller kiln (Glaze set kiln)	Glaze set kiln	glazed brick and tile	2000	natural gas	1.7					1.2			us-12	us	FALSE	23us-12
23	pk-1	23pk-1	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	6.25	288		100	tons	0	1.20	1.20	us-4	us	FALSE	23us-4
23	pk-2	23pk-2	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	6.25	288		100	tons	0	1.20	1.20	us-5	us	FALSE	23us-5
23	pk-3	23pk-3	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	6.25	288		100	tons	0	1.20	1.20	us-6	us	FALSE	23us-6
23	pk-4	23pk-4	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	12.5	288		200	tons	0	1.20	1.20	us-7	us	FALSE	23us-7
23	pk-5	23pk-5	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	12.5	288		200	tons	0	1.20	1.20	us-7	us	FALSE	23us-7
23	pk-6	23pk-6	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	6.25	288		100	ton	0	1.20	1.20	us-8	us	FALSE	23us-8
23	pk-7	23pk-7	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	6.25	288		100	tons	0	1.20	1.20	us-9	us	FALSE	23us-9
23	pk-8	23pk-8	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	6.25	288		100	tons	0	1.20	1.20	us-10	us	FALSE	23us-10
23	pk-9	23pk-9	periodic kiln-idle	periodic kiln-idle	brick	2200	natural gas	6.25	288		100	tons	0	1.20	1.20	us-11	us	FALSE	23us-11
23	tk-1	23tk-1	tunnel kiln	tunnel kiln	brick and tile	2200	natural gas	13.5					3.83	6.40	6.40	us-1	us	FALSE	23us-1
23	tk-2	23tk-2	tunnel kiln	tunnel kiln	brick and tile	2200	natural gas	13.5					3.83	6.40	6.40	us-2	us	FALSE	23us-2
23	tk-3	23tk-3	tunnel kiln	tunnel kiln	brick and tile	2200	natural gas	13.5					3.83	6.40	6.40	us-3	us	FALSE	23us-3
24	dc-1	24dc-1	tunnel dryer	dryer	brick pavers	600	waste heat						0.92			us-1	us	FALSE	24us-1
24	dc-2	24dc-2	tunnel dryer	dryer	quarry	302	waste heat						1			us-3	us	FALSE	24us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
					tile, brick coping														
24	tk-1	24tk-1	tunnel kiln	tunnel kiln	brick pavers	2040	natural gas						0.85	0.90	0.90	us-2	us	FALSE	24us-2
24	tk-2	24tk-2	tunnel kiln	tunnel kiln	quarry tile, brick coping	2102	natural gas						0.95	1.00	1.00	us-4	us	FALSE	24us-4
25	dc-1	25dc-1	Dryer	Dryer	Brick	400	waste heat						3.3			us-1	us	FALSE	25us-1
25	dc-2	25dc-2	Dryer	Dryer	Brick	400	waste heat						3.3			us-2	us	FALSE	25us-2
25	dc-3	25dc-3	Dryer	Dryer	Brick	400	waste heat						4			us-3	us	FALSE	25us-3
25	dc-4	25dc-4	Dryer	Dryer	Brick	400	waste heat						5.7			us-4	us	FALSE	25us-4
25	dc-5	25dc-5	Dryer	Dryer	Brick	400	waste heat						5.7			us-5	us	FALSE	25us-5
25	dr-1	25dr-1	rotary dryer	Sand dryer	sand		waste heat						0.42			SC-1,US-11	sc	FALSE	25SC-1,US-11
25	tk-1	25tk-1	tunnel kiln	tunnel kiln	Brick	1960	natural gas						3.3	4.40	4.40	us-10	us	FALSE	25us-10
25	tk-2	25tk-2	tunnel kiln	tunnel kiln	brick	1960	natural gas						3.3	4.40	4.40	us-9	us	FALSE	25us-9
25	tk-3	25tk-3	tunnel kiln	tunnel kiln	brick	1960	natural gas						4	5.33	5.33	us-8	us	FALSE	25us-8
25	tk-4	25tk-4	tunnel kiln	tunnel kiln	brick	1960	natural gas						5.7	7.60	7.60	us-7	us	FALSE	25us-7
25	tk-5	25tk-5	tunnel kiln	tunnel kiln	brick	1960	natural gas						5.7	7.60	7.60	us-6	us	FALSE	25us-6
25	tk-6	25tk-6	tunnel kiln	tunnel kiln	brick		natural gas	45.6					18.2	22.80		da-1	da	FALSE	25da-1
26	dc-1	26dc-1	Dryer	Dryer	Face brick	450	waste heat						11.2			us-1	us	FALSE	26us-1
26	dr-1	26dr-1	rotary dryer	Sand dryer	sand		natural gas									us-3	us	FALSE	26us-3
26	tk-1	26tk-1	tunnel kiln	tunnel kiln	face brick	1950	natural gas						11.2	13.45	13.45	us-2	us	FALSE	26us-2
27	dc-1	27dc-1	Dryer	Dryer	Brick	290	waste heat						7.7			us-1	us	FALSE	27us-1
27	tk-1	27tk-1	tunnel kiln	tunnel kiln	brick	2000	natural gas						7.7	10.50	8.40	us-2	us	FALSE	27us-2
27	tk-2	27tk-2	tunnel kiln	tunnel kiln	brick		natural gas						10.5	10.50		us	us	FALSE	27us
28	dc-1	28dc-1	Dryer	Dryer	Brick	320	waste heat						6.9			us-2	us	FALSE	28us-2
28	tk-1	28tk-1	tunnel kiln	tunnel kiln	brick	1950	natural gas						6.9	8.24	8.24	us-1	us	FALSE	28us-1
29	dc-1	29dc-1	Dryer	Dryer	Brick	375	waste heat						5			us-2	us	FALSE	29us-2
29	tk-1	29tk-1	tunnel kiln	tunnel kiln	brick	1970	natural gas						5	5.00	5.00	us-1	us	FALSE	29us-1
3	dc-1	3dc-1	Dryer-idle	Dryer-idle	common brick	300	Waste heat						0			us-1	us	FALSE	3us-1
3	tk-1	3tk-1	tunnel kiln-idle	tunnel kiln-idle	common brick	1950	natural gas						0	9.90	9.90	us-2	us	FALSE	3us-2
30	dc-1	30dc-1	Dryer	Dryer	Brick	375	waste heat						5.9			us-3	us	FALSE	30us-3
30	dc-2	30dc-2	Dryer	Dryer	Brick	375	waste heat						7.8			us-4	us	FALSE	30us-4
30	tk-1	30tk-1	tunnel kiln	tunnel kiln	brick	1970	natural gas						5.9	5.96	5.96	us-1	us	FALSE	30us-1
30	tk-2	30tk-2	tunnel kiln	tunnel kiln	brick	1970	natural gas						7.8	7.87	7.87	us-2	us	FALSE	30us-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
31	dc-1	31dc-1	Dryer	Dryer	Brick	400	waste heat						4.75			us-1	us	FALSE	31us-1
31	dc-2	31dc-2	Dryer	Dryer	Brick	400	waste heat						4.75			us-2	us	FALSE	31us-2
31	dc-3	31dc-3	Dryer	Dryer	Brick	400	waste heat						4.75			us-3	us	FALSE	31us-3
31	dc-4	31dc-4	Dryer	Dryer	Brick	400	waste heat						4.75			us-4	us	FALSE	31us-4
31	dc-5	31dc-5	Dryer	Dryer	Brick	400	waste heat						4.75			us-7	us	FALSE	31us-7
31	dc-6	31dc-6	Dryer	Dryer	Brick	400	waste heat						4.75			us-8	us	FALSE	31us-8
31	dc-7	31dc-7	Dryer	Dryer	Brick	400	waste heat						4.75			us-9	us	FALSE	31us-9
31	dc-8	31dc-8	Dryer	Dryer	Brick	400	waste heat						4.75			us-10	us	FALSE	31us-10
31	tk-1	31tk-1	tunnel kiln	tunnel kiln	brick	1900	Coal						9.5	11.30	11.30	us-5	us	FALSE	31us-5
31	tk-2	31tk-2	tunnel kiln	tunnel kiln	brick	1900	Coal						9.5	11.30	11.30	us-6	us	FALSE	31us-6
31	tk-3	31tk-3	tunnel kiln	tunnel kiln	brick	1900	natural gas						9.5	11.30	11.30	da-1	da	FALSE	31da-1
31	tk-4	31tk-4	tunnel kiln	tunnel kiln	brick	1900	natural gas						9.5	11.30	11.30	da-1	da	FALSE	31da-1
32	dc-1	32dc-1	Dryer	Dryer	Brick	400	waste heat						1.93			us-1	us	FALSE	32us-1
32	dc-2	32dc-2	Dryer	Dryer	Brick	400	waste heat						1.93			us-2	us	FALSE	32us-2
32	dc-3	32dc-3	Dryer	Dryer	Brick	400	waste heat						1.93			us-3	us	FALSE	32us-3
32	dc-4	32dc-4	Dryer	Dryer	Brick	400	waste heat						1.93			us-4	us	FALSE	32us-4
32	dc-5	32dc-5	Dryer	Dryer	Brick	400	waste heat						1.93			us-5	us	FALSE	32us-5
32	dc-6	32dc-6	Dryer	Dryer	Brick	400	waste heat						1.93			us-6	us	FALSE	32us-6
32	dc-7	32dc-7	Dryer	Dryer	Brick	400	waste heat						1.93			us-7	us	FALSE	32us-7
32	dc-8	32dc-8	Dryer	Dryer	Brick	400	waste heat						1.93			us-8	us	FALSE	32us-8
32	tk-1	32tk-1	tunnel kiln	tunnel kiln	brick	1900	natural gas						4.63	7.77	7.77	us-9	us	FALSE	32us-9
32	tk-2	32tk-2	tunnel kiln	tunnel kiln	brick	1900	natural gas						5.4	9.06	9.06	us-10	us	FALSE	32us-10
32	tk-3	32tk-3	tunnel kiln	tunnel kiln	brick	1900	natural gas						5.4	9.06	9.06	us-11	us	FALSE	32us-11
33	dc-1	33dc-1	Dryer	Dryer	Brick		waste heat									fe-4, us-7	us	FALSE	33fe-4, us-7
33	pk-1	33pk-1	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-1	us	FALSE	33us-1
33	pk-10	33pk-10	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-5	us	FALSE	33us-5
33	pk-11	33pk-11	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-6	us	FALSE	33us-6
33	pk-2	33pk-2	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-1	us	FALSE	33us-1
33	pk-3	33pk-3	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-2	us	FALSE	33us-2
33	pk-4	33pk-4	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-2	us	FALSE	33us-2
33	pk-5	33pk-5	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-3	us	FALSE	33us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
33	pk-6	33pk-6	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-3	us	FALSE	33us-3
33	pk-7	33pk-7	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-4	us	FALSE	33us-4
33	pk-8	33pk-8	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-4	us	FALSE	33us-4
33	pk-9	33pk-9	periodic kiln	periodic kiln	brick	1850	coal/sawdust		176	208	116	tons	0.237	0.26	0.26	us-5	us	FALSE	33us-5
34	dc-1	34dc-1	Brick dryer	dryer	Face brick	350	waste heat						3.8			us-1	us	FALSE	34us-1
34	DC-2	34DC-2	Brick dryer	dryer	Face brick	350	Waste heat						3.8			US-2	us	FALSE	34US-2
34	dc-3	34dc-3	Brick dryer	dryer	Face brick	350	waste heat						7			us-3,-4	us	FALSE	34us-3,-4
34	tk-1	34tk-1	tunnel kiln	tunnel kiln	face brick	2130	natural gas						3.3	3.30	3.30	us-5,-6	us	FALSE	34us-5,-6
34	tk-2	34tk-2	tunnel kiln	tunnel kiln	face brick	2130	natural gas						6.1	6.10	6.10	us-7,-8	us	FALSE	34us-7,-8
34	tk-3	34tk-3	tunnel kiln	tunnel kiln	face brick		natural gas						14.6	18.30		DA-1	da	FALSE	34da-1
35	dc-1	35dc-1	Dryer	Dryer	Face brick	400	waste heat						8.33			us-3	us	FALSE	35us-3
35	dc-2	35dc-2	Dryer	Dryer	Face brick	400	waste heat						8.33			us-4	us	FALSE	35us-4
35	tk-1	35tk-1	tunnel kiln	tunnel kiln	face brick	2000	natural gas	23.5					8.33	8.57	8.57	us-1	us	FALSE	35us-1
35	tk-2	35tk-2	tunnel kiln	tunnel kiln	face brick	2000	natural gas	23.5					8.33	8.57	8.57	us-2	us	FALSE	35us-2
36	dc-1	36dc-1	Dryer	Dryer	Face brick	400	waste heat						2.35			us-1	us	FALSE	36us-1
36	dc-2	36dc-2	Dryer	Dryer	Face brick	400	waste heat						2.35			us-2	us	FALSE	36us-2
36	dc-3	36dc-3	Dryer	Dryer	Face brick	400	waste heat						2.35			us-3	us	FALSE	36us-3
36	dc-4	36dc-4	Dryer	Dryer	Face brick	400	waste heat						2.35			us-4	us	FALSE	36us-4
36	tk-1	36tk-1	Tunnel kiln	Tunnel kiln	Face brick	2050	Natural gas	21.33					9.39	10.00	10.00	US-5	us	FALSE	36US-5
36	tk-2	36tk-2	Tunnel kiln	Tunnel kiln	Face brick		Natural gas						9.39	10.00		DA-1	da	FALSE	36da-1
37	dc-1	37dc-1	Dryer	Dryer	Face brick	400	waste heat						7.31			us-1	us	FALSE	37us-1
37	tk-1	37tk-1	tunnel kiln	tunnel kiln	face brick	2000	natural gas	18					7.31	7.79	7.79	us-2	us	FALSE	37us-2
38	DP-1	38DP-1	Dryer	Dryer	Brick	165	Natural gas		72		68	tons				US-1	us	FALSE	38US-1
38	DP-2	38DP-2	Dryer	Dryer	Brick	165	Natural gas		72		68	tons				US-1	us	FALSE	38US-1
38	DP-3	38DP-3	Dryer	Dryer	Brick	165	Natural gas		72		68	tons				US-1	us	FALSE	38US-1
38	DP-4	38DP-4	Dryer	Dryer	Brick	165	Natural gas		72		68	tons				US-1	us	FALSE	38US-1
38	pk-1	38pk-1	periodic kiln	periodic kiln	brick	1975	natural gas		42		57	tons	0.66	0.66	0.66	us-2	us	FALSE	38us-2
38	pk-2	38pk-2	periodic kiln	periodic kiln	brick	1975	natural gas		52		215	tons	0.66	0.66	0.66	us-3	us	FALSE	38us-3
38	pk-3	38pk-3	Periodic kiln-idle	Periodic kiln-idle	Brick		Natural gas						0	0.66	0.66	US-4	us	FALSE	38us-4
39	dc-1	39dc-1	Dryer	Dryer	Structural tile	400	waste heat						2.9			us-1,-2	us	FALSE	39us-1,-2
39	tk-1	39tk-1	tunnel kiln	tunnel kiln	structural	2120	natural gas	10					2.9	3.09	3.09	us-3	us	FALSE	39us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
					tile														
4	dc-1	4dc-1	tunnel dryer	dryer	common brick	250	waste heat						3.42			us-1	us	FALSE	4us-1
4	misc-1 - misc-9	4misc-1 - misc-9	drying room	predryer	common brick	130	natural gas			36-240	1600	tons				fe-6 - fe-14	us	FALSE	4fe-6 - fe-14
4	tk-1	4tk-1	tunnel kiln	tunnel kiln	common brick	1900	natural gas						3.42	6.84	6.84	us-2	us	FALSE	4us-2
40	dc-1	40dc-1	Dryer	Dryer	Structural tile	400	waste heat						3.88			us-1,-2	us	FALSE	40us-1,-2
40	ds-1	40ds-1	sawdust dryer	sawdust dryer	sawdust	200	Waste heat									us-4	us	FALSE	40us-4
40	tk-1	40tk-1	Tunnel kiln/partial sd	Tunnel kiln	structural tile	2000	sawdust/natural gas						3.88	3.88	3.88	us-3,dps-1	us,dps	FALSE	40us-3,dps-1
41	dc-1	41dc-1	Dryer	Dryer	Face brick	340	waste heat/natural gas	1.48					5.97			us-1	us	FALSE	41us-1
41	dc-2	41dc-2	Dryer	Dryer	Face brick	340	waste heat/natural gas	1.48					5.98			us-2	us	FALSE	41us-2
41	tk-1	41tk-1	tunnel kiln	tunnel kiln	face brick	1930	natural gas	20.2					11.95	15.53	15.53	us-3	us	FALSE	41us-3
41	tk-2	41tk-2	tunnel kiln	tunnel kiln	face brick		natural gas						4.27	15.96		us	us	FALSE	41us
42	dc-1	42dc-1	tunnel dryer	dryer	structural brick	325	waste heat/natural gas						3.42			us-1	us	FALSE	42us-1
42	tk-1	42tk-1	tunnel kiln	tunnel kiln	structual brick	1900	natural gas						3.42	12.00	12.00	us-2	us	FALSE	42us-2
43	dc-1	43dc-1	tunnel dryer	dryer	face brick	350	waste heat						4.97			us-1	us	FALSE	43us-1
43	dr-1	43dr-1	rotary dryer	Sand dryer	sand/dirt/clay/shale	350	natural gas		15	hr/wk	0.7	hr				us-4	us	FALSE	43us-4
43	ds-1	43ds-1	dryer/cyclone	sawdust dryer	sawdust	450	Waste heat									us-3	us	FALSE	43us-3
43	tk-1	43tk-1	Tunnel kiln/partial sd	Tunnel kiln	face brick	1950	sawdust/natural gas	33.73					4.97	6.69	6.69	us-2,dps-1	us,dps	FALSE	43us-2,dps-1
44	dc-1	44dc-1	Dryer	Dryer	structural brick	375	waste heat						2.4			us-1	us	FALSE	44us-1
44	tk-1	44tk-1	tunnel kiln	tunnel kiln	structural brick	1920	natural gas	5.6					2.4	2.48	2.48	us-2	us	FALSE	44us-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
45	dc-1	45dc-1	Dryer	Dryer	Brick	350	waste heat						5.32			us-1	us	FALSE	45us-1
45	tk-1	45tk-1	tunnel kiln	tunnel kiln	brick	1875	natural gas	9.375					2.66	3.78	3.78	us-2	us	FALSE	45us-2
45	tk-2	45tk-2	tunnel kiln	tunnel kiln	brick	1875	natural gas	9.375					2.66	3.78	3.78	us-3	us	FALSE	45us-3
46	dc-1	46dc-1	Brick dryer	dryer	shale, clay	400	waste heat						2.85			us-2	us	FALSE	46us-2
46	dc-2	46dc-2	Brick dryer	dryer	shale clay	400	waste heat						2.85			us-3	us	FALSE	46us-3
46	dc-3	46dc-3	Brick dryer	dryer	shale, clay	400	waste heat						2.85			us-4	us	FALSE	46us-4
46	dr-1	46dr-1	sand dryer	sand dryer	sand, clay, shale		natural gas									us-5	us	FALSE	46us-5
46	ds-1	46ds-1	sawdust dryer	sawdust dryer	sawdust	520	Waste heat						2.57			us-6	us	FALSE	46us-6
46	tk-1	46tk-1	Tunnel kiln/partial sd	Tunnel kiln	structural brick	2000	sawdust						8.55	9.79	9.79	us-1,dps-1	us,dps	FALSE	46us-1,dps-1
47	dc-1	47dc-1	dryer	dryer	brick	320	waste heat						3.47			us-1	us	FALSE	47us-1
47	dc-3	47dc-3	Dryer	Dryer	brick		waste heat						3.47			us-2	us	FALSE	47us-2
47	tk-1	47tk-1	tunnel kiln	tunnel kiln	brick	2050	natural gas						3.47	4.40	4.40	da-1	da	FALSE	47da-1
47	tk-3	47tk-3	tunnel kiln	tunnel kiln	brick		natural gas						3.47	3.47	3.47	da-1	da	FALSE	47da-1
48	dc-1	48dc-1	Dryer	Dryer	brick drying	350	waste heat						7.82			us-1	us	FALSE	48us-1
48	tk-1	48tk-1	tunnel kiln	tunnel kiln	brick firing	2000	natural gas	16					7.82	10.06	10.06	us-2	us	FALSE	48us-2
49	dc-1	49dc-1	Dryer	Dryer	brick drying	350	waste heat						10.64			us-1	us	FALSE	49us-1
49	dc-2	49dc-2	Dryer	Dryer	brick drying	350	waste heat						10.64			us-3	us	FALSE	49us-3
49	dr-1	49dr-1	sand dryer	sand dryer	drying sand		natural gas									fe-5	us	FALSE	49fe-5
49	tk-1	49tk-1	Tunnel kiln	Tunnel kiln	brick firing	2000	natural gas	21.4					10.64	14.50	14.50	us-2	us	FALSE	49us-2
49	tk-2	49tk-2	Tunnel kiln	Tunnel kiln	brick firing	2000	natural gas	21.4					10.64	14.50	14.50	us-4	us	FALSE	49us-4
49	tk-3	49tk-3	Tunnel kiln	Tunnel kiln	brick		natural gas						24	24.00	24.00	us-5	us	FALSE	49US-5
5	dc-1	5dc-1	Dryer	Dryer	Brick	475	waste heat						10.26			us-2	us	FALSE	5us-2
5	dc-2	5dc-2	Dryer	Dryer	Brick	475	waste heat						10.26			us-3	us	FALSE	5us-3
5	misc-2	5misc-2	holding room	predryer	brick	110	waste heat						20.5			us-1	us	FALSE	5us-1
5	tk-1	5tk-1	tunnel kiln	tunnel kiln	brick	2000	natural gas	25.6					10.26	12.51	12.51	us-4	us	FALSE	5us-4
5	tk-2	5tk-2	tunnel kiln	tunnel kiln	brick	2000	natural gas	25.6					10.26	12.51	12.51	us-5	us	FALSE	5us-5
50	dc-1	50dc-1	Dryer	Dryer	brick	400	waste heat						1.79			us-1,-2	us	FALSE	50us-1,-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
					pavers														
50	tk-1	50tk-1	tunnel kiln	tunnel kiln	brick pavers	1980	natural gas						1.79	3.13	3.13	us-3 to us-5	us	FALSE	50us-3 to us-5
51	dc-1	51dc-1	soft mud tunnel dryer	dryer	brick	300	waste heat/natural gas	11.8					6.63			us-2	us	FALSE	51us-2
51	dc-2	51dc-2	tunnel dryer	dryer	brick	400	waste heat						5.04			us-7	us	FALSE	51us-7
51	dc-3	51dc-3	tunnel dryer	dryer	brick	400	waste heat						5.04			us-8	us	FALSE	51us-8
51	dp-1	51dp-1	Batch shapes dryer	dryer	Brick	175	natural gas	0.291	36							us-5	us	FALSE	51us-5
51	dr-1	51dr-1	rotary sand dryer	Sand dryer	sand	250	natural gas	1					1.5			cy-1	cy	FALSE	51cy-1
51	dr-2	51dr-2	rotary sand dryer	Sand dryer	sand	250	natural gas	0.4					1			us-10	us	FALSE	51us-10
51	misc-2	51misc-2	holding room	predryer	brick	100	waste heat						6.63			us-1	us	FALSE	51us-1
51	misc-6	51misc-6	preheater	Predryer	brick	250	waste heat						6.63			us-3	us	FALSE	51us-3
51	misc-8	51misc-8	holding room	predryer	brick	100	waste heat						10.08			us-6	us	FALSE	51us-6
51	tk-1	51tk-1	tunnel kiln	tunnel kiln	brick	2050	natural gas	20					6.63	8.05	8.05	us-4	us	FALSE	51us-4
51	tk-2	51tk-2	tunnel kiln	tunnel kiln	brick	2050	natural gas	27					10.08	11.88	11.88	us-9	us	FALSE	51us-9
52	dc-1	52dc-1	dryer	dryer	Face brick	350	waste heat						8.82			us-1	us	FALSE	52us-1
52	dc-2	52dc-2	dryer	dryer	Face brick	350	waste heat						8.82			us-2	us	FALSE	52us-2
52	misc-1 to misc-2	52misc-1 to misc-2	predryer	predryer	face brick		waste heat						17.65			fe-10,-11	us	FALSE	52fe-10,-11
52	tk-1	52tk-1	tunnel kiln	tunnel kiln	face brick	2000	coal/natural gas	18.9					8.82	12.27	12.27	bh-1	bh	FALSE	52bh-1
52	tk-2	52tk-2	tunnel kiln	tunnel kiln	face brick	2000	coal/natural gas	18.9					8.82	12.27	12.27	bh-2	bh	FALSE	52bh-2
53	dc-1	53dc-1	Dryer	Dryer	Face brick	400	waste heat						15.59			us-1	us	FALSE	53us-1
53	misc-1	53misc-1	predryer	predryer	face brick	200	Waste heat						15.59			fe-13	us	FALSE	53fe-13
53	tk-1	53tk-1	tunnel kiln	tunnel kiln	face brick	2050	coal/natural gas	35					15.59	21.69	21.69	bh-1	bh	FALSE	53bh-1
54	dc-1	54dc-1	Dryer	Dryer	Face brick	350	waste heat						11.59			us-1	us	FALSE	54us-1
54	dc-2	54dc-2	Dryer	Dryer	Face brick	350	waste heat						10.8			us-3	us	FALSE	54us-3
54	misc-1	54misc-1	predryer	predryer	face brick		Waste heat						11.59			fe-5	us	FALSE	54fe-5
54	misc-2	54misc-2	predryer	predryer	face brick		Waste heat						10.8			fe-10	us	FALSE	54fe-10
54	tk-1	54tk-1	tunnel kiln	tunnel kiln	face brick	1880	coal/natural	24.9					11.59	14.77	14.77	us-2	us	FALSE	54us-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
							gas												
54	tk-2	54tk-2	tunnel kiln	tunnel kiln	face brick	1880	coal/natural gas	23.2					10.8	13.77	13.77	us-4	us	FALSE	54us-4
55	dc-1	55dc-1	Dryer	Dryer	face brick	350	waste heat						5.48			us-3	us	FALSE	55us-3
55	dc-2	55dc-2	Dryer	Dryer	Face brick	350	waste heat						7.24			us-4	us	FALSE	55us-4
55	misc-1	55misc-1	predryer	predryer	face brick		waste heat									fe-8	us	FALSE	55fe-8
55	tk-1	55tk-1	tunnel kiln	tunnel kiln	face brick	1900	Natural gas	25					5.48	10.75	10.75	us-1	us	FALSE	55us-1
55	tk-2	55tk-2	tunnel kiln	tunnel kiln	face brick	1900	Natural gas	25					7.24	14.20	14.20	us-2	us	FALSE	55us-2
56	dc-1	56dc-1	Dryer	Dryer	Face brick	350	waste heat						4.36			us-2	us	FALSE	56us-2
56	tk-1	56tk-1	tunnel kiln	tunnel kiln	face brick	2000	Natural gas	29.1					4.36	5.71	5.71	us-1	us	FALSE	56us-1
56	tk-2	56tk-2	Tunnel kiln-idle	Tunnel kiln-idle	Face brick								0	4.00	4.00	us-3	us	FALSE	56us-3
57	dc-1	57dc-1	Dryer	Dryer	Face brick	350	waste heat						5.8			us-1	us	FALSE	57us-1
57	dc-2	57dc-2	Dryer	Dryer	Face brick	350	waste heat						6.9			us-2	us	FALSE	57us-2
57	tk-1	57tk-1	tunnel kiln	tunnel kiln	face brick	1890	coal/natural gas	13.5					5.8	6.89	6.89	us-3	us	FALSE	57us-3
57	tk-2	57tk-2	tunnel kiln	tunnel kiln	face brick	1940	coal/natural gas	18.8					6.9	8.19	8.19	us-4	us	FALSE	57us-4
58	dc-1	58dc-1	Dryer	Dryer	Face brick	350	waste heat						6.3			us-1	us	FALSE	58us-1
58	dc-2	58dc-2	Dryer	Dryer	Face brick	350	waste heat						12.5			us-2	us	FALSE	58us-2
58	tk-1	58tk-1	tunnel kiln	tunnel kiln	face brick	2000	natural gas	14.1					6.3	7.35	7.35	us-3	us	FALSE	58us-3
58	tk-2	58tk-2	tunnel kiln	tunnel kiln	face brick	1940	coal/natural gas	22					12.5	14.59	14.59	bh-3	bh	FALSE	58bh-3
59	dc-1	59dc-1	Dryer	Dryer	Face brick		waste heat						6.18			us-3	us	FALSE	59us-3
59	dc-2	59dc-2	Dryer	Dryer	Face brick		waste heat						11.5			us-4	us	FALSE	59us-4
59	tk-1	59tk-1	tunnel kiln	tunnel kiln	face brick	1825	coal/natural gas	11.9					6.18	7.10	7.10	us-1	us	FALSE	59us-1
59	tk-2	59tk-2	tunnel kiln	tunnel kiln	face brick	1860	coal/natural gas	22					11.5	13.22	13.22	us-2	us	FALSE	59us-2
6	dc-1	6dc-1	Dryer	Dryer	Brick	400	waste heat						4.78			us-3	us	FALSE	6us-3
6	dc-2	6dc-2	Dryer	Dryer	Brick	400	waste heat						4.78			us-4	us	FALSE	6us-4
6	dc-3	6dc-3	Dryer	Dryer	Brick	400	waste heat						4.78			us-5	us	FALSE	6us-5
6	dc-4	6dc-4	Dryer	Dryer	Brick	400	waste heat						4.78			us-6	us	FALSE	6us-6
6	misc-3	6misc-3	holding room	predryer	brick	110	waste heat						19.1			us-1,-2	us	FALSE	6us-1,-2
6	tk-1	6tk-1	tunnel kiln	tunnel kiln	brick	1910	natural gas	28.4					9.55	11.75	11.75	us-7	us	FALSE	6us-7
6	tk-2	6tk-2	tunnel kiln	tunnel kiln	brick	1910	natural gas	28.4					9.55	11.75	11.75	us-8	us	FALSE	6us-8
60	dc-1	60dc-1	Dryer	Dryer	Face brick	350	waste heat						2.74			us-1	us	FALSE	60us-1
60	dc-2	60dc-2	Dryer	Dryer	face brick	350	waste heat						2.74			us-2	us	FALSE	60us-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
60	dc-3	60dc-3	Dryer	Dryer	Brick	350	waste heat						11.18			us-3	us	FALSE	60us-3
60	misc-1	60misc-1	preheater	Predryer	brick	150	waste heat						11.18			fe-6	us	FALSE	60fe-6
60	tk-1	60tk-1	tunnel kiln	tunnel kiln	face brick	2000	coal/natural gas	6.4					2.74	3.68	3.68	us-4	us	FALSE	60us-4
60	tk-2	60tk-2	tunnel kiln	tunnel kiln	face brick	2000	coal/natural gas	6.4					2.74	3.68	3.68	us-5	us	FALSE	60us-5
60	tk-3	60tk-3	tunnel kiln	tunnel kiln	face brick	2000	coal/natural gas	24.2					11.18	15.02	15.02	us-6	us	FALSE	60us-6
61	dc-1	61dc-1	Dryer	Dryer	Face brick	350	waste heat						4.14			us-1	us	FALSE	61us-1
61	dc-2	61dc-2	Dryer	Dryer	Face brick	350	waste heat						4.14			us-2	us	FALSE	61us-2
61	dc-3	61dc-3	Dryer	Dryer	Face brick	350	waste heat						7.51			us-3	us	FALSE	61us-3
61	tk-1	61tk-1	tunnel kiln	tunnel kiln	face brick	1900	Natural gas	13.4					4.14	6.44	6.44	us-4	us	FALSE	61us-4
61	tk-2	61tk-2	tunnel kiln	tunnel kiln	face brick	1900	Natural gas	13.4					4.14	6.44	6.44	us-5	us	FALSE	61us-5
61	tk-3	61tk-3	tunnel kiln	tunnel kiln	face brick	1900	Natural gas	24.2					7.51	11.69	11.69	us-6	us	FALSE	61us-6
62	dc-1	62dc-1	Dryer	Dryer	Face brick	350	waste heat						5.44			us-1	us	FALSE	62us-1
62	dc-2	62dc-2	Dryer	Dryer	Face brick	350	waste heat						5.44			us-2	us	FALSE	62us-2
62	tk-1	62tk-1	tunnel kiln	tunnel kiln	face brick	2000	natural gas	18.1					5.44	9.70	9.70	us-3	us	FALSE	62us-3
62	tk-2	62tk-2	tunnel kiln	tunnel kiln	face brick	2000	natural gas	18.1					5.44	9.70	9.70	us-4	us	FALSE	62us-4
63	dc-1	63dc-1	Dryer	Dryer	Brick	350	waste heat						3.1			us-1	us	FALSE	63us-1
63	tk-1	63tk-1	Tunnel kiln	Tunnel kiln	brick	2000	natural gas	3.44					1.55	8.48	8.48	us-2	us	FALSE	63us-2
63	tk-2	63tk-2	Tunnel kiln	Tunnel kiln	brick	2000	natural gas	2.58					1.55	8.48	8.48	us-3	us	FALSE	63us-3
64	dc-1	64dc-1	tunnel dryer	dryer	brick	450	waste heat						2.84			us-3	us	FALSE	64us-3
64	dc-2	64dc-2	Dryer	Dryer	Brick	450	waste heat						2.84			us-4	us	FALSE	64us-4
64	dc-3	64dc-3	tunnel dryer-idle	dryer-idle	brick	450	Waste heat						0			us-5	us	FALSE	64us-5
64	dc-4	64dc-4	tunnel dryer-idle	dryer-idle	brick	450	Waste heat						0			us-6	us	FALSE	64us-6
64	tk-1	64tk-1	tunnel kiln	tunnel kiln	brick	2100	coal/natural gas						5.68	8.35	8.35	us-1	us	FALSE	64-us-1
64	tk-2	64tk-2	tunnel kiln-idle	tunnel kiln-idle	brick	2100	Natural gas						0	8.35	8.35	us-2	us	FALSE	64us-2
65	dc-1	65dc-1	tunnel dryer	dryer	structural brick	300	waste heat	1.3					3.42			us-4,-5	us	FALSE	65us-4,-5
65	dc-2	65dc-2	tunnel dryer	dryer	structural brick	300	waste heat	1.3					3.42			us-6,-7	us	FALSE	65us-6,-7
65	dc-3	65dc-3	tunnel dryer	dryer	structural brick	300	waste heat	1.3					3.42			us-8,-9	us	FALSE	65us-8,-9
65	tk-1	65tk-1	tunnel kiln	tunnel kiln	structural brick	2000	natural gas	13.9					3.42	3.99	3.99	us-1	us	FALSE	65us-1

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
65	tk-2	65tk-2	tunnel kiln	tunnel kiln	structural brick	2000	natural gas	13.9					3.42	3.99	3.99	us-2	us	FALSE	65us-2
65	tk-3	65tk-3	tunnel kiln	tunnel kiln	structural brick	2000	natural gas	13.9					3.42	3.99	3.99	us-3	us	FALSE	65us-3
66	dc-1	66dc-1	Dryer	Dryer	Brick	350	waste heat						6.95			us-1	us	FALSE	66us-1
66	tk-1	66tk-1	tunnel kiln	tunnel kiln	brick	2000	natural gas	34.2					6.95	9.83	9.83	us-2	us	FALSE	66us-2
67	dc-1	67dc-1	Dryer	Dryer	Face brick	350	waste heat						6.93			us-1	us	FALSE	67us-1
67	tk-1	67tk-1	tunnel kiln	tunnel kiln	face brick	1900	natural gas						6.93	8.58	8.58	us-2,-3	us	FALSE	67us-2,-3
68	dc-1	68dc-1	Dryer	Dryer	Brick	300	waste heat						5.42			us-1	us	FALSE	68us-1
68	dr-1	68dr-1	sand dryer	sand dryer	dried sand	400	natural gas	1					1			bh-2	bh	FALSE	68bh-2
68	tk-1	68tk-1	tunnel kiln	tunnel kiln	structural brick	1970	natural gas	26					5.42	8.44	8.44	us-2	us	FALSE	68us-2
69	dc-1	69dc-1	Dryer	Dryer	structural brick	300	natural gas	4					3.38			us-1	us	FALSE	69us-1
69	dc-2	69dc-2	Dryer	Dryer	structural brick	300	natural gas	4					3.38			us-2	us	FALSE	69us-2
69	dr-1	69dr-1	sand dryer	sand dryer	sand	400	natural gas	1					2			bh-2	bh	FALSE	69bh-2
69	tk-1	69tk-1	tunnel kiln	tunnel kiln	structural brick	1970	natural gas	26					6.51	6.77	6.77	us-3	us	FALSE	69us-3
69	TK-2	69TK-2	Tunnel kiln-idle	Tunnel kiln-idle	Brick	1970	Natural gas	26					0	4.65	4.65	us-4	us	FALSE	69US-4
7	dc-1	7dc-1	Dryer	Dryer	brick	500	waste heat						3			us-2	us	FALSE	7us-2
7	dc-2	7dc-2	Dryer	Dryer	Brick	500	waste heat						3			us-3	us	FALSE	7us-3
7	dc-3	7dc-3	Dryer	Dryer	Brick	500	waste heat						3			us-4	us	FALSE	7us-4
7	dc-4	7dc-4	Dryer	Dryer	Brick	500	waste heat						3			US-5	us	FALSE	7us-5
7	dc-5	7dc-5	Dryer	Dryer	Brick	500	waste heat						3			us-6	us	FALSE	7us-6
7	dc-6	7dc-6	Dryer	Dryer	brick	500	waste heat						3			us-7	us	FALSE	7us-7
7	misc-2	7misc-2	holding room	predryer	brick	100	waste heat						18			US-1	us	FALSE	7US-1
7	tk-1	7tk-1	tunnel kiln	tunnel kiln	brick	2050	natural gas	25.9					9	9.00	9.00	us-8	us	FALSE	7us-8
7	tk-2	7tk-2	tunnel kiln	tunnel kiln	brick	2050	natural gas	25.9					9	9.00	9.00	us-9	us	FALSE	7US-9
70	dc-1	70dc-1	Dryer	Dryer	Face brick	350	waste heat						7.7			us-1	us	FALSE	70us-1
70	dc-2	70dc-2	Dryer	Dryer	Face brick	350	waste heat						7.7			us-2	us	FALSE	70us-1
70	tk-1	70tk-1	tunnel kiln	tunnel kiln	face brick	1900	natural gas						7.7	11.35	11.35	diff-1	diff	FALSE	70diff-1
70	tk-2	70tk-2	tunnel kiln	tunnel kiln	face brick	1900	natural gas						7.7	11.35	11.35	diff-2	diff	FALSE	70diff-2
71	dc-1	71dc-1	Dryer	Dryer	Face brick	430	waste heat						2.85			us-1	us	FALSE	71us-1
71	tk-1	71tk-1	tunnel kiln	tunnel kiln	face brick	2050	natural gas	9.1					2.85	3.51	3.51	us-2,-3	us	FALSE	71us-2,-3
72	dc-1	72dc-1	Brick dryer	dryer	Brick	150	waste heat						8.48			us-15	us	FALSE	72us-15
72	dc-3	72dc-3	Brick dryer	dryer	Brick	150	waste heat						10.96			us-18,-	us	FALSE	72us-18,-

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
																19			19
72	dc-4	72dc-4	Brick dryer	dryer	Brick	150	waste heat						10.96			us-20,-21	us	FALSE	72us-20,-21
72	dr-1	72dr-1	rotary dryer	Sand dryer	sand	400	natural gas	10					4.7			bh-5	bh	FALSE	72bh-5
72	ds-1	72ds-1	rotary wood dryer	Sawdust dryer	sawdust	160	natural gas						2.3			us-22	us	FALSE	72ds-1
72	ds-2	72ds-2	rotary wood dryer	Sawdust dryer	sawdust	160	natural gas						3.5			us-23	us	FALSE	72ds-2
72	misc-3	72misc-3	brick warm room	predryer	brick	100	waste heat						8.48			us-5 to us-8	us	FALSE	72us-5 to us-8
72	misc-4	72misc-4	brick warm room	predryer	brick	100	waste heat						21.92			us-9 to us-14	us	FALSE	72us-9 to us-14
72	tk-1	72tk-1	Tunnel kiln/partial sd	Tunnel kiln	brick	2015	sawdust/natural gas	40					8.48	8.94	8.94	us-1,-2,dps-1	us,dps	FALSE	72us-1,-2,dps-1
72	tk-2	72tk-2	Tunnel kiln/partial sd	Tunnel kiln	brick	2040	sawdust/natural gas	80					21.92	23.10	23.10	us-3,-4,dps-2	us,dps	FALSE	72us-3,-4,dps-2
73	dc-1	73dc-1	Dryer	Dryer	brick	450	waste heat						11.56			us-2	us	FALSE	73us-2
73	dc-2	73dc-2	Dryer	Dryer	Brick	450	waste heat						11.56			us-3	us	FALSE	73us-3
73	misc-1	73misc-1	holding room	predryer	brick	140	waste heat						23.13			us-1	us	FALSE	73us-1
73	tk-1	73tk-1	tunnel kiln	tunnel kiln	brick	1980	natural gas	29.1					11.56	14.97	14.97	us-4	us	FALSE	73us-4
73	tk-2	73tk-2	tunnel kiln	tunnel kiln	brick	1980	natural gas	29.1					11.56	14.97	14.97	us-5	us	FALSE	73us-5
74	dc-1	74dc-1	Dryer	Dryer	brick	500	waste heat						11			us-1	us	FALSE	74us-1
74	misc-2	74misc-2	holding room	predryer	brick		waste heat						11			fe-9	us	FALSE	74fe-9
74	tk-1	74tk-1	tunnel kiln	tunnel kiln	brick	2100	natural gas	25					10.5	11.40	11.40	us-2	us	FALSE	74us-2
75	dc-1	75dc-1	Dryer	Dryer	Brick	400	waste heat/natural gas						5.2			us-1	us	FALSE	75us-1
75	PK-1	75PK-1	periodic kiln-idle	periodic kiln-idle	brick		natural gas						0	0.04	0.04	us-3	us	FALSE	75US-3
75	PK-2	75PK-2	periodic kiln-idle	periodic kiln-idle	brick		natural gas						0	0.04	0.04	US-4	us	FALSE	75US-4
75	PK-3	75PK-3	periodic kiln-idle	periodic kiln-idle	brick		natural gas						0	0.04	0.04	US-5	us	FALSE	75US-5
75	PK-4	75PK-4	periodic kiln-idle	periodic kiln-idle	brick		natural gas						0	0.04	0.04	US-6	us	FALSE	75US-6

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
75	tk-1	75tk-1	tunnel kiln	tunnel kiln	brick	2100	natural gas	11.7					5.2	6.00	6.00	us-2	us	FALSE	75us-2
76	dc-1	76dc-1	Dryer	Dryer	brick	350	waste heat						2.79			us-2	us	FALSE	76us-2
76	misc-1	76misc-1	holding room	predryer	brick		waste heat						2.79			fe-5	us	FALSE	76fe-5
76	tk-1	76tk-1	tunnel kiln	tunnel kiln	brick	2000	natural gas						2.79	5.03	5.03	us-1	us	FALSE	76us-1
77	dc-1	77dc-1	Dryer	Dryer	face brick	350	waste heat						2.75			us-3	us	FALSE	77us-3
77	dc-2	77dc-2	Dryer	Dryer	face brick	350	waste heat						2.75			us-4	us	FALSE	77us-4
77	tk-1	77tk-1	tunnel kiln	tunnel kiln	face brick	1900	natural gas						5.5	6.45	6.45	us-5	us	FALSE	77us-5
77	TK-2	77TK-2	Tunnel kiln	Tunnel kiln	Brick		Natural gas						12.1	12.10	12.10	DLS-1	DLS	FALSE	77DLS-1
78	dc-1	78dc-1	tunnel dryer	dryer	brick	400	waste heat						10.2			us-1	us	FALSE	78us-1
78	dc-2	78dc-2	tunnel dryer	dryer	brick	400	waste heat						11.4			us-2	us	FALSE	78us-2
78	tk-1	78tk-1	tunnel kiln	tunnel kiln	face brick	2020	natural gas						10.2	13.10	13.10	us-3	us	FALSE	78us-3
78	tk-2	78tk-2	tunnel kiln	tunnel kiln	face brick	2030	natural gas						11.4	13.10	13.10	us-4	us	FALSE	78us-4
79	dc-1	79dc-1	Brick dryer	dryer	structural brick	350	waste heat						1.68			us-2	us	FALSE	79us-2
79	tk-1	79tk-1	tunnel kiln	tunnel kiln	structural brick	1900	other-No. 4 fuel oil	12.8					1.68	2.86	2.86	us-1	us	FALSE	79us-1
8	dc-1	8dc-1	predryer	predryer	sand-mold brick	100	waste heat						2.84			us-1	us	FALSE	8us-1
8	dc-2	8dc-2	Dryer	Dryer	Brick	300	waste heat						2.84			us-2	us	FALSE	8us-2
8	dr-1	8dr-1	rotary sand dryer	Sand dryer	sand		natural gas		8	hr						bhi-1	bh	FALSE	8bhi-1
8	tk-1	8tk-1	tunnel kiln	tunnel kiln	brick	1980	natural gas	11.91					2.84	4.80	4.80	us-3	us	FALSE	8us-3
8	TK-2	8TK-2	Tunnel kiln-idle	Tunnel kiln-idle	Brick								0	4.80	4.80	us-4	us	FALSE	8us-4
80	DC-1	80dc-1	Dryer	Dryer	structural brick	275	Waste heat						3.52			US-4	us	FALSE	80us-4
80	TK-1	80TK-1	Tunnel kiln	Tunnel kiln	structural brick	2100	Natural gas						1.17	1.45	1.45	US-1	us	FALSE	80US-1
80	tk-2	80tk-2	Tunnel kiln	Tunnel kiln	Structural brick	2100	Natural gas						1.17	1.45	1.45	us-2	us	FALSE	80us-2
80	tk-3	80tk-3	Tunnel kiln	Tunnel kiln	structural brick	2100	Natural gas						1.17	1.45	1.45	us-3	us	FALSE	80us-3
81	dc-1	81dc-1	initial dryer	dryer	Brick	300	Waste heat						1.16			us-1	us	FALSE	81us-1
81	dc-2	81dc-2	initial dryer	dryer	Brick	300	Waste heat						1.16			us-2	us	FALSE	81us-2
81	dc-3	81dc-3	initial dryer	dryer	Brick	300	Waste heat						1.16			us-3	us	FALSE	81us-3
81	dc-4	81dc-4	initial dryer	dryer	Brick	300	Waste heat						1.16			us-4	us	FALSE	81us-4
81	dc-5	81dc-5	finish dryer	dryer	Brick	460	Waste heat						9.02			us-5	us	FALSE	81us-5
81	dc-6	81dc-6	Dryer	Dryer	Brick	300	Waste heat						3.44			us-7	us	FALSE	81us-7

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
81	dc-7	81dc-7	Dryer	Dryer	Brick	300	Waste heat						3.44			us-7	us	FALSE	81us-7
81	dc-8	81dc-8	Dryer	Dryer	Brick	300	Waste heat						3.44			us-7	us	FALSE	81us-7
81	dc-9	81dc-9	Dryer	Dryer	Brick	300	Waste heat						3.44			us-7	us	FALSE	81us-7
81	tk-1	81tk-1	Tunnel kiln	Tunnel kiln	Brick	2080	Natural gas	23.8					9.02	10.34	10.34	us-6	us	FALSE	81us-6
81	tk-5	81tk-5	Tunnel kiln	Tunnel kiln	Brick	2040	Natural gas	41.7					6.88	11.20	7.89	us-8	us	FALSE	81us-8
81	tk-6	81tk-6	Tunnel kiln	Tunnel kiln	Brick	2040	Natural gas	41.7					6.88	11.20	7.72	us-9	us	FALSE	81us-9
82	dc-1	82dc-1	Dryer	Dryer	Brick	300	Waste heat						7.5			us-2	us	FALSE	82us-2
82	dc-2	82dc-2	Dryer	Dryer	Brick	300	Waste heat						7.5			us-2	us	FALSE	82us-2
82	misc-3	82misc-3	Holding room	predryer	Brick	100							30.2			us-1	us	FALSE	82us-1
82	tk-1	82tk-1	Tunnel kiln	Tunnel kiln	Brick	1900	Natural gas	26.15					14.6	15.80	15.80	us-3	us	FALSE	82us-3
83	dc-1	83dc-1	Dryer	Dryer	Brick	380	Waste heat						2.08			us-1	us	FALSE	83us-1
83	dc-2	83dc-2	Dryer	Dryer	Brick	380	Waste heat						2.08			us-1	us	FALSE	83us-1
83	tk-1	83tk-1	Tunnel kiln	Tunnel kiln	Brick	2270	Natural gas						4.16	7.49	7.49	us-2	us	FALSE	83us-2
84	dc-1	84dc-1	Dryer	Dryer	structural brick	380	Waste heat						8.79			us-1	us	FALSE	84us-1
84	dr-1	84dr-1	sand dryer	sand dryer	sand dryer	250	Natural gas	2.8					2			fe-6	us	FALSE	84fe-6
84	tk-1	84tk-1	Tunnel kiln	Tunnel kiln	structural brick	1980	coal/natural gas	23					8.79	11.00	9.59	us-2	us	FALSE	84us-2
85	dc-1	85dc-1	Dryer	Dryer	Face brick	300	Waste heat						8.7			us-1	us	FALSE	85us-1
85	misc-1	85misc-1	preheater	Predryer	Face brick	150	Waste heat						8.7			fe-1	us	FALSE	85fe-1
85	tk-1	85tk-1	Tunnel kiln	Tunnel kiln	Face brick	1890	coal/natural gas	13.5					8.38	9.13	9.13	cy-1	cy	FALSE	85cy-1
86	dc-1	86dc-1	Dryer	Dryer	Brick	500	Waste heat						5			us-2	us	FALSE	86us-2
86	dp-1	86dp-1	Dryer	Dryer	clay flue pipe	200	Natural gas	4.3	33		48	tons				us-4	us	FALSE	86us-4
86	misc-4	86misc-4	Holding room	predryer	Brick	100	Natural gas									us-1	us	FALSE	86us-1
86	misc-5	86misc-5	preheat	Predryer	clay flue pipe	400	Natural gas	4.3	33		48	tons				us-5	us	FALSE	86us-5
86	misc-6	86misc-6	preheat	Predryer	Brick	900	Natural gas	12.3					5			us-3	us	FALSE	86us-3
86	pk-1	86pk-1	Periodic kiln	Periodic kiln	clay flue pipe	1650	Natural gas	39.7	16		48	tons				us-6	us	FALSE	86us-6
86	tk-1	86tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas	15.4					5	7.78	7.78	us-3	us	FALSE	86us-3
87	dc-1	87dc-1	continuous dryer	dryer	structural brick and fire brick	375	Waste heat						6.7			us-1	us	FALSE	87us-1
87	dp-1	87dp-1	Batch dryer	dryer	clay flue liners	375	Natural gas		71							us-2	us	FALSE	87us-2

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
87	misc-2	87misc-2	Holding room	predryer	structural brick and fire brick	70	Natural gas						6.7			fe-9	us	FALSE	87fe-9
87	pk-1	87pk-1	Periodic kiln	Periodic kiln	clay flue liners	2000	Natural gas	7.8	71				0.19	0.32	0.32	us-4	us	FALSE	87us-4
87	tk-1	87tk-1	Tunnel kiln	Tunnel kiln	structural brick and firebrick	2125	Natural gas	24.8					6.6	9.47	9.47	us-3	us	FALSE	87us-3
88	dc-1	88dc-1	Dryer	Dryer	structural brick	350	Waste heat						2.95			us-1	us	FALSE	88us-1
88	dc-2	88dc-2	Dryer	Dryer	structural brick	350	Waste heat						2.95			us-1	us	FALSE	88us-1
88	tk-1	88tk-1	tunnel kiln	tunnel kiln	structural brick	2000	Natural gas	17.8					5.9	7.52	7.52	us-2	us	FALSE	88us-2
89	dp-1	89dp-1	Dryer	Dryer	Brick	300	Natural gas	6.25	24		84	tons				us-3	us	FALSE	89us-3
89	dp-2	89dp-2	Dryer	Dryer	Brick	300	Natural gas	6.25	24		84	tons				us-4	us	FALSE	89us-4
89	tk-1	89tk-1	Tunnel kiln	Tunnel kiln	Brick	1850	Natural gas	15.6					0.75	5.71	5.71	us-5,-6	us	FALSE	89us-5,-6
9	dc-1	9dc-1	Dryer	Dryer	Brick		Waste heat						9			us-3	us	FALSE	9us-3
9	dc-2	9dc-2	Dryer	Dryer	Brick		Waste heat						9			us-4	us	FALSE	9us-4
9	tk-1	9tk-1	tunnel kiln	tunnel kiln	brick	2050	Natural gas						9	11.83	11.83	DA-1	da	FALSE	9DA-1
9	tk-2	9tk-2	tunnel kiln	tunnel kiln	brick	2050	Natural gas						9	11.83	11.83	DA-1	da	FALSE	9DA-1
90	dc-1	90dc-1	Dryer	Dryer	Face brick	400	Natural gas	0.4					3.91			us-1	us	FALSE	90us-1
90	dc-2	90dc-2	Dryer	Dryer	Face brick	400	Waste heat						3.91			us-2	us	FALSE	90us-2
90	tk-1	90tk-1	Tunnel kiln	Tunnel kiln	Face brick	2000	Natural gas	14					3.91	4.34	4.34	us-3	us	FALSE	90us-3
90	tk-2	90tk-2	Tunnel kiln	Tunnel kiln	Face brick	2000	Natural gas	16					3.91	4.34	4.34	us-4	us	FALSE	90us-4
90	tk-3	90tk-3	Tunnel kiln	Tunnel kiln	Face brick		Natural gas						10.1	12.60		da-1	da	FALSE	90da-1
91	dc-1	91dc-1	Brick dryer	dryer	structural brick	200	Other-No. 2 oil						30			us-5	us	FALSE	91us-5
91	pk-1	91pk-1	Periodic kiln	Periodic kiln	structural brick	1860	Coal		192		167	tons	0.366	0.47	0.47	us-1	us	FALSE	91us-1
91	pk-2	91pk-2	Periodic kiln	Periodic kiln	structural brick	1860	Coal		192		167	tons	0.366	0.47	0.47	us-1	us	FALSE	91us-1
91	pk-3	91pk-3	Periodic kiln	Periodic kiln	structural brick	1860	Coal		192		167	tons	0.366	0.47	0.47	us-2	us	FALSE	91us-2
91	pk-4	91pk-4	Periodic kiln	Periodic kiln	structural brick	1860	Coal		192		167	tons	0.366	0.47	0.47	us-2	us	FALSE	91us-2
91	pk-5	91pk-5	Periodic kiln	Periodic kiln	structural brick	1860	Coal		192		167	tons	0.366	0.47	0.47	us-3	us	FALSE	91us-3
91	pk-6	91pk-6	Periodic	Periodic	structural	1860	Coal		192		167	tons	0.366	0.47	0.47	us-3	us	FALSE	91us-3

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
			kiln	kiln	brick														
91	pk-7	91pk-7	Periodic kiln	Periodic kiln	structural brick	1860	Coal		192		167	tons	0.366	0.47	0.47	us-4	us	FALSE	91us-4
91	pk-8	91pk-8	Periodic kiln	Periodic kiln	structural brick	1860	Coal		192		167	tons	0.366	0.47	0.47	us-4	us	FALSE	91us-4
92	dp-1	92dp-1	Dryer	Dryer	Brick	300	Waste heat						3.8			us-2	us	FALSE	92us-2
92	tk-1	92tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						3.8	6.63	6.63	us-1	us	FALSE	92us-1
93	dc-1	93dc-1	Dryer	Dryer	Brick	300	Waste heat						4			us-2 to us-4	us	FALSE	93us-2 to us-4
93	tk-1	93tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						4	4.02	4.02	us-1	us	FALSE	93us-1
94	dc-1	94dc-1	Dryer	Dryer	Brick	300	Waste heat						0.84			us-1	us	FALSE	94us-1
94	dc-2	94dc-2	Dryer	Dryer	Brick	300	Waste heat						0.84			us-2	us	FALSE	94us-2
94	dc-3	94dc-3	Dryer	Dryer	Brick	300	Waste heat						0.84			us-3	us	FALSE	94us-3
94	dc-4	94dc-4	Dryer	Dryer	Brick	300	Waste heat						0.84			us-4	us	FALSE	94us-4
94	pk-1	94pk-1	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						1.1	2.38	2.38	us-5	us	FALSE	94us-5
94	pk-2	94pk-2	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						1.1	2.38	2.38	us-6	us	FALSE	94us-6
94	pk-3	94pk-3	Periodic kiln	Periodic kiln	Brick	2100	Natural gas						1.1	2.38	2.38	us-7	us	FALSE	94us-7
95	dc-1	95dc-1	Dryer	Dryer	Structural tile	300	Waste heat						7.8			us-2	us	FALSE	95us-2
95	dc-2	95dc-2	Dryer	Dryer	Structural tile	300	Waste heat						7.8			us-3	us	FALSE	95us-3
95	tk-1	95tk-1	Tunnel kiln	Tunnel kiln	Structural tile	2100	Natural gas						15.6	17.15	17.15	us-1	us	FALSE	95us-1
96	dc-1	96dc-1	Dryer	Dryer	structural brick	300	Waste heat						4.85			us-2	us	FALSE	96us-2
96	dc-2	96dc-2	Dryer	Dryer	structural brick	300	Waste heat						4.85			us-3	us	FALSE	96us-3
96	tk-1	96tk-1	Tunnel kiln	Tunnel kiln		2100	Natural gas						9.7	11.93	11.93	us-1	us	FALSE	96us-1
97	ca-1	97ca-1	Calciner	Calciner	Calcined clay											us-1	us	FALSE	97us-1
97	dc-1	97dc-1	Dryer	Dryer	bricks and shapes	300	Waste heat						8.2			us-4 to us-6	us	FALSE	97us-4 to us-6
97	dc-2	97dc-2	Dryer	Dryer	bricks and shapes	300	Waste heat						8.2			us-7 to us-9	us	FALSE	97us-7 to us-9
97	dc-3	97dc-3	Dryer	Dryer	bricks and shapes	300	Waste heat						8.2			us-10 to us-12	us	FALSE	97us-10 to us-12

TABLE 9. (CONTINUED)

FACID	Process	ProcID	Equiptype	Generic Equiptype	Prodtype	Op temp	Fuel	Heat input	Batch time	Batch range	Capacity	Units	Prod. rate	Kiln Capacity tph	Pre-Proposal Kiln Capacity	APCD	APCD Type	Multi Devices	APCDID
97	misc-1	97misc-1	Holding room	predryer	bricks and shapes	150	Waste heat						8.2			us-2,-3	us	FALSE	97us-2,-3
97	misc-2	97misc-2	Holding room	predryer	bricks and shapes	150	Waste heat						8.2			us-2,-3	us	FALSE	97us-2,-3
97	misc-3	97misc-3	Holding room	predryer	bricks and shapes	150	Waste heat						8.2			us-2,-3	us	FALSE	97us-2,-3
97	tk-1	97tk-1	Tunnel kiln	Tunnel kiln	bricks and shapes	2100	Natural gas						8.2	11.06	11.06	us-13	us	FALSE	97us-13
97	tk-2	97tk-2	Tunnel kiln	Tunnel kiln	bricks and shapes	2100	Natural gas						8.2	11.06	11.06	us-14	us	FALSE	97us-14
97	tk-3	97tk-3	Tunnel kiln	Tunnel kiln	bricks and shapes	2100	Natural gas						8.2	11.06	11.06	us-15	us	FALSE	97us-15
98	CA-1	98CA-1	Calciner	Calciner	Calcined clay											US-4	us	FALSE	97US-4
98	dc-1	98dc-1	Dryer	Dryer	Brick	300	Waste heat						11.3			us-1,-2	us	FALSE	98us-1,-2
98	dc-2	98dc-2	Dryer	Dryer	Brick	300	Waste heat						11.3			us-1,-2	us	FALSE	98us-1,-2
98	dc-3	98dc-3	Dryer	Dryer	Brick	300	Waste heat						11.3			us-1,-2	us	FALSE	98us-1,-2
98	dc-4	98dc-4	Dryer	Dryer	Brick	300	Waste heat						11.3			us-1,-2	us	FALSE	98us-1,-2
98	misc-1	98misc-1	Holding room	predryer	Brick	150	Waste heat						11.3			us-1,-2	us	FALSE	98us-1,-2
98	tk-1	98tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						11.3	11.30	11.30	us-3	us	FALSE	98us-3
98	tk-2	98tk-2	Tunnel kiln	Tunnel kiln	Brick		Natural gas						16.5	16.50	16.50	us-5	us	FALSE	98us-5
99	dc-1	99dc-1	Dryer	Dryer	Brick	300	Waste heat						5.7			us-3	us	FALSE	99us-3
99	dc-2	99dc-2	Dryer	Dryer	Brick	300	Waste heat						5.7			us-4	us	FALSE	99us-4
99	misc-1 to misc-2	99misc-1 to misc-2	Holding room	predryer	Brick	150	Waste heat						5.7			us-5,-6	us	FALSE	99us-5,-6
99	tk-1	99tk-1	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						5.7	5.70	5.70	us-1	us	FALSE	99us-1
99	tk-2	99tk-2	Tunnel kiln	Tunnel kiln	Brick	2100	Natural gas						5.7	5.70	5.70	us-2	us	FALSE	99us-2

TABLE 10. PROCESS RATE MONITORING

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
1	Tunnel kiln	TK-1 - TK-2	Yes	Record production and fuel usage	See summary	Daily	NA	NA
3	tunnel kiln	TK-1	Yes	production records	production records	continuous	not established	
4	drying	DC-1, MISC-1 - MISC-9	Yes	Production records	production records	continuous	not established	
4	tunnel kiln	TK-1	Yes	Production records	production records	continuous	not established	
5	dryer	DC-1 TO DC-2	Yes	Plant records number of cars in the dryers to ensure ample supply for tunnel kiln	production records	continuous		
5	grinding & screening	G-1, S-1	Yes	Plant records amount of clay and shale delivered and uses weigh feeders to determine amount used.	production records	continuous		Annually
5	holding room	MISC-2	Yes	Plant records number of cars in the holding room to ensure ample supply for tunnel kiln.	production records	continuous		
5	tunnel kiln	TK-1 TO TK-2	Yes	Plant records push schedule, fired brick weight, and the number of brick per kiln car. process rate calculated as pushes per hour times brick per car times brick weight.	production records	continuous		
6	dryers	DC-1 TO DC-4	Yes	Plant records number of cars in the dyers to ensure ample supply for tunnel kiln.		continuous	not established	
6	kilns	TK-1 TO TK-2	Yes	Plant records push schedule, fired brick weight, and the number of brick per kiln car. Process rate is then calculated as cars per day and can be converted to Standard Brick Equivalents.		continuous		
6	holding room	MISC-3	Yes	Plant records number of cars in the holding room to ensure ample supply for tunnel kiln	see summary	continuous	not established	
7	holding room	MISC-2	Yes	Plant records number of cars in the holding room to ensure ample supply for tunnel kiln		daily		
7	dryer	DC-1 TO DC-6	Yes	Plant records number of cars in the dryer to ensure ample supply for tunnel kiln		daily		
7	tunnel kiln	TK-1, TK-2	Yes	Plant records push schedule, fired brick weight, number of bricks per kiln car. Process rate is calculated as cars per day time bricks per car times fired brick weight.		continuous		
7	texturing and sand coating	CTA-1	No	not applicable				
8	dryer	DC-2	No					
8	tunnel kiln	TK-1	Yes	Plant records push schedule, brick weight, and number of brick per kiln car. Process rate is then calculated as cars per day and can be converted to standard brick equivalents.	see summary	continuous	not established	not appl.
8	pre-dryer	DC-1	No					
8	sand dryer	DR-1	No					

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
10	Tunnel kiln	TK-1 TO TK-2	Yes	Plant records push schedule, fired brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight		continuous		
10	brick dryer	DC-1 TO DC-2	Yes	Plant records push schedule, fired brick wieght, and the number of brick per kiln car. Process rate calculated as pushes per hous times brick per car times brick weight		continuous		
11	tunnel kiln	TK-1	Yes	Plant records kiln push schedule, fired brick weight, and number of brick per kiln car. Process rate calculated as pushes per hour times number of brick per kiln car times fired brick weight.		continuous		
11	sand mixer	MD-1	No					
11	tunnel dryer	DC-1	Yes	Plant production records indicating the number of cars of brick set per day with the corresponding brick size.		daily		
11	preheater	MISC-2	Yes	Plant records kiln push schedule, fired brick weight, and number of brick per kiln car. Process rate calculated as pushes per hour times number of brick per kiln car times fired brick weight.		continuous		
12	holding room	MISC-6	Yes	Plant records number of cars in the holding room to ensure amply supply for tunnel kiln	see summary	daily	not established	
12	tunnel kiln	TK-1, TK-2	Yes	Plant records push schedule, fired brick weight, and number of brick per kiln car. Process rate is then calculated as cars per day and can be converted to tons/d or a Standard Brick Equivalent (SBE)	See summary	continuous	not established	
12	dryer	DC-1 TO DC-4	Yes	Plant records number of cars in the dryers to ensure ample supply for tunnel kiln	see summary	daily	not established	
12	sand dryer	DR-1	No					
13	Tunnel kiln	TK-1 TO TK-2	Yes	Plant records push schedule, fired brick wieght and number of bricks per kiln car. Process rate is calculated as cars per day times bricks per car times fired brick wieight		continuous		
13	tunnel dryer	DC-1 TO DC-4	Yes	Plant records number of cars in the dryer to ensure ample supply for tunnel kiln		daily		
13	Sand Dryer	DR-1	No					
14	dryer	DC-1	Yes	production records	production records	continuous		
14	Kiln	TK-1	Yes	production records	production records	continuous		
15	tunnel kiln	TK-1	Yes	production records	production records	continuous		
15	dryer	DC-1	Yes	production records	production records	continuous		
16	dryer	DC-1	Yes	production records	production records	daily/weekly		
16	tunnel kiln	TK-1	Yes	production records	production records	daily/weekly		
17	tunnel kiln	TK-1	Yes	production records	production records	daily/weekly		
17	dryer	DC-1	Yes	production records	production records	daily/weekly		

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
18	kiln	TK-1	Yes	production records in SBE		daily		
19	Tunnel kiln	TK-3	Yes	Amount of brick per kiln car and # of cars pushed per day		daily		
19	tunnel kiln	TK-2	Yes	amount of brick per kiln car and # of cars pushed per day		daily		
19	tunnel kiln	TK-1	Yes	Amount of brick per kiln car and # of cars pushed per day		daily		
19	Tunnel kiln	TK-4	Yes	Amount of brick per kiln car and # of cars pushed per day		daily		
20	kilns and dryers	TK-1, TK-2, DC-1, DC-2	Yes	Plant records push schedule, green brick, weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight	see summary	daily	0.5	
20	hammermills, screens, brick machines	G-1, G-2, S-1, S-2, S-3, MW-1, MW-2, FW-1, FW-2, MISC-1, MISC-2, RU-1 TO RU-3	No					
21	periodic beehive kilns	PK-1 TO PK-6	Yes	Plant records units movement of all tile and brick from production, to dryer, to kiln. Process rate is calculated by counting units continuously	see sumary	continuous	5%	
23	glaze line	GZ-1	Yes	Production records keep track of number of units glazed. Weight of glaze per unit is known. Process rate = number of units X weight of units	production records	daily		
23	Plant #2 tunnel kiln 2	TK-2	Yes	Production records keep track of the number of units going through the kiln. The weight per unit is known. Process rate = number of units x weight per unit	production records	daily		
23	Plant #1 periodic kiln1,2 4-10	PK-1 TO PK-9	No	Currently, not in operation				
23	grog crusher	CR-1	Yes	Grog pile is measured yearly. 13% of yearly raw material is grog. Process rate = change is pile size + 13% of yearly production tonnage.				
23	Plant #1 raw mat. Grinding	G-3	No	Currently, not in operation				
23	Plant #1 raw mat. screening	S-2	No	currently, not in operation				
23	roller hearth glaze kiln	MISC-1	Yes	Production records keep track of number of units through the kiln. The weight of the units is known. Process rate = number of units x weight of units	prodcution records	daily		
23	plant number three tunnel kiln	TK-3	Yes	Production records keep track of the number of units going through the kiln. The weight per unit is known. Process rate = number of untis toimes weights per unit.	production records	Daily		

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
23	sand coating brick	CTA-2	Yes	Production records keep track of the number of brick manufactured. The weight of coatings per brick is known. Process rate = # of brick x weight of coatings per brick	production records	daily		
23	sand coating tile	CTA-1	Yes	production records keep track of the number of square feet manufactured. The weight of coatings/sq.ft. is known. Process rate =# of sq. ft. x weight of coatings per sq. ft.	production records	daily		
23	Plant 2&3 raw mat. screening	S-1	Yes	Production records keep track of the number of brick manufactured and the weight of each brick. The tonnage screened is th same as the tonnage manufactured	production records	daily		
23	plant 2&3 raw material grindin	G-1	Yes	production records keep track of the number of brick manufactured and the weight of each brick. The tonnage ground is the same as the tonnage manufactured	production records	daily		
23	Plant #2 tunnel kiln 1	TK-1	Yes	Production records keep track of the number of units going through the kiln. The weight per unit is known. Process rate = number of units x weight per unit	production records	daily		
24	tunnel kiln	TK-1	Yes	Production records	see summary	continuous	not known	n/a
24	tunnel dryer	DC-1	Yes	Production records	see summary	continuous	n/a	n/a
24	tunnel dryer	DC-2	Yes	Production records	see summary	continuous	not known	n/a
24	tunnel kiln	TK-2	Yes	Production records	see summary	continuous	not known	n/a
33	extruder machine	FW-1	Yes	Production records	production records	daily in SBE	not established	
33	kilns	PK-1 TO PK-11	Yes	production records	production records	daily in SBE	not established	
34	brick dryer	DC-3	Yes	see production records	see production records	daily	not determined	
34	brick dryer	DC-2	Yes	see production records	see production records	daily	not determined	
34	brick dryer	DC-1	Yes	see production records	see production records	daily	not determined	
34	tunnel kiln	TK-1	Yes	see production records	see production records	daily	not determined	
34	tunnel kiln	TK-2	Yes	see production records	see production records	daily	not determined	
35	tunnel kiln	TK-1, TK-2	Yes	production records base on standard brick equivalent	see summary	daily	not established	
35	dryers	DC-1, DC-2	Yes	production records base on standard brick equivalent	see summary	daily	not established	
36	tunnel kiln	TK-1	Yes	Production records based on SBE	see summary	daily		
36	dryer	DC-1 TO DC-4	Yes	Production records based on SBE	see summary	daily		
38	dryers (4)	DP-1 TO DP-4	Yes	Production reports--computer controller to adjust temp. according to schedule. Supervision with hourly charting	see summary	continuous	not established	

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
38	periodic kiln	PK-1	Yes	Production reports--computer controller to adjust temp. according to schedule. Supervision with hourly charting	see summary	continuous	not established	
38	periodic kiln	PK-2	Yes	Production reports--computer controller to adjust temp. according to schedule. Supervision with hourly charting	see summary	continuous	not established	
39	tunnel kiln	TK-1	Yes	production records	production records	daily	not established	
39	brick dryer	DC1	Yes	production records	production records	daily	not established	
41	tunnel kiln	TK-1	Yes	production rcords	production records	daily	not established	
42	tunnel kiln	TK-1	Yes	production records	production records	continuous		
42	crusher	CR-1	Yes	Production records	production recrods	continuous		
42	mixing/extruding	MW-1, FW-1	Yes	production records	production records	continuous		
42	brick dryer	DC-1	Yes	production records	production records	continuous		
42	grinder	G-1	Yes	production records	production records	continuous		
42	screening	S-1 TO S-6	Yes	production records	production records	continuous		
42	raw material storage	MH-1 TO MH-2	Yes	Production records	production records	continuous		
42	Hamer Mill	G-2	Yes	Production records	production records	continuous		
43	brick production	MW-1,MW-1,FW-2	No	none established				
43	grinding plant	S-1,G-1,S-2,G-2	No	none established				
43	tunnel kiln	TK-1	Yes	plant records charge time of kiln cars	pen and paper	every car charged		
43	twin tunnel dryer	DC-1	Yes	plant records charge time of kiln cars	pen and paper	every car charged		
44	brick dryer	DC-1	Yes	push schedule, green brick with # brick/car, pushes/HR x brick per car x weight brick	production recrods	weekly		
44	firing	TK-1	Yes	push schedule, dry brick with # brick/car, pushes/HR x brick per car x weight brick	production records	weekly		
45	tunnel kiln #2	TK-2	Yes	Production records using SBE as basis	production records	daily		
45	engobe, clay, sand spray machi	BHI-1	Yes	production records using SBE as basis	production records	daily		
45	tunnel kiln #1	TK-1	Yes	Production records using SBE as basis	production records	daily		
46	sand dryer	DR-1	No					
46	tunnel kiln	TK-1	Yes	production rercords (push schedule, bricks per car)	production records	daily		
46	coating mixer	MD-1	No					
46	sawdust dryer	DS-1	No		production records			
47	tunnel kiln	TK-2	Yes	production records	production records	weekly		

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
47	tunnel dryer	DC-1	Yes	production records	production records	weekly		
47	tunnel kiln	TK-1	Yes	production records	production records	weekly		
47	tunnel dryer	DC-2	Yes	production records	production records	weekly		
48	tunnel kiln	TK-1	Yes	production records	production records	daily		
49	tunnel kiln	TK-2	Yes	production records	production records	daily		
49	tunnel kiln	TK-1	Yes	production records	production records	daily		
51	possey machines	FW-1 CTA-1	Yes	Plant production records indicating the number of dryer cars produced and the corresponding brick size		daily		
51	sand mixing	MD-1	No					
51	Pallet unloader	MISC-3, MISC-9	Yes	Plant production records indicating the number of dryer cars unloaded with the brick size		daily		
51	Hand set conveyor belt	MISC-5	Yes	Plant production records indicating the number of cars of brick set per day with the corresponding brick size		daily		
51	Holding room	MISC-2, MISC-8	Yes	Plant production records indicating the number and size of brick produced at the forming department		daily		
51	preheater	MISC-6	Yes	Plant records kiln push schedule, fired brick weight, and number of brick per kiln car. Process rate calculated as pushes per hour times number of brick per kiln car times fired brick wieght		continuous		
51	Tunnel kiln	TK-1, TK-2	Yes	Plant records kiln push schedule, fired brick weight, and number of brick per kiln car. Process rate calclated as pushes per hour times number of brick per kiln car times fired brich weight.		continuous		
51	Tunnel dryer	DC-1 TO DC-3	Yes	Plant production records indicating the number of cars processed with the size and number of brick per car.		daily		
51	sand dryer	DR-1 TO DR-2	No					
51	batch shapes dryer	DP-1	No					
52	tunnel kiln	TK-2	Yes	daily record of production and fuel usage				
52	tunnel kiln	TK-1	Yes	daily record of production and fuel usage				
53	tunnel kiln	TK-1	Yes	daily record of production and fuel usage				
54	tunnel kiln	TK-1	Yes	daily record of production and fuel usage				
54	tunnel kiln	TK-2	Yes	daily record of producation and fuel usage				
55	tunnel kiln	TK-1	Yes	daily record of production and fuel usage				
55	tunnel kiln	TK-2	Yes	daily record of production and fuel usage				
56	tunnel kiln	TK-1	Yes	daily record of production and fuel usage				
57	tunnel kiln	TK-1 TO TK-2	Yes	Daily record of production and fuel usage.				
58	tunnel kiln	TK-1, TK-2	Yes	daily record of production and fuel usage				

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
59	tunnel kiln	TK-1 TO TK-2	Yes	daily record of production and fuel usage				
60	tunnel kiln	TK-1 TO TK-3	Yes	daily production record and fuel usage				
61	tunnel kiln	TK-1 TO TK-3	Yes	daily record of production and fuel usage				
62	tunnel kiln	TK-1 TO TK-2	Yes	daily record of production fuel usage				
63	additive hoppers	MH-3	Yes	tons processed per day				
63	kilns	TK-1, TK-2	Yes	continuous gas flow meter	see summary	continuous, (monthly reading)		once every 3 years
64	tunnel kiln	TK-1	Yes	production records	production records	daily		
64	dryer	DC1	Yes	production records	production records	daily		
64	dryer	DC-2	Yes	production records	production records	daily		
65	secondary storage	MH-2	No					
65	primary storage	MH-1	No					
65	Primary Grinding	G-1	No					
65	brick dryers	DC-1 TO DC-3	Yes	Plant records push schedule, green brick weight and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.		continuous	0.5	
65	brick kilns	TK-1 TO TK-3	Yes	Plant records push schedule, green brick weight and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.		continuous	0.5	
65	secondary grinding	G-2	No					
65	production	FW-1, FW-2	No					
66	brick tunnel kiln	TK-1	Yes	Plant records push schedule, green brick weight, number of brick/car.		continuous		
68	tunnel kiln	TK-1	Yes	Process rate is calcualted as (brick/car)(cars/d)(wt/brick)	see summary	continuous		
69	tunnel kiln	TK-1,TK-2	Yes	Process rate is calculated as (bricks/car)(cars/day)(wt/brick)	see summary	continuous		
71	screens	S-1,S-2	No	What goes into grinder goes to screens				
71	tunnel kiln	TK-1	Yes	Plant records push schedule green brick wt, dry brick wt, and brick per car and pushes per hour x brick per car x brick wt.		continuous	.5	
71	dryer	DC-1	Yes	Plant records push schedule green brick wt, dry brick wt, and brick per car and pushes per hour x brick per car x brick wt.		continuous	.5	
71	grinder	G-1	Yes	Frontend loader buckets per hour are counted and recorded per shift ave. wt. per bucket is multiplied by number of buckets.	see summary	continuous	2	one bucket of clay weighed four to six times per year

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
72	rotary sand dryer	DR-1	No					
72	sand building	MD-1	No					
72	tunnel kiln	TK-1, TK-2	Yes	Plant records push schedule. Process rate calculated as number of kiln cars leaving kiln per day	see summary	continuous	not established	not applicable
72	brick warm room	MISC-3 - MISC-4	Yes	Plant records number of cars in the warming room to ensure ample supply for tunnel kiln	see summary	daily	not established	not applicable
72	kiln car cleaning system	MISC-5	No					
72	brick dryer	DC-1, DC-3, DC-4	Yes	Plant records number of cars in the dryer to ensure ample supply for tunnel kiln	see summary	daily	not established	not applicable
72	mill room	MW-1, FW-1, CTA-1, MW-2, FW-2, CTA-2	No					
72	rotary wood dryer	DS-1 - DS-2	No					
73	dryer	DC-1, DC-2	Yes	Plant records number of cars in the dryers to ensure ample supply for tunnel kiln.	see summary	daily	not established	
73	holding room	MISC-1	Yes	Plant records number of cars in the holding room to ensure ample supply for tunnel kiln	see summary	daily	not established	
73	tunnel kiln	TK-1, TK-2	Yes	Plant records push schedule, fired brick weight, number of bricks per kiln car. Process rate is calculated as cars per day times brick per car times fired brick weight.	See summary	continuous	not established	
73	sand and slurry mixer	MD-1	No					
74	dryer	DC-1	Yes	Plant records number of cars in the dryers to ensure ample supply for tunnel kiln.	see summary	daily	not established	
74	tunnel kiln	TK-1	Yes	Plant records push schedule, fired brick weight, number of bricks per kiln car. Process rate is calculated as cars per day times brick per car times fired brick weight.	see summary	continuous	not established	
75	pumps and feeders	CTA-1	No					
75	dryer	DC-1	Yes	Records of push schedule, count of brick on cars, weight of brick	See summary	daily	0.2%	6 months
75	kiln	TK-1	Yes	Records of push schedule, count of brick on cars, weight of brick	see summary	daily	0.2%	6 months
75	roller mill	G-2	Yes	Plant production records in standard brick equivalents per day, weight of brick produced.	see summary	daily	0.5%	
76	brick dryer	DC-1	Yes	Production reports	production records	Continuous	not established	
76	holding room	MISC-1	Yes	Production records	production records	continuous	not established	
76	tunnel kiln	TK-1	Yes	Production records	production records	continuous	not established	

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
78	tunnel kiln	TK-2	Yes	production records	sbe	daily	not established	
78	brick dryer	DC-2	Yes	Production records	SBE	daily	not established	
78	tunnel kiln	TK-1	Yes	production records	sbe	daily	not established	
78	brick dryer	DC-1	Yes	Production records	SBE	daily	not established	
79	brick dryer	DC-1	No					
79	Tunnel kiln	TK-1	Yes	production records	production records	daily	not established	
80	brick dryer	DC-1	Yes	Production record	production record	Continuous	not established	
80	tunnel kiln 3	TK-3	Yes	push schedule, kiln record	production records	Continuous	not established	
80	tunnel kiln 1	TK-1	Yes	push schedule, kiln record	production records	Continuous	not established	
80	tunnel kiln 2	TK-2	Yes	push schedule, kiln record	production records	Continuous	not established	
81	forming & sand coating	FW-1, FW-2	No					
81	Tunnel kiln	TK-5, TK-6	Yes	Plant records push schedule, fired brick weight averages, and number of brick per kiln car. Process rate is then calculated as cars per day and can be converted to tons/day or Standard Brick Equivalent (SBE).		Daily		
81	coating & texturing	FW-3, CTA-3	No					
81	Tunnel kiln	TK-1	Yes	Plant records push schedule, fired brick weight averages, and number of brick per kiln car. Process rate is then calculated as cars per day and can be converted to tons/day or Standard Brick Equivalent (SBE).		Daily		
81	finish dryers	DC-5	Yes	Plant records number of cars in the finish dryers to ensure ample supply for tunnel kiln.		Daily		
81	Dryer	DC-6 TO DC-9	Yes	Plant records number of cars in the dryers to ensure ample supply for tunnel kiln.		Daily		
81	initial dryer	DC-1 TO DC-4	Yes	Plant records number of cars in the initial dryers to ensure ample supply for tunnel kiln.		Daily		
82	Holding room	MISC-3	Yes	Daily production records and plant kiln office records the number of cars in the holding room to ensure ample supply for tunnel kiln	production records	Daily	not established	
82	Dryer	DC-1 TO DC-2	Yes	Plant records the number of cars in the dryers to ensure ample supply for tunnel kiln	production records	periodic	not established	
82	Tunnel kiln	TK-1	Yes	Plant records push schedule, brick weight, and the number of brick per kiln car. Process rate is then calculated as cars per day and can be converted to tons/d or Standard Brick Equivalents (SBE's).	Production records	periodic	not established	
83	Tunnel kiln	TK-1	Yes	Production records	Production records	Daily		

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
84	Brick dryer	DC-1	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.	see summary, production record	Daily	2	
84	Tunnel kiln	TK-1	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.	see summary, production record	Daily	2	
85	Tunnel kiln	TK-1	Yes	Daily record of production and fuel usage.				
86	clay hopper	MH-1	No					
86	sifting screens	S-1, S-2	No					
86	roll crusher	CR-1	No					
86	kiln	PK-1	No					
86	kiln	TK-1	Yes	Daily log is made of production cars and tons of material through system.	see summary	Daily		
86	Dryer	DC-1	Yes	Daily log is made of production cars through system.	see summary	Daily		
86	cement mixing	MD-1	No					
86	preheat	MISC-5	No					
86	Holding room	MISC-4	No					
86	brick pug-extruder	FW-2	Yes	Product cars loaded per hour as a production progress tracking tool. Not recorded				
86	hammer mill	CR-2	No					
86	pipe pug-extruder	FW-1	Yes	Product cars loaded per hour as a production progress tracking tool. Not recorded				
87	pugmills	MW-2	Yes	plant records, production data, weights, piece counts		Continuous	.2	
87	additive feeders	CTA-1	Yes	plant records, production data, car counts, belt scale, totalizer piece counts, ect.		Continuous	.05	
87	clay prep batching grinding sc	MD-1, G-1, S-1	Yes	Visible inspections for dust. Plant records, production data, batch counts, loader weights		Hourly	.05	
87	slurry mixers	MW-1	Yes	plant records, production data, weights, piece counts		Continuous	10	
87	Tunnel kiln	TK-1	Yes	Plant records, push sched., weights, car counts, gas meter readings		Continuous	.5	
87	Periodic kiln	PK-1	Yes	Plant records, weights, piece counts, gas meter readings		Continuous	.5	
88	slurry mixers	MW-1 TO MW-2	Yes	Plant records, production data, weights, piece counts	see summary	Continuous	10	
88	pugmills	MW-3 TO MW-4	Yes	Plant records, production data, weights, piece counts	see summary	Continuous	.5	
88	Tunnel kiln	TK-1	Yes	Plant records push schedule, weights, car counts, and gas meter readings	see summary	Continuous	.5	

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
88	clay prep batch. Grind. Screen	WE-1,CR-1,G-1,S-1	Yes	production data loader weights batch counts	see summary	Continuous		
88	Dryer	DC-1	Yes	based on amount of brick needed to fill a kiln	see summary	Continuous		
88	Dryer	DC-2	Yes	based on amount of brick needed to fill a kiln	see summary	Continuous		
89	Tunnel kiln	TK-1	Yes	SBE basis for production records	production records	Hourly	Not Established	
90	Tunnel kiln	TK-2	Yes	production records		Daily	not established	
90	brick dryer	DC-1	Yes	production records		Daily	not established	
90	Tunnel kiln	TK-1	Yes	production records		Daily	not established	
90	brick dryer	DC-2	Yes	production records		Daily	not established	
91	kilns	PK-1 TO PK-8	Yes	Number of bricks production records	production records	Daily	not established	
91	brick dryer	DC-1	No					
100	sawdust kilns 1&2	TK-1 TO TK-2	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln caar. Process rate calculated as pushes per hour times brick per car times brick weight	actual production	Daily	1.0	
100	brick dryer	DC-1 TO DC-2	Yes	plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per cart times brick weight	actual production	Daily	1.0	
100	texturizer	CTA-1	No					
101	texturizer	CTA-2	No					
101	sawdust kilns 1 and 2	TK-2, TK-3	Yes	Plant record push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.	actual production	Daily	1	
101	brick dryers	DC-3, DC-4	Yes	Plant record push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.	actual production	Daily	1	
101	gas kiln	TK-1	Yes	Plant record push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.	actual production	Daily	1	
101	brick dryer	DC-1, DC-2	Yes	Plant record push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight.	actual production	Daily	1	
101	texturizer	CTA-1	No					
102	sawdust kilns 1 and 2	TK-1,TK-2	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight	actual production	Daily	1	

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
102	brick dryer	DC-1, DC-2	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight	actual production	Daily	1	
102	texturizer	CTA-1	No					
103	sawdust kilns 3-8	TK-1 TO TK-6	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight	actual production	Daily	1	
103	texturizer	CTA-2	No					
103	texturizer	CTA-1	No					
104	Dryer	DC-1	Yes	production rate sets push schedule. Currently at 20 car schedule/24 hours, or 1 car every 1 hour and 12 min.	production records	Continuous	0.5	
104	Tunnel kiln	TK-1	Yes	production rate sets push schedule. Currently at 20 car schedule/24 hours, or 1 car every 1 hr. and 12 min.	production recrods	Continuous	0.5	
110	Tunnel kiln	TK-1	Yes	production records	production records	Daily	not est.	
110	sand mixer	MD-1	Yes	production records	production records	Daily	not est.	
110	extruder/cuter	FW-1	Yes	production records	production records	Daily	not est.	
110	crusher grinder screens	GS-1	Yes	production records	production records	Daily	not est.	
110	brick dryer	DC-1	Yes	production records	production records	Daily	not est.	
111	crusher grinder screens	CR-1,G-1,S-1,MH-1	Yes	production records	production records	Daily	not est.	
111	Tunnel kiln	TK-1	Yes	production records	production records	Daily	not est.	
111	brick dryer	DC-1	Yes	production records	production records	Daily	not est.	
111	pre-heater	MISC-1	Yes	production records	production records	Daily	not est.	
111	sand dryer	DR-1	Yes	production records	production records	Daily	not est.	
112	brick dryer	DC-1	Yes	production records	production records	Daily	not est.	
112	3 tunnel kilns	TK-4 TO TK-6	Yes	production records	production records	Daily	not est.	
112	3 brick dryers	DC-4 TO DC-6	Yes	production records	production records	Daily	not est.	
112	shuttle kilns	PK-21	Yes	production records	production records	Daily	not est.	
112	crusher grinder screens	CR-3, G-3, S-3	Yes	production records	production records	Daily	not est.	
112	extruder cutter	FW-3	Yes	production records	produciton records	Daily	not est.	
112	glaze line	GZ-1	Yes	production records	production records	Daily	not est.	
112	waxer	GZ-2	Yes	produciton records	production records	Daily	not est.	
112	pre heater	MISC-1	Yes	production records	production records	Daily	not est.	

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
112	sand dryer	DR-1	Yes	production records	production records	Daily	not est.	
112	crusher grinder screens	CR-2, G-2, S-2	Yes	production records	production records	Daily	not est.	
112	extruder cutter	FW-2	Yes	production records	production records	Daily	not est.	
112	3 tunnel kilns	TK-1 TO TK-3	Yes	production records	production records	Daily	not est.	
112	2 brick dryers	DC-2 TO DC-3	Yes	production records	production records	Daily	not est.	
112	2 soft mud dryers	DR-2 TO DR-3	Yes	production records	production records	Daily	not est.	
112	crusher grinder screens	CR-1, G-1, S-1	Yes	production records	production records	Daily	not est.	
112	exruder cutter	FW-1	Yes	production records	production records	Daily	not est.	
112	20 periodic kilns	PK-1 TO PK-20	Yes	production records	production records	Daily	not est.	
113	Tunnel kiln	TK-1	Yes	production records	production records	Daily	not est.	
113	brick dryer	DC-1	No					
113	continous dryer	DP-1	Yes	estimated by how much brick fits on cars	estimate	Daily	not est.	
114	slurry mixers	MW-2	Yes	production data piece counts weights. Plant records	see summary	Continuous	10	
114	Tunnel kiln	TK-1	Yes	plant records, push schedule gas meter readings, car counts plece weights, production data	see summary	Continuous	.5	
114	Dryer	DC-1	Yes	based on how much brick needed to fill kiln	see summary			
114	additive feeder	CTA-1	Yes	production data, piece counts weights plant records	see summary	Continuous	.5	
114	pugmill	MW-1	Yes	production data piece counts weights Plant records	see summary	Continuous	.5	
114	clay prep grinding & screening	G-1.S-1	Yes	plant records, production data piece counts, weights	see summary	Continuous	.5	
114	storage	RU-2	Yes	plant records, production data piece counts, weights	see summary	Continuous	.5	
114	mixing	MD-1	Yes	plant arecords, production data piece counts, weights	see summary	Continuous	.5	
115	Tunnel kiln	TK-1	Yes	raw materials consumption and daily production recorded in log book	log book	Daily		
115	Dryer	DC-1	Yes	raw materials consumption and daily production recorded in log book	log book	Daily		
116	Tunnel kiln	TK-1	Yes	Production records	SBE	Daily	not established	
118	Tunnel kiln	TK-1	Yes	production records	production records	Daily	not established	
118	Tunnel kiln	TK-2	Yes	production records	production records	Daily	not established	
118	Tunnel kiln	TK-3	Yes	prodcuton records	production records	Daily	not established	
119	Tunnel kiln	TK-1	Yes	operator monitors and adjust temperatures see that the kiln cans are moved correctly and timely. Records ID of kiln cars	operation records	Hourly		

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
119	dryers	DC-1 TO DC-2	Yes	Operator monitors and adjust temperatures see that the kiln cars are moved correctly & timely. Records ID of kiln cars.	operation records	Hourly		
119	Holding room	MISC-1	Yes	Operator monitors and adjust temperatures see thathe kiln cars are moved correctly and atimely. Records ID of kiln cars	operation records	Hourly		
120	brick dryer	DC-1	Yes	production records	production records	Continuous	not est.	
120	Tunnel kiln	TK-1	Yes	production records	production records	Continuous	not est.	
121	brick dryer	DC-1	Yes	production records	production records	Continuous	not est.	
121	Tunnel kiln	TK-1	Yes	production records	production records	Continuous	not est.	
122	sand dryer	DR-2	No					
122	tunnel dryer	DC-1	Yes	production records cars per day	production records	Continuous	not established	
122	Tunnel kiln	TK-1	Yes	production records cars per day	production records	Continuous	not established	
122	clay dryer	DR-1	No					
130	brick dryer	DC-1	Yes	production records	production records	Daily	not est.	
130	crusher grinder screens	GS-1	Yes	production records	production records	Daily	not est.	
130	extruder cutter	FW-1	Yes	production records	production records	Daily	not est.	
130	2 tunnel kilns	TK-1 TO TK-2	Yes	production records	production records	Daily	not est.	
131	sand dryer	DR-1	No					
131	sand mixing area	MD-1	No					
131	Holding room	MISC-2	Yes	plant records number of cars in the holding room to ensure ample supply for tunnel kiln		Daily	not est.	
131	Dryer	DC-1 TO DC-4	Yes	plant records number of cars in th dryers to ensure ample supply for tunnel kiln		Daily	not est.	
131	Tunnel kiln	TK-1 TO TK-2	Yes	plant records push schedule, fired brick weight average, and number of brick per kiln car. Process rate is then calculated as cars per day and can be multiplied by fired brick weight & converted to tons/day or standard brick equivalents		Continuous	not est.	
132	Tunnel kiln	TK-1	Yes	plant records push schedule, fired brick wieght averages, and number of bricks per kiln car. Process ratre is then calculated as cars per day (which can be multiplied by wieghts and converted to tons/day or sbe)		Continuous		
132	forming and sand coating	FW-1 TO FW-2	No					
132	setting machine	MISC-1	No					
132	hand forming and coating	FW-3	No					

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
132	initial dryers 6	DC-1 TO DC-6	Yes	plant records number of cars in the dryers to ensure ample supply of tunnel kiln		Continuous		
132	special shapes dryer	DC-7 TO DC-8	Yes	plant records the number of rack cars in the specital shapes dryer to ensure the special shapes are later fired with similar bricks		Continuous		
133	sand coater	CTA-2	No					
133	sand coater	CTA-1	No					
133	Tunnel kiln	TK-2	Yes	Plant records push schedule, fired brick weight, number of bricks per kiln car. Process rate is calculated as cars per day times bricks per car converted to SBE per day	see summary	Continuous		
133	Dryer	DC-1 TO DC-8	Yes	process rate determined by the kiln	see summary	Daily	not established	
133	Tunnel kiln	TK-3	Yes	plant records push schedule, fired brick weight, number of bricks per kiln car. Process reate is calculated as cars per day times bricks per car converted to SBE per day	see summary	Continuous	not established	
133	Dryer	DC-9	Yes	Process rate determined by the kiln	see summary	Daily	not established	
133	Tunnel kiln	TK-1	Yes	plant records push schedule, fired brick weight, number of bricks per kiln car. Process rate is calculated as cars per day times bricks per car converted to SBE per day	see summary	Continuous		
133	rotary mixer	MW-1 TO MW-2	No					
134	Tunnel kiln	TK-1	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight	see summary	Continuous	unknown	
134	Tunnel kiln	TK-2	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight	see summary	Continuous	unknown	
134	Tunnel kiln	TK-3	Yes	Plant records push schedule, green brick weight, and the number of brick per kiln car. Process rate calculated as pushes per hour times brick per car times brick weight	see summary	Continuous	unknown	
135	screens	S-1 TO S-4	Yes	production records	production records	production records	not established	
135	kilns	TK-1 TO TK-3	Yes	production records	production records	production records	not established	
135	hammer mill	G-1 TO G-2	Yes	production records	production records	production records	not established	
135	crushers	CR-1 TO CR-2	Yes	production records	production records	production records	not established	
136	Tunnel kiln	TK-1	Yes	based on SBE production records	production records	Hourly	not established	

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
137	sand mixer 4 applicators	MD-1,CTA-1	Yes	production records	production records sbe	Daily	not estab.	
137	sand applicator	CTA-2	Yes	production records	production records sbe	Daily	not estab.	
137	Tunnel kiln	TK-1	Yes	production records	production records sbe	Daily	not estab.	
137	Tunnel kiln	TK-2	Yes	production records	production records sbe	Daily	not estab.	
137	Tunnel kiln	TK-3	Yes	production records	prod. Records sbe	Daily	not est.	
137	Tunnel kiln	TK-4	Yes	produciton records	prod. Records sbe	Daily	not est.	
137	Tunnel kiln	TK-5	Yes	production records	prod. Records sbe	Daily	not est.	
138	tunnel dryer	DC-1 TO DC-3	Yes	plant production records indicating the number of cars of brick set per day with the corresponding brick size	see summary	Daily	not est.	
138	Tunnel kiln	TK-1	Yes	plant records kiln push schedule, fired brick weight, and number of brick per kiln car. Process rate calculated as pushes per hour times number of brick per kiln car times fired brick weight.	see summary	Continuous	not est.	
138	Rotary dryer	DR-1	No					
138	sand mixer	MD-2	No					
139	Tunnel kiln	TK-1	Yes	production records	production records	Continuous	not est.	
139	Dryer	DC-1	Yes	production records	production records	Continuous	not est.	
140	brick dryer	DC-1	Yes	production records	see summary	Daily	not est.	
140	special shapes dryer	DC-2	Yes	production records	see summary	Daily	not est.	
140	Tunnel kiln	TK-1	Yes	production records	see summary	Daily	not est.	
141	Tunnel kiln	TK-1	Yes	maintain monthly records of clay mixed used in kiln	see summary	Continuous	+ - .5	
141	Dryer	DC-1	Yes	noted by how much brick is extruded	see summary	Continuous	+ - .5	
144	brick dryer	DC-1	Yes	production records	production records	Continuous	not est.	not applicable
144	Tunnel kiln	TK-1	Yes	production records	production records	Continuous	not established	not applicable
144	Mn feeder belt	MH-3	Yes	additive usage, purchasing records	purchasing records	Annually	not established	not applicable
144	extruder and pugmill	FW-1	Yes	production records	production records	Continuous	not established	not applicable
145	brick dryer	DC-1 TO DC-2	Yes	plant kiln schedules process rate=kiln cars/day times brick/car times weight/green brick	as per summary	Daily	na	na

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
145	kiln	TK-1	Yes	plant schedule process rate=kiln cars/day, times brick/car, times weight/fired brick	as per summary	Daily	na	na
146	Tunnel kiln	TK-1 TO TK-3	Yes	plant records push schedule, green tile and the number of tile per kiln. Process rate calculated as number of tile per hour x tile weight	production records	Continuous	not established	na
146	Dryer	DC-2 TO DC-3	Yes	plant records push schedule, green tile weight and number of tile per dryer car. Process rate calculated as cars per hour x tile per x tile per car	production records	Continuous	not est.	na
146	grinding and screening	GR-1G-1S-1TO S-4	Yes	plant records of clay delivered and using number of scoops x weight per scoop	production records	Continuous	not est.	na
148	Brick Kiln	TK-1	Yes	Push schedule, green brick weight, number of brick/car	see summary	Continuous		
153	Structural brick and tile dryer	DP-1	Yes	This is a batch dry system; the length of the drying cycle is countrolled.	personal computer	Continuous	unknown	NA
153	Tunnel kiln	TK-2	Yes	The push rate and frequency is monitored. The fired weight is recorded periodicaly. Tons of product is recorded monthly.	personal computer	Continuous	unknown	NA
153	Fire brick dryer	DP-2	No					
153	Fire brick dryer	DP-3	No					
153	Fire brick dryer	DP-4	No					
153	Tunnel kiln	TK-1	Yes	The push rate and frequency is monitored. The fired weight is recorded periodically. Tons of product is recorded monthly.	personal computer	Continuous	unknown	NA
154	Tunnel kiln	TK-1 TO TK-2	Yes	production records	production records	Continuous	not established	NA
154	Tunnel kiln	TK-3	Yes	production records	production records	Continuous	not established	NA
154	Tunnel kiln	TK-4	Yes	production records	production records	Continuous	not established	NA
155	brick dryer	DC-1,DC-2	Yes	Plant records monthly brick production and natural gas usage	see summary	Continuous	+0.5	NA
155	Tunnel kiln	TK-1	Yes	Plant records monthly brick production and natural gas usage	see summary	Continuous	+0.5	NA
158	Tunnel kiln	TK-1	Yes	Plant records push schedule and number of brick per kiln car.	see summary	Continuous	1	NA
158	hammer mill dry pan grinders	GR-1 TO GR-3	No	NA	NA	NA	NA	NA
158	storage silos	MH-1	No	NA	NA	NA	NA	NA
158	jaw crusher	CR-2	No	NA	NA	NA	NA	NA
158	tunnel dryer	DC-1	Yes	Plant records push schedule and number of brick per car.	see summary	Continuous	1	NA
159	Brick Dryers	DC-1 TO DC-2	Yes	Plant records push schedule, green brick weight, number of brick per car. Process rate calculated as pushes/hr x brick/car	see summary	Continuous	0.5	NA
159	Brick Kiln	TK-1	Yes	Plant records push schedule, green brick weight, number of brick per car. Process rate calculated as pushes/hr x brick/car	see summary	Continuous	0.5	NA
159	Crusher	CR-1	Yes	Plant monitors running time required to fill storage tanks.	see summary	Daily	5	NA
159	Grinder	GR-1	Yes	Plant monitors running time required to fill storage tanks.	see summary	Daily	5	NA

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
159	Screens	S-1 TO S-2	Yes	Plant monitors running time required to fill storage tanks.	see summary	Daily	5	NA
179	Brick kiln	PK-3	Yes	Plant records input and output from brick kiln	see summary	Continuous	1%	NA
179	Brick dryer	DC-1	Yes	Plant records quantity of green brick removed from the brick dryer	see summary	Continuous	1%	NA
179	Brick kiln	PK-1	Yes	Plant records input and output from brick kiln	see summary	Continuous	1%	NA
179	Brick kiln	PK-2	Yes	Plant records input and output from brick kiln	see summary	Continuous	1%	NA
179	Brick kiln	PK-4	Yes	Plant records input and output from brick kiln	see summary	Continuous	1%	NA
183	Periodic kiln	PK-1	No					
184	grinding pan	G-1 TO G-2	Yes	daily throughput from inventory (tons)	production records	Daily	not established	n/a
184	truck dump	MH-1 TO MH-2	Yes	tons received	production records	Daily	not established	n/a
184	crusher	CR-1	Yes	tons received (production records)	production records	Daily	not established	n/a
184	intermittent kiln	PK-1 TO PK-3	Yes	scheduled firing	prduction records	Daily	not established	n/a
184	vibrating screens	S-1 TO S-8	Yes	daily throughput from inventory (tons)	production records	Daily	not established	n/a
184	pugmill	MW-1 TO MW-2	Yes	daily throughput (tons	production records	Daily	not established	n/a
184	Dryer	DC-1 TO DC-2	Yes	scheduled throughput (kiln cars per day)	production records	Daily	not established	n/a
184	Tunnel kiln	TK-1 TO TK-4	Yes	scheduled throughput (kiln cars per day)	production records	Daily	not established	n/a
185	bee hive kiln	PK-1	Yes	manually record shelves filled convert to sq. ft.		batch	+-10	
185	dry mixer	MD-1	Yes	batch mixer, tons per mix no recording as needed	none	none	n/a	n/a
185	wet mixer	MW-1	Yes	batch mixer, pounds per mix no recording as needed	none	none	no	no
185	Dryer	DC-1	Yes	conveyor recorded in feet travedled converted to sq. ft.	roller chart	Daily	+-10	none
185	bee hive kiln	PK-2	Yes	manually record shelves filled convert to sq. ft.		batch	+-10	
185	Tunnel kiln	TK-1	Yes	manually record cars filled convert to sq. ft.	notepad	Hourly	+-5	
185	shuttle kiln	PK-3	Yes	manually record kiln filled convert to sq. ft.		batch	+-5	
185	shuttle kiln	PK-4	Yes	manually record kiln filled convert to sq. ft.		batch	+-5	
187	extruder	FW-3	Yes	limited by fixed number of kiln cars required per day	number of kiln cars	Daily	+-10%	n/a
187	Tunnel kiln	TK-1	Yes	limited by fixed number of kiln cars required per day	number of kiln cars	every 3 hr	+-10%	n/a
187	Tunnel kiln	TK-3	Yes	limited by fixed number of kiln cars required per day	number of kiln cars	every 3 hours	+-10%	n/a
187	pk blender	MD-1	Yes	record number of batches daily	each batch weighed	Daily	+-2%	twice annually
187	feeder	MH-18	Yes	Limited by fixed number of kiln cars required per day	number of kiln cars	Daily	+-10%	n/a
187	feeder	MH-25	Yes	limited by fixed number of kiln cars required per day	number of kiln cars	Daily	+-10%	n/a
187	extruder #1	FW-2	Yes	limited by fixed number of kiln cars required per day	number of kiln cars	Daily	+-10%	n/a
187	ball mills	MISC-1 TO MISC-3	Yes	count of batches	recorded manually	Daily	n/a	n/a

TABLE 10. (continued)

FACID	Source type	Equipment	Mon.	Procedures	Monitoring type	Monitoring frequency	Monitoring accuracy	Calibration frequency
187	dryer #1	DC-3	Yes	limited by fixed number of kiln cars required per day	number of kiln cars	every 3 hours	+-10%	n/a
187	dryer #3	DC-5	Yes	limited by fixed number of kiln cars required per day	number of kiln cars	every 3 hours	+-10%	n/a
187	cursher	CR-1	Yes	number of truck loads recorded daily	physical count	Daily	+-5%	n/a
187	storage	MH-2	Yes	number of truck loads recorded daily	physical count	Daily	+-5%	n/a
187	grinding pfiefer	G-1	Yes	number of truck loads recorded daily	physical count	Daily	+-5%	n/a
187	storage silos 1 & 2	MH-3, MH-4	Yes	number of truck loads recorded daily	physical count	Daily	+-5%	n/a
187	eirich mixer	MW-1	Yes	batch count, each batch weighed	weigh hopper	each batch	+-.5%	semi-annually
187	exruder	FW-1	Yes	count of square feet extruded	counted	daily by shift	+-.1%	n/a
187	Dryer	DC-1	Yes	count of square footage	counter	daily by shift	+-.1%	n/a
187	glaze machine	GZ-1	Yes	count of square feet produced	counter	daily by shift	n/a	n/a
187	after glaze dryer	DC-2	Yes	count of square feet produced	counter	daily by shift	n/a	n/a
187	minor constituent bins	MH-5	Yes	controlled by batches through eirich	batch count	Daily	+-.5%	semi-annually
187	kiln #4	RK-1	Yes	count of square feet produced	counter	daily by shift	n/a	n/a
188	Tunnel kiln	TK-1 TOTK-2	Yes	continuous process feed rate as cars/day regulated	cycle timer on car pusher	5 min	+-2.0	n/a
188	dry pan	G-1 TO G-2	Yes	feed rate of apron feeders verified weekly. Timers record feed time. Total tons processed is calculated at the end of each shift	timer	Continuous	+-1	n/a
188	chemical flashing	MISC-1 TO MISC-2	Yes	spray nozzles are calibrated at the start of each production run and as required to maintain proper spray pattern	graduated cylinder	start of each production run	+-1.0	n/a
189	screen	S-4	No					
189	flash booth	MISC-1 TO MISC-3	No					
189	dry pan	G-3	Yes	use number of minutes raw material is fed to dry pan	timer	Hourly	+-5.0	Monthly
189	Tunnel kiln	TK-1 TO TK-4	Yes	manual count of number of kiln cars entering kiln	manual count & manually logged	every kiln push (85min)	+-0.0	n/a
189	pug mill	MW-1 TO MW-4	Yes	manual count of pieces produced (cut) per minute	manual count	every half hour	+-1.0	n/a
189	dry pan	G-4	Yes	use number of minutes raw material is fed to dry pan	timer	Hourly	+-5.0	Monthly
189	screen	S-3	No					

TABLE 11. SUMMARY

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
1	tunnel kiln	tk-2	tk	1			dls-1			True	No
1	dryer	dc-1	dc	1	us-1					False	No
1	dryer	dc-2	dc	1	us-3					False	No
1	predryer	misc-1	predryer	1	fe-5					False	No
1	extruder	fw-1	extruder	1	fe-4					False	No
1	tunnel kiln	tk-1	tk	1	US-2					True	No
1	pug mill	mw-1	mw	1	fe-3					False	No
1	Reclaimer	MH-1	mh	1	fe-2					False	No
1	Screens (8)	S-1	s	8		bh-1				False	No
1	Grinders	G-1	g	1		bh-1				False	No
1	Primary crusher	cr-1	cr	1	fe-6					False	No
1	color/texture applicator	cta-1	cta	1		bh-2				False	No
1	Coal storage bin	misc-2	misc	1		bh-3				False	No
1	Coal pulverizing system	cc-1	cc	1		bh-3				False	No
2	dryer	dc-1	dc	1	us-1					False	No
2	extruder	fw-1	extruder	1	fe-7					False	No
2	color/texture	cta-1	cta	1	fe-8					False	No
2	kiln	tk-1	tk	1	us-2					False	No
2	mixing	mw-1	mw	1	fe-6					False	No
2	storage	mh-2	mh	1	fe-5					False	No
2	storage	mh-1	mh	1	fe-2					False	No
2	screen	s-1	s	1	fe-1					False	No
2	screen	s-2	s	1	fe-4					False	No
2	grinder	g-1	g	1	fe-3					False	No
3	extruder	fw-1, fw-2	extruder	2	fe-3, fe-4					False	No
3	mixer	mw-1, mw-2	mw	2	fe-1, fe-2					False	No
3	tunnel kiln	tk-1	tk	1	us-2					False	No
3	screen	s-1 to s-8	s	8		bh-1				False	No
3	crusher	cr-1	cr	1		bh-1				False	No
3	dryer	dc-1	dc	1	us-1					False	No
3	grinder	g-1, g-2	g	2		bh-1				False	No
4	crusher	cr-1	cr	1	fe-1					False	No
4	tunnel kiln	tk-1	tk	1	us-2					False	No
4	pug mill	mw-1	mw	1	fe-5					False	No
4	screen	s-1	s	1	fe-3					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
4	grinder	g-1	g	1	fe-2					False	No
4	extruder	fw-1	extruder	1	fe-4					False	No
4	dryer	dc-1	dc	1	us-1					False	No
4	drying room	misc-1 - misc-9	predryer	9	fe-6 - fe-14					False	No
5	dryer	dc-2	dc	1	us-3					False	No
5	tunnel kiln	tk-2	tk	1	us-5					False	No
5	tunnel kiln	tk-1	tk	1	us-4					False	No
5	holding room	misc-2	predryer	1	us-1					False	No
5	dryer	dc-1	dc	1	us-2					False	No
5	crushing	cr-1	cr	1	fe-1					False	No
5	cutting	misc-1	misc	1	fe-6					False	No
5	color/texturing	cta-1	cta	1	fe-5					False	No
5	storage bins	ru-1	ru	1	fe-2					False	No
5	mixing	mw-1	mw	1	fe-3					False	No
5	extruding	fw-1	extruder	1	fe-4					False	No
5	grinder	g-1	g	1		bhi-1				False	No
5	screens	s-1	s	1		bhi-1				False	No
6	wet mixing	mw-1	mw	1	fe-6					False	No
6	dryer	dc-2	dc	1	us-4					False	No
6	dryer	dc-4	dc	1	us-6					False	No
6	dryer	dc-3	dc	1	us-5					False	No
6	dryer	dc-1	dc	1	us-3					False	No
6	tunnel kiln	tk-2	tk	1	us-8					False	No
6	tunnel kiln	tk-1	tk	1	us-7					False	No
6	cutting	misc-2	misc	1	fe-9					False	No
6	holding room	misc-3	predryer	1	us-1 to us-2					False	No
6	coloring/texture	cta-1	cta	1	fe-8					False	No
6	storage bins	ru-1	ru	1	fe-5					False	No
6	screening	s-1	s	1	fe-4					False	No
6	crushing	cr-1	cr	1	fe-2					False	No
6	extruding	fw-1	extruder	1	fe-7					False	No
6	grinding	g-1	g	1	fe-3					False	No
7	extruding	fw-1	extruder	1	fe-6					False	No
7	pug mill	mw-1	mw	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
7	dryer	dc-3	dc	1	us-4					False	No
7	dryer	dc-2	dc	1	us-3					False	No
7	dryer	dc-1	dc	1	us-2					False	No
7	dryer	dc-4	dc	1	us-5					False	No
7	surge bin	md-1	md	1	fe-4					False	No
7	texturing and sand coating	cta-1	cta	1		bhi-1				False	No
7	roll crusher	cr-1	cr	1	fe-3					False	No
7	sawdust clay feeder	mh-1	mh	1	fe-2					False	No
7	covered stock pile	ru-1	ru	1	fe-1					False	No
7	holding room	misc-2	predryer	1	us-1					False	No
7	holding room	misc-1	predryer	1	fe-7					False	No
7	dryer	dc-5	dc	1	us-6					False	No
7	dryer	dc-6	dc	1	us-7					False	No
7	tunnel kiln	tk-2	tk	1	us-9					False	No
7	tunnel kiln	tk-1	tk	1	us-8					False	No
8	storage tank	st-1	s	1		bh-1				False	No
8	tunnel kiln-idle	tk-2	tk-idle	1	us-4					False	No
8	dryer	dc-2	dc	1	us-2					False	No
8	grinders	g-1 to g-2	g	2		bh-1, bh-2				False	No
8	clay storage	ru-1	ru	1	fe-3					False	No
8	cutting/setting	misc-1	misc	1	fe-5					False	No
8	color and texture	cta-1	cta	1	fe-4					False	No
8	clay storage	st-1	s	1		bh-1				False	No
8	crushing	cr-1	cr	1	fe-2					False	No
8	stock piling	ru-1	ru	1	fe-1					False	No
8	tunnel kiln	tk-1	tk	1	us-3					False	No
8	screens	s-1 to s-6	s	6		bh-2				False	No
8	pre-dryer	dc-1	dc	1	us-1					False	No
8	sand dryer	dr-1	dr-sand	1		bhi-1				False	No
8	hand-pressed shapes	fw-3	molding	1		bh-5				False	No
8	brick tray loading/unloading/setting	misc-2	misc	1		bh-4				False	No
8	extruding	fw-1	extruder	1		bh-1				False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
8	pug mills	mw-1 to mw-3	mw	3		bh-1,bh-3,bh-4				False	No
8	sand mold machine	fw-2	molding	1		bh-4				False	No
8	additive feeders	mh-1	mh	1		bh-1				False	No
9	crusher	cr-1	cr	1	fe-1					False	No
9	tunnel kiln	tk-1	tk	1				da-1		True	No
9	tunnel kiln	tk-2	tk	1				da-1		True	No
9	screens	s-1 to s-2	s	2	fe-3					False	No
9	extruder	fw-1	extruder	1	fe-6					False	No
9	dryer	DC-1	dc	1	US-3					False	No
9	dryer	dc-2	dc	1	us-4					False	No
9	color application	cta-1	cta	1	fe-7					False	No
9	storage	mh-1	mh	1	fe-4					False	No
9	mixer	mw-1	mw	1	fe-5					False	No
9	grinder	g-1	g	1	fe-2					False	No
10	cutting	misc-1	misc	1	fe-8					False	No
10	screening	s-1	s	1	fe-3					False	No
10	wet mixing	mw-1	mw	1	fe-5					False	No
10	storage	ru-1	ru	1	fe-4					False	No
10	grinding	g-1	g	1	fe-2					False	No
10	crushing	cr-1	cr	1	fe-1					False	No
10	dryer	dc-2	dc	1	us-3 to us-4					False	No
10	extruding	fw-1	extruder	1	fe-6					False	No
10	dryer	dc-1	dc	1	us-1 to us-2					False	No
10	tunnel kiln	tk-1	tk	1	us-5					False	No
10	tunnel kiln	tk-2	tk	1	us-6					False	No
10	coloring and texturing	cta-1	cta	1	fe-7					False	No
11	grinding	g-1	g	1	fe-4					False	No
11	setting	misc-1	misc	1	fe-10					False	No
11	coloring/texturing	cta-1	cta	1	fe-9					False	No
11	extruding	fw-1	extruder	1	fe-8					False	No
11	mixing	mw-1	mw	1	fe-7					False	No
11	ground material storage	ru-3	ru	1	fe-6					False	No
11	screening	s-1	s	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
11	tunnel dryer	dc-1	dc	1	us-1					False	No
11	raw material storage	ru-2	ru	1	fe-3					False	No
11	crushing	cr-1	cr	1	fe-2					False	No
11	stock pile	ru-1	ru	1	fe-1					False	No
11	sand mixer	md-1	md	1	us-4					False	No
11	tunnel kiln	tk-1	tk	1	us-3					True	No
11	preheater	misc-2	predryer	1	us-2					False	No
12	add/coating storage	ru-3	ru	1	fe-20					False	No
12	grog crusher	cr-2	grog cr	1	fe-17					False	No
12	holding room	misc-6	predryer	1	us-2 to us-5					False	No
12	dryer	dc-1	dc	1	us-6, us-7					False	No
12	tunnel kiln	tk-1	tk	1	us-8					False	No
12	tunnel kiln	tk-2	tk	1	us-9					False	No
12	dryer	dc-2	dc	1	us-6, us-7					False	No
12	dryer	dc-3	dc	1	us-6, us-7					False	No
12	dryer	dc-4	dc	1	us-6, us-7					False	No
12	clay unloading	ru-1	ru	1	fe-1					False	No
12	crushing	cr-1	cr	1	fe-2					False	No
12	covered stack piles	ru-2	ru	1	fe-3					False	No
12	raw material feeder	mh-1	mh	1	fe-4					False	No
12	disintegrating	g-1	g	1	fe-5					False	No
12	off spec. brick storage	ru-5	ru	1	fe-15					False	No
12	sand storage	ru-4	ru	1	fe-22					False	No
12	hoppers	mh-3	mh	1	fe-21					False	No
12	sawdust unload	ru-6	ru	1	fe-19					False	No
12	grog screen	misc-1	misc	1	fe-18					False	No
12	sand dryer	dr-1	dr-sand	1	us-1					False	No
12	apron feeder	mh-4	mh	1	fe-16					False	No
12	cutting/setting	misc-5	misc	1	fe-13					False	No
12	smooth rolling	misc-3	misc	1	fe-6					False	No
12	disintegrating	g-2	g	1	fe-7					False	No
12	additives feeder	mh-2	mh	1	fe-8					False	No
12	wet mixer	mw-1	mw	1	fe-9					False	No
12	wet mixer	mw-2	mw	1	fe-10					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
12	extruder	fw-1	extruder	1	fe-11					False	No
12	color/texturing	cta-1	cta	1	fe-12					False	No
13	texturing/coloring	cta-1	cta	1	fe-44					False	No
13	weigh feeders	mh-1 to mh-14	mh	15	fe-13 to fe-26					False	No
13	screens	s-1 to s-6	s	6	fe-31 to fe-36					False	No
13	tunnel kiln	tk-1	tk	1				da-1		True	No
13	storage bins	ru-14 to ru-20	ru	7	fe-50 to fe-56					False	No
13	grog crusher	cr-5	grog cr	1	fe-49					False	No
13	brick batts	mh-17	mh	1	fe-48					False	No
13	holding room	misc-3	predryer	1	fe-47					False	No
13	sand mixing	md-1	md	1	fe-46					False	No
13	cutting/setting	misc-2	misc	1	fe-45					False	No
13	front end loader	misc-1	misc	1	fe-12					False	No
13	extruding	fw-1	extruder	1	fe-43					False	No
13	pug mill	mw-1	mw	1	fe-42					False	No
13	additive feeder	cta-1	cta	1	fe-41					False	No
13	ground stroage bins	ru-10 to ru-13	ru	4	fe-37 to fe-40					False	No
13	crusher	cr-1 to cr-2	cr	2	fe-1 to fe-2					False	No
13	Hammer Mills	g-1,g-2	g	2	fe-29 to fe-30					False	No
13	suge bins	mh-15 to mh-16	mh	2	fe-27 to fe-28					False	No
13	Tunnel Dryer	dc-4	dc	1	us-4					False	No
13	raw material storage	ru-1 to ru-9	ru	9	fe-3 to fe-11					False	No
13	Tunnel dryer	dc-1	dc	1	us-1					False	No
13	Sand dryer	dr-1	dr-sand	1	us-5					False	No
13	Tunnel Dryer	dc-2	dc	1	us-2					True	No
13	Tunnel Dryer	dc-3	dc	1	us-3					False	No
13	tunnel kiln	tk-2	tk	1				da-1		True	No
14	mixer	mw-1	mw	1	fe-4					False	No
14	dryer	dc-1	dc	1	us-1					False	No
14	crusher	cr-1	cr	1	fe-1					False	No
14	grinding room	gs-1	gs	1	fe-2					False	No
14	tunnel kiln	tk-1	tk	1	us-2					False	No
14	color application	cta-1	cta	1	fe-6					False	No
14	extruder	fw-1	extruder	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
14	storage	mh-1	mh	1	fe-3					False	No
15	dryer	dc-1	dc	1	us-1					False	No
15	tunnel kiln	tk-1	tk	1	us-2					False	No
15	crusher	cr-1	cr	1	fe-1					False	No
15	grinder	g-1	g	1	fe-2					False	No
15	screen	s-1	s	1	fe-3					False	No
15	storage	mh-1	mh	1	fe-4					False	No
15	mixer	mw-1	mw	1	fe-5					False	No
15	extruder	fw-1	extruder	1	fe-6					False	No
15	color application	cta-1	cta	1	fe-7					False	No
16	tunnel kiln	tk-1	tk	1	us-3					True	No
16	hammermill	g-1	g	1	fe-1					False	No
16	extruder	fw-1	extruder	1	fe-3					False	No
16	mixer	mw-1	mw	1	fe-2					False	No
16	coating application	cta-1	cta	1		bh-1				False	No
16	holding room	misc-1	predryer	1	us-4					False	No
16	dryer	dc-1	dc	1	us-1 to us-2					False	No
17	tunnel kiln	tk-1	tk	1	us-3					True	No
17	crusher	cr-1	cr	1	fe-1					False	No
17	hammermill	g-1	g	1		bh-1				False	No
17	mixer	mw-1	mw	1	fe-2					False	No
17	extruder	fw-1	extruder	1	fe-3					False	No
17	coating applicator	cta-1	cta	1		bh-2				False	No
17	holding room	misc-1	predryer	1	us-1					False	No
17	dryer	dc-1	dc	1	us-2					False	No
18	dryer	dc-1	dc	1	us-2					False	No
18	dryer	dc-2	dc	1	us-3					False	No
18	extruder	fw-1	extruder	1	fe-3					False	No
18	mixer	mw-1	mw	1	fe-2					False	No
18	kiln	tk-1	tk	1	us-1					False	No
18	screen	s-1	s	1		bh-1				False	No
18	storage	mh-1	mh	1	fe-1					False	No
18	grinding	g-1	g	1		bh-1				False	No
19	dryer	dc-2	dc	1	us-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
19	cutter/setting	misc-1	misc	1	fe-10					False	No
19	color/texture applicator	cta-1	cta	1		bh-1 to bh-3				False	No
19	dryer	dc-4	dc	1	us-4					False	No
19	mixer	mw-1	mw	1	fe-8					False	No
19	storage	mh-1 to mh-8	mh	8	fe-6 to fe-7					False	No
19	extruder	fw-1	extruder	1	fe-9					False	No
19	grinding	g-1 to g-2	g	2	fe-2 to fe-5					False	No
19	crushing	cr-1	cr	1	fe-1					False	No
19	screens	s-1 to s-5	s	5	fe-2 to fe-5					False	No
19	dryer	dc-3	dc	1	us-3					False	No
19	brick kiln	tk-4	tk	1	us-8					False	No
19	dryer	dc-1	dc	1	us-1					False	No
19	brick kiln	tk-2	tk	1	us-6					False	No
19	brick kiln	tk-1	tk	1	us-5					False	No
19	brick kiln	tk-3	tk	1	us-7					False	No
20	grinders	g-1 to g-2	g	2		bh-1 to bh-2				False	No
20	raw material storage piles	os-1	misc	1					ws-1	False	No
20	raw clay feed bins	ru-1 to ru-3	ru	3	fe-4 to fe-6					False	No
20	brick machine--extruder	fw-1 to fw-2	extruder	2	fe-7, fe-8					False	No
20	brick cutting	misc-1, misc-2	misc	2	fe-1, fe-2					False	No
20	brick machine--extruder	fw-3	extruder	1	fe-9					False	No
20	tunnel kiln dryer	dc-1	dc	1	us-3 to us-5					False	No
20	roller kiln	tk-2	tk	1	us-7 to us-9					False	No
20	screen	s-3	s	1		bh-3				False	No
20	holding room	misc-4	predryer	1	us-6					False	No
20	grinder	g-3	g	1		bh-3				False	No
20	ground clay storage bins	mh-1 to mh-2	mh	2		bh-1 to bh-2				False	No
20	brick machine--mixer	mw-3	mw	1		bh-3				False	No
20	ground clay storage bins	mh-3	mh	1		bh-3				False	No
20	brick machine mixer	mw-1 to mw-2	mw	2		bh-4				False	No
20	screens	s-1 to s-2	s	2		bh-1 to bh-2				False	No
20	tunnel kiln	tk-1	tk	1	us-1, us-2					False	No
20	roller kiln dryer	dc-2	dc	1	us-11 to us-18					False	No
20	brick cutting	misc-5	misc	1	fe-3					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
21	forming	fw-1	extruder	1	fe-6					False	No
21	screen	s-1	s	1	fe-1					False	No
21	periodic kiln	pk-1	pk	1	us-1					False	No
21	periodic kiln	pk-2	pk	1	us-2					False	No
21	periodic kiln	pk-3	pk	1	us-3					False	No
21	periodic kiln	pk-4	pk	1	us-4					False	No
21	periodic kiln	pk-5	pk	1	us-5					False	No
21	periodic kiln	pk-6	pk	1	us-6					False	No
21	drying room	misc-1 to misc-4	predryer	4	fe-2					False	No
21	mixer	md-1	md	1	fe-3					False	No
21	press	fd-1	fd	1	fe-4					False	No
21	grinder	g-2	g	1	fe-1					False	No
21	screen	s-2	s	1	fe-1					False	No
21	mixer	mw-1	mw	1	fe-5					False	No
21	grinding	g-1	g	1	fe-1					False	No
22	pug mill	mw-1	mw	1		bh-1				False	No
22	crusher	cr-1	cr	1	fe-1					False	No
22	storage	mh-1	mh	1	fe-2					False	No
22	grinder	g-1	g	1		bh-1				False	No
22	screen	s-1	s	1		bh-1				False	No
22	silos	mh-2 to mh-4	mh	3		bh-1				False	No
22	storage tank	st-1	s	1	fe-3					False	No
22	extrusion	fw-1	extruder	1	fe-5					False	No
22	spray booth	cta-1	cta	1	fe-4					False	No
22	dryer	dc-1	dc	1	us-3					False	No
22	dryer	dc-2	dc	1	us-4					False	No
22	kiln	tk-1	tk	1	us-1					False	No
22	kiln	tk-2	tk	1	us-2					False	No
23	grinding	g-1	g	1	fe-2					False	No
23	screening	s-1	s	1	fe-2					False	No
23	sand coating tile	cta-1	cta	1		bh-1				False	No
23	sand coating brick	cta-2	cta	1		bh-2				False	No
23	tunnel kiln 2-1	tk-1	tk	1	us-1					False	No
23	tunnel kiln 2-2	tk-2	tk	1	us-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
23	tunnel kiln 3	tk-3	tk	1	us-3					True	No
23	grinding	g-3	g	1	fe-5					False	No
23	screening	s-2	s	1	fe-6					False	No
23	periodic kiln-idle	pk-1	pk	1	us-4					False	No
23	grog crusher	cr-1	grog cr	1	fe-7					False	No
23	grog crusher generator	misc	misc	1	fe-8					False	No
23	glazing line	gz-1	gz	1		bh-3				False	No
23	roller hearth kiln (glaze set kiln)	misc-1	glaze set kiln	1	us-12					False	No
23	storage/handling	mh-1	mh	1	fe-1					False	No
23	storage	mh-2	mh	1	fe-4					False	No
23	storage	mh-3	mh	1	fe-9					False	No
23	dryers	dc-1	dc	1	us-13					False	No
23	dryer	dc-2	dc	1	us-15					False	No
23	dryer	dc-3	dc	1	us-14					False	No
23	periodic kiln-idle	pk-2	pk	1	us-4					False	No
23	periodic kiln-idle	pk-3	pk	1	us-5					False	No
23	periodic kiln-idle	pk-4	pk	1	us-6					False	No
23	periodic kiln-idle	pk-5	pk	1	us-7					False	No
23	periodic kiln-idle	pk-6	pk	1	us-8					False	No
23	periodic kiln-idle	pk-7	pk	1	us-9					False	No
23	periodic kiln-idle	pk-8	pk	1	us-10					False	No
23	periodic kiln-idle	pk-9	pk	1	us-11					False	No
24	disc mill	g-2	g	1		bh-1				False	No
24	grinding	g-1	g	1	fe-3					False	No
24	tunnel kiln	tk-1	tk	1	us-2					False	No
24	tunnel dryer	dc-1	dc	1	us-1					False	No
24	screen	s-3	s	1		bh-1				False	No
24	tunnel dryer	dc-2	dc	1	us-3					False	No
24	tunnel kiln	tk-2	tk	1	us-4					False	No
24	crusher	cr-1	cr	1	fe-1					False	No
24	storage	mh-1 - mh-5	mh	5	fe-2, fe-5, fe-8					False	No
24	hammer mill	g-3	g	1		bh-1				False	No
24	screen	s-1, s-2	s	2	fe-4					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
24	mixing	mw-1, mw-2	mw	2	fe-6, fe-9					False	No
24	extruders	fw-1, fw-2	extruder	2	fe-7, fe-10					False	No
25	dryer	dc-2	dc	1	us-2					False	No
25	dryer	dc-3	dc	1	us-3					False	No
25	dryer	dc-4	dc	1	us-4					False	No
25	dryer	dc-1	dc	1	us-1					False	No
25	dryer	dc-5	dc	1	us-5					False	No
25	kiln	tk-1	tk	1	us-10					False	No
25	kiln	tk-2	tk	1	us-9					False	No
25	kiln	tk-3	tk	1	us-8					False	No
25	kiln	tk-4	tk	1	us-7					False	No
25	kiln	tk-5	tk	1	us-6					False	No
25	crusher	cr-1	cr	1	fe-1					False	No
25	storage	mh-1	mh	1	fe-2					False	No
25	grinding	g-1	g	1	fe-3					False	No
25	screening	s-1	s	1	fe-4					False	No
25	storage	mh-2	mh	1	fe-5					False	No
25	storage	mh-3	mh	1	fe-6					False	No
25	mixing	mw-1	mw	1	fe-9					False	No
25	extruder	fw-1	extruder	1	fe-10					False	No
25	color/texture	cta-1	cta	1	fe-11					False	No
25	rotary dryer	dr-1	dr-sand	1				sc-1,us-11		False	No
25	mixer	mw-2	mw	1	fe-12					False	No
25	mixer	md-1	md	1	fe-8					False	No
25	grinder	g-2	g	1	fe-13					False	No
26	color/texture	cta-1	cta	1		bh-1				False	No
26	grinding/screening	gs-1	gs	1	fe-2					False	No
26	storage	mh-2	mh	1	fe-3					False	No
26	storage	mh-3	mh	1	fe-4					False	No
26	mixing	mw-1	mw	1	fe-5					False	No
26	mixing	md-1	md	1		bhi-1				False	No
26	forming	fw-1	extruder	1	fe-6					False	No
26	storage	mh-1	mh	1	fe-1					False	No
26	color/texture	cta-2	cta	1	fe-7					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
26	rotary dryer	dr-1	dr-sand	1	us-3					False	No
26	hammermill	g-2	g	1	fe-8					False	No
26	dryer	dc-1	dc	1	us-1					False	No
26	kiln	tk-1	tk	1	us-2					False	No
26	screens	s-1	s	7	fe-2					False	No
27	storage	mh-1	mh	1	fe-1					False	No
27	grinders/screen	gs-1	gs	1	fe-2					False	No
27	pug mill	mw-1	mw	1	fe-4					False	No
27	brick machine	fw-1	extruder	1	fe-5					False	No
27	color application	cta-1	cta	1		bh-1				False	No
27	color application	cta-2	cta	1	fe-6					False	No
27	mixer	md-1	md	1		bh-1				False	No
27	dryer	dc-1	dc	1	us-1					False	No
27	kiln	tk-1	tk	1	us-2					False	No
27	storage	mh-2	mh	1	fe-3					False	No
28	storage	mh-1	mh	1	fe-2					False	No
28	grinder/screen	gs-1	gs	1	fe-3					False	No
28	mixer	mw-1	mw	1	fe-4					False	No
28	brick machine	fw-1	extruder	1	fe-6					False	No
28	crusher	cr-1	cr	1	fe-1					False	No
28	mixer	md-1	md	1	fe-5					False	No
28	sand blaster	cta-2	cta	1		bh-1				False	No
28	color application	cta-1	cta	1	fe-7					False	No
28	kiln	tk-1	tk	1	us-1					False	No
28	dryer	dc-1	dc	1	us-2					False	No
29	extruder	fw-1	extruder	1	fe-3					False	No
29	kiln	tk-1	tk	1	us-1					False	No
29	dryer	dc-1	dc	1	us-2					False	No
29	crusher	cr-1	cr	1	fe-1					False	No
29	grinder/screen	gs-1	gs	1	fe-1					False	No
29	color application	cta-1	cta	1	fe-1					False	No
29	mixer	md-1	md	1	fe-1					False	No
29	mixer	mw-1	mw	1	fe-2					False	No
30	color application	cta-1	cta	1		bh-1				False	Yes

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
30	extruder	fw-1	extruder	1	fe-5					False	No
30	sand colorant mixer	md-1	md	1		bh-1				False	No
30	screen	s-1	s	1	fe-2					False	No
30	mixer	mw-1	mw	1	fe-4					False	No
30	dryer	dc-2	dc	1	us-4					False	No
30	dryer	dc-1	dc	1	us-3					False	No
30	grind/screen	gs-1	gs	1		bh-1				False	No
30	conveyor	mh-1	mh	1	fe-3					False	No
30	crusher	cr-2	cr	1		bh-1				False	No
30	kiln	tk-2	tk	1	us-2					False	No
30	crusher	cr-1	cr	1	fe-1					False	No
30	kiln	tk-1	tk	1	us-1					False	No
31	dryer	dc-6	dc	1	us-8					False	No
31	dryer	dc-5	dc	1	us-7					False	No
31	dryer	dc-7	dc	1	us-9					False	No
31	slurry applicator	cta-5 to cta-6	cta	2	fe-32 to fe-33					False	No
31	grind/screen	gs-3	gs	1	fe-29					False	No
31	dryer	dc-8	dc	1	us-10					False	No
31	blending	md-2	md	1	fe-28					False	No
31	storage	mh-6 to mh-7	mh	2	fe-26 to fe-27					False	No
31	sand applicator	cta-7 to cta-8	cta	2	fe-34 to fe-35					False	No
31	silo	ru-1	ru	1	fe-30					False	No
31	mixer	mw-3 to mw-4	mw	2	fe-36 to fe-37					False	No
31	mixer	md-3	md	1	fe-40					False	No
31	crusher	cr-3	cr	1	fe-25					False	No
31	hopper	mh-8	mh	1	fe-31					False	No
31	tunnel kiln	tk-4	tk	1				da-1		True	No
31	tunnel kiln	tk-3	tk	1				da-1		False	No
31	extruder	fw-3 to fw-4	extruder	2	fe-38 to fe-39					False	No
31	dryer	dc-1	dc	1	us-1					False	No
31	hoppers	mh-4 to mh-5	mh	2	fe-9 to fe-10					False	No
31	tunnel kiln	tk-1	tk	1	us-5					True	No
31	extruder	fw-1 to fw-2	extruder	2	fe-23 to fe-24					False	No
31	mixer	mw-1 to mw-2	mw	2	fe-21 to fe-22					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
31	crusher	cr-1 to cr-2	cr	2	fe-1 to fe-2					False	No
31	storage	mh-1 to mh-2	mh	2	fe-3 to fe-4					False	No
31	blending	md-1	md	1	fe-5					False	No
31	grinding/screening	gs-1 to gs-2	gs	2	fe-6 to fe-7					False	No
31	storage	mh-3	mh	1	fe-8					False	No
31	dryer	dc-4	dc	1	us-4					False	No
31	slurry applictor	cta-1 to cta-2	cta	2	fe-11 to fe-12					False	No
31	sand applicator	cta-3 to cta-4	cta	2	fe-13 to fe-14					False	No
31	predryers	misc-1 to misc-6	predryer	6	fe-15 to fe-20					False	No
31	dryer	dc-3	dc	1	us-3					False	No
31	dryer	dc-2	dc	1	us-2					False	No
31	tunnel kiln	tk-2	tk	1	us-6					False	No
32	crusher	cr-1	cr	1	fe-3					False	No
32	storage	mh-3	mh	1	fe-4					False	No
32	storage	mh-4, mh-5	mh	2	fe-6, fe-7					False	No
32	hopper	mh-1, mh-2	mh	2	fe-1, fe-2					False	No
32	brick machine	fw-1, fw-2	extruder	2	fe-31, fe-32					False	No
32	grinding/screening	gs-1	gs	1	fe-5					False	No
32	texturing	cta-3, cta-4	cta	2	fe-11 to fe-12					False	No
32	dryer	dc-1	dc	1	us-1					False	No
32	dryer	dc-2	dc	1	us-2					False	No
32	dryer	dc-3	dc	1	us-3					False	No
32	dryer	dc-4	dc	1	us-4					False	No
32	dryer	dc-5	dc	1	us-5					False	No
32	dryer	dc-6	dc	1	us-6					False	No
32	dryer	dc-7	dc	1	us-7					False	No
32	dryer	dc-8	dc	1	us-8					False	No
32	predryer	misc-1 to misc-16	predryer	16	fe-15 to fe-30					False	No
32	texturing	cta-5, cta-6	cta	2	fe-13, fe-14					False	No
32	hopper	mh-6, mh-7	mh	2	fe-8, fe-9					False	No
32	hopper	mh-8	mh	1	fe-10					False	No
32	tunnel kiln	tk-3	tk	1	us-11					True	No
32	tunnel kiln	tk-1	tk	1	us-9					True	No
32	tunnel kiln	tk-2	tk	1	us-10					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
33	periodic kiln	pk-4	pk	1	us-2					False	No
33	periodic kiln	pk-5	pk	1	us-3					False	No
33	periodic kiln	pk-1	pk	1	us-1					False	No
33	extrusion machine	fw-1	extruder	1	fe-3					False	No
33	periodic kiln	pk-7	pk	1	us-4					False	No
33	periodic kiln	pk-6	pk	1	us-3					False	No
33	periodic kiln	pk-2	pk	1	us-1					False	No
33	periodic kiln	pk-8	pk	1	us-4					False	No
33	storage	mh-1	mh	1	fe-1					False	No
33	coal store	mh-1	mh	1	fe-5					False	No
33	periodic kiln	pk-11	pk	1	us-6					False	No
33	periodic kiln	pk-10	pk	1	us-5					False	No
33	periodic kiln	pk-9	pk	1	us-5					False	No
33	dryer	dc-1	dc	1	fe-4, us-7					False	No
33	grinder	gs-1	gs	1	fe-2					False	No
33	periodic kiln	pk-3	pk	1	us-2					False	No
34	kiln	tk-2	tk	1	us-7, us-8					False	No
34	extruder	fw-1	extruder	1	fe-5					False	No
34	mixer	mw-1	mw	1	fe-4					False	No
34	grinder/screen	gs-1	gs	1	fe-2					False	No
34	crusher	cr-1	cr	1	fe-1					False	No
34	color application	cta-1	cta	1	fe-6					False	No
34	kiln	tk-1	tk	1	us-5, us-6					False	No
34	dryer	dc-3	dc	1	us-3, us-4					False	No
34	dryer	dc-2	dc	1	us-2					False	No
34	dryer	dc-1	dc	1	us-1					False	No
34	storage	mh-1	mh	1	fe-3					False	No
35	mixer	mw-1	mw	1	fe-8					False	No
35	extruder	fw-1	extruder	1	fe-9					False	No
35	tunnel kiln	tk-1	tk	1	us-1					False	No
35	tunnel kiln	tk-2	tk	1	us-2					False	No
35	dryer	dc-1	dc	1	us-3					False	No
35	dryer	dc-2	dc	1	us-4					False	No
35	testing	cta-1	cta	1	fe-4					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
35	sand mixer	md-1	md	1	fe-5					False	No
35	crusher	cr-2	cr	1	fe-6					False	No
35	crusher	cr-1	cr	1	fe-1					False	No
35	screens	s-1 to s-3	s	3	fe-2					False	No
35	storage	mh-1 to mh-3	mh	3	fe-3					False	No
35	grinder	g-1	g	1	fe-7					False	No
36	tunnel kiln	tk-1	tk	1	us-5					False	No
36	dryer	dc-1	dc	1	us-1					False	No
36	dryer	dc-2	dc	1	us-2					False	No
36	dryer	dc-4	dc	1	us-4					False	No
36	crusher	cr-1	cr	1	fe-1					False	No
36	grinder	g-1	g	1	fe-2					False	No
36	screen	s-1 to s-3	s	3	fe-3					False	No
36	storage	mh-1	mh	1	fe-4					False	No
36	texturing	cta-1	cta	1	fe-5					False	No
36	mixer	mw-1	mw	1	fe-6					False	No
36	extruder	fw-1	extruder	1	fe-7					False	No
36	dryer	dc-3	dc	1	us-3					False	No
37	tunnel kiln	tk-1	tk	1	us-2					False	No
37	dryer	dc-1	dc	1	us-1					False	No
37	mining	mn-1	misc	1	fe-1					False	No
37	grinding	g-1	g	1	fe-2					False	No
37	screening	s-1 to s-4	s	4	fe-2					False	No
37	storage	mh-1 to mh-4	mh	4	fe-3					False	No
37	mixing	mw-1	mw	1	fe-2					False	No
37	extruding	fw-1	extruder	1	fe-5					False	No
38	periodic kiln-idle	pk-3	pk	1	us-4					False	No
38	color application	cta-1	cta	1	fe-5					False	No
38	forming	fw-1	extruder	1	fe-4					False	No
38	dryer	DP-4	dp	1	US-1					False	No
38	dryers	dp-1	dp	1	us-1					False	No
38	dryer	DP-3	dp	1	US-1					False	No
38	periodic kiln	pk-1	pk	1	us-2					False	No
38	storage	mh-1	mh	1	fe-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
38	mixing	mw-1	mw	1	fe-3					False	No
38	dryer	DP-2	dp	1	US-1					False	No
38	grinder/screen	gs-1	gs	1	fe-1					False	No
38	periodic kiln	pk-2	pk	1	us-3					False	No
39	tunnel kiln	tk-1	tk	1	us-3					False	No
39	grinder/screen	g-1, s-1, s-2	g	3	fe-1					False	No
39	pugmill	mw-1	mw	1	fe-2					False	No
39	coloring and texturing	cta-1	cta	1	fe-4					False	No
39	brick dryer	dc-1	dc	1	us-1, us-2					False	No
39	crushing	cr-1	cr	1	fe-1					False	No
39	extruder	fw-1	extruder	1	fe-3					False	No
39	storage	mh-1 to mh-4	mh	4	fe-1					False	No
40	storage	mh-1	mh	1	fe-3					False	No
40	sawdust storage	mh-3	mh	1	fe-9					False	No
40	storage	os-1	misc	1	fe-1					False	No
40	grinding/screening	gs-1	gs	1	fe-2					False	No
40	mixing	mw-1	mw	1	fe-4					False	No
40	extruding	fw-1	extruder	1	fe-5					False	No
40	dryer	dc-1	dc	1	us-1, us-2					False	No
40	tunnel kiln	tk-1	tk	1	us-3				ds-1	False	No
40	sawdust storage	ru-1	ru	1	fe-6					False	No
40	sawdust storage	mh-2	mh	1	fe-8					False	No
40	sawdust dryer	ds-1	ds	1	us-4					False	No
40	sawdust grinding and screening	misc-2	misc	1		bh-1				False	No
40	sawdust screen	misc-1	s	1	fe-7					False	No
41	coloring/texturing	cta-1	cta	1	fe-2					False	No
41	dryer	dc-2	dc	1	us-2					False	No
41	tunnel kiln	tk-1	tk	1	us-3					False	No
41	crusher	cr-1	cr	1	fe-1					False	No
41	grinders	g-1, g-2	g	2	fe-1					False	No
41	screens	s-1 to s-7	s	7	fe-1					False	No
41	storage	mh-1 to mh-6	mh	6	fe-1					False	No
41	premixing	md-1	md	1	fe-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
41	metering feeder	mh-7	mh	1		bh-1				False	No
41	mixing	mw-1	mw	1		bh-1				False	No
41	batch mixers (colors)	md-2 to md-6	md	5		bh-1				False	No
41	sand transfer system	mh-8	mh	1					oc-1 (homemade bubbler)	False	No
41	dryer	dc-1	dc	1	us-1					False	No
41	extruding	fw-1	extruder	1	fe-3					False	No
42	hammer mill	g-2	g	1	fe-2					False	No
42	crusher	cr-1	cr	1	fe-1					False	No
42	grinder	g-1	g	1	fe-2					False	No
42	color/texture	cta-1	cta	1		bh-1				False	No
42	screens	s-1 to s-6	s	6	fe-2					False	No
42	storage bins	mh-1 to mh-2	mh	2	fe-3					False	No
42	brick machine	mw-1, fw-1	extruder	1	fe-4					False	No
42	tunnel kiln	tk-1	tk	1	us-2					False	No
42	tunnel dryer	dc-1	dc	1	us-1					False	No
43	grinder	g-1	g	1	fe-4					False	No
43	dryer	dc-1	dc	1	us-1					False	No
43	tunnel kiln	tk-1	tk	1	us-2				ds-1	False	No
43	conveyor belts	mh-1 to mh-5,mh-7	mh	6	fe-2, fe-5,fe-7 to fe-9, fe-12					False	No
43	primary crusher	cr-1	cr	1	fe-1					False	No
43	scalping screen	s-1	s	1	fe-3					False	No
43	extruding	fw-1	extruder	1	fe-15					False	No
43	finishing screens	s-2	s	4	fe-6					False	No
43	hammermill	g-2	g	1	fe-10					False	No
43	storage	mh-6	mh	1	fe-11					False	No
43	mixing	mw-1 to mw-2	mw	2	fe-13 to fe-14					False	No
43	sawdust dryer	ds-1	ds	1	us-3					False	No
43	sand blasting/coloring, texturing	cta-1	cta	1		bh-1				False	No
43	green storage	misc-1	misc	1	fe-16					False	No
43	sand dryer	dr-1	dr-sand	1	us-4					False	No
43	sand hammermill	g-3	g	1	fe-17					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
44	storage	ru-2	ru	1	us-4					False	No
44	raw material storage	ru-1	ru	1	fe-1					False	No
44	grinding	g-1	g	1	us-3					False	No
44	screening	s-1	s	1	us-3					False	No
44	color/texture application	cta-1	cta	1	fe-4					False	No
44	pugmill	mw-1	mw	1	fe-2					False	No
44	dryer	dc-1	dc	1	us-1					False	No
44	tunnel kiln	tk-1	tk	1	us-2					False	No
44	cutting	misc-1	misc	1	fe-5					False	No
44	extruder	fw-1	extruder	1	fe-3					False	No
45	storage	mh-1	mh	1	fe-2					False	No
45	mixer	mw-1	mw	1	fe-3					False	No
45	screens	s-1 to s-2	s	2		bh-1				False	No
45	tunnel kiln	tk-1	tk	1	us-2					False	No
45	engobe, clay sand spray machines	cta-1	cta	1		bhi-1				False	No
45	grinder	g-1	g	1		bh-1				False	No
45	extruding	fw-1	extruder	1	fe-4					False	No
45	crushing	cr-1	cr	1	fe-1					False	No
45	dryer	dc-1	dc	1	us-1					False	No
45	tunnel kiln	tk-2	tk	1	us-3					False	No
46	rotary dryer	dr-1	dr-sand	1	us-5					False	No
46	brick dryer	dc-1	dc	1	us-2					False	No
46	brick dryer	dc-2	dc	1	us-3					False	No
46	brick dryer	dc-3	dc	1	us-4					False	No
46	screening	s-5 to s-6	s	2	fe-14 to fe-15					False	No
46	tunnel kiln	tk-1	tk	1	us-1				ds-1	True	No
46	sawdust dryer w/ cyclone	ds-1	ds	1	us-6					True	No
46	sand dryer	dr-1	dr-sand	1	fe-16					False	No
46	coating mixer	md-1	md	1	fe-17					False	No
46	crushing	cr-1	cr	1	fe-1					False	No
46	grinding	g-1	g	1	fe-2					False	No
46	screening	s-1 to s-4	s	4	fe-3 to fe-6					False	No
46	grinding	g-2	g	1	fe-7					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
46	storage	ru-1 to ru-2	ru	2	fe-8					False	No
46	mixer	mw-1 to mw-2	mw	2	fe-9 to fe-10					False	No
46	extruding	fw-1	extruder	1	fe-11					False	No
46	color/texture application	cta-1	cta	1	fe-12					False	No
46	cutting/setting	misc-1	misc	1	fe-13					False	No
47	dryer	dc-1	dc	1	us-1					False	No
47	dryer	dc-3	dc	1	us-2					False	No
47	color/texture	cta-1	cta	1	fe-5					False	No
47	crushing/screen	gs-1	gs	1	fe-1					False	No
47	extruder	fw-1	extruder	1	fe-4					False	No
47	tunnel kiln	tk-3	tk	1				da-1		False	No
47	tunnel kiln	tk-1	tk	1				da-1		True	No
47	mixer	mw-1	mw	1	fe-3					False	No
47	storage	mh-1	mh	1	fe-2					False	No
48	grinder/screen	gs-1	gs	1	fe-2					False	No
48	crusher	cr-1	cr	1	fe-1					False	No
48	dryer	dc-1	dc	1	us-1					False	No
48	mixer	mw-1	mw	1	fe-3					False	No
48	extruder	fw-1	extruder	1	fe-4					False	No
48	color/texture	cta-1	cta	1	fe-5					False	No
48	tunnel kiln	tk-1	tk	1	us-2					True	No
49	tunnel kiln	tk-3	tk	1	us-5					False	No
49	tunnel kiln	tk-2	tk	1	us-4					True	No
49	tunnel kiln	tk-1	tk	1	us-2					True	No
49	dryer	dc-1	dc	1	us-1					False	No
49	dryer	dc-2	dc	1	us-3					False	No
49	mixing	mw-1	mw	1	fe-3					False	No
49	crushing	cr-1	cr	1	fe-1					False	No
49	grinder	g-1	g	1	fe-2					False	No
49	sand dryer	dr-1	dr-sand	1	fe-5					False	No
49	screens	s-1	s	3	fe-2					False	No
49	extruder	fw-1	extruder	1	fe-3					False	No
49	color application	cta-1	cta	1	fe-4					False	No
50	primary crusher	cr-1	cr	1	fe-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
50	grinder	g-1	g	1	fe-1					False	No
50	screens	s-1 to s-4	s	4	fe-1					False	No
50	storage bins	mh-1 to mh-4	mh	4	fe-1					False	No
50	pug mill	mw-1	mw	1	fe-2					False	No
50	extruding	fw-1	extruder	1	fe-3					False	No
50	dryer	dc-1	dc	1	us-1 to us-2					False	No
50	tunnel kiln	tk-1	tk	1	us-3 to us-5					False	No
51	sand stockpile	ru-3, ru-6	ru	2	fe-8, fe-21					False	No
51	sand dryer	dr-1	dr-sand	1					cy-1	False	No
51	tunnel kiln	tk-2	tk	1	us-9					True	No
51	stock piles	ru-1, ru-4	ru	2	fe-1, fe-9					False	No
51	sand mixing	md-2	md	1	fe-22					False	No
51	sand dryer	dr-2	dr-sand	1	us-10					False	No
51	cutting/setting	misc-7	misc	1	fe-17					False	No
51	texturing/coloring	cta-2	cta	1	fe-16					False	No
51	extruding	fw-2	extruder	1	fe-15					False	No
51	batch shapes dryer	dp-1	dp	1	us-5					False	No
51	loading cars	misc-1	misc	1	fe-7					False	No
51	mixing	mw-1, mw-2	mw	2	fe-6, fe-14					False	No
51	storage	ru-2, ru-5	ru	2	fe-5, fe-13					False	No
51	screening	s-1 to s-3	s	3	fe-4, fe-12, fe-20					False	No
51	grinding	g-1 to g-3	g	3	fe-3, fe-11, fe-19					False	No
51	crushing	cr-1 to cr-3	cr	3	fe-2, fe-10, fe-18					False	No
51	tunnel kiln	tk-1	tk	1	us-4					True	No
51	possey machine	fw-1	molding	1		bh-1				False	No
51	tunnel dryer	dc-3	dc	1	us-8					False	No
51	possey machine	cta-1	cta	1		bh-1				False	No
51	preheater	misc-6	predryer	1	us-3					False	No
51	holding room	misc-2, misc-8	predryer	2	us-1, us-6					False	No
51	tunnel dryers	dc-2	dc	1	us-7					False	No
51	tunnel dryer	dc-1	dc	1	us-2					False	No
51	hand set conveyor	misc-5	misc	1		bh-1				False	No
51	brick rotation conveyor	misc-4 , misc-10	misc	2		bhi-1				False	No
51	sand mixing	md-1	md	1		bh-3				False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
51	Pallet unloader	misc-3, misc-9	misc	2		bh-1				False	No
52	storage	mh-1 to mh-2	mh	2	fe-1, fe-3					False	No
52	mixer	mw-1 to mw-2	mw	2	fe-4 to fe-5					False	No
52	coal crusher	cc-1	cc	1	fe-12					False	No
52	grinder /screen	gs-1	gs	1	fe-2					False	No
52	extruder	fw-1 to fw-2	extruder	2	fe-6 to fe-7					False	No
52	colorer	cta-1 to cta-2	cta	2	fe-8 to fe-9					False	No
52	predryer	misc-1 to misc-2	predryer	2	fe-10 to fe-11					False	No
52	coal storage	mh-3	mh	1	fe-13					False	No
52	dryer	dc-1	dc	1	us-1					False	No
52	dryer	dc-2	dc	1	us-2					False	No
52	kiln	tk-1	tk	1		bh-1				False	No
52	kiln	tk-2	tk	1		bh-2				True	No
53	mixer	mw-1	mw	1	fe-7					False	No
53	grinding	g-2	g	1	fe-4					False	No
53	crusher	cr-1	cr	1	fe-1					False	No
53	crusher	cr-2	cr	1	fe-11					False	No
53	storage	mh-1	mh	1	fe-2					False	No
53	storage	mh-2	mh	1	fe-6					False	No
53	storage	mh-3	mh	1	fe-14					False	No
53	grinding	g-1	g	1	fe-3					False	No
53	dryer	dc-1	dc	1	us-1					False	No
53	screen	s-1	s	12	fe-5					False	No
53	extruder	fw-1	extruder	1	fe-8					False	No
53	texturizer	cta-1	cta	1	fe-9					False	No
53	mixer	mw-2	mw	1	fe-10					False	No
53	drying room	misc-1	predryer	1	fe-13					False	No
53	tunnel kiln	tk-1	tk	1		bh-1				False	No
54	tunnel kiln	tk-1	tk	1	us-2					False	No
54	extruder	fw-1 to fw-2	extruder	2	fe-3, fe-8					False	No
54	dryer	dc-1	dc	1	us-1					False	No
54	dryer	dc-2	dc	1	us-3					False	No
54	predryer	misc-1	predryer	1	fe-5					False	No
54	predryer	misc-2	predryer	1	fe-10					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
54	colorer	cta-1 to cta-2	cta	2	fe-4, fe-9					False	No
54	tunnel kiln	tk-2	tk	1	us-4					False	No
54	mixer	mw-1 to mw-2	mw	2	fe-2, fe-7					False	No
54	storage	mh-1, mh-2	mh	2	fe-1, fe-6					False	No
54	coal crusher	cc-1	cc	1	fe-11					False	No
54	coal storage	mh-3	mh	1	fe-12					False	No
54	grinders/screens	gs-1	gs	1		bh-1				False	No
55	tunnel kiln	tk-1	tk	1	us-1					False	No
55	sand applicator	cta-1	cta	1		bh-2				False	No
55	tunnel kiln	tk-2	tk	1	us-2					False	No
55	dryer	dc-1	dc	1	us-3					False	No
55	dryer	dc-2	dc	1	us-4					False	No
55	predryer	misc-1	predryer	1	fe-8					False	No
55	sand mixer	md-1	md	1		bh-1				False	No
55	wet mixer	mw-1	mw	1	fe-6					False	No
55	extruder	fw-1	extruder	1	fe-7					False	No
55	screen	s-1	s	6	fe-5					False	No
55	grinder	g-1	g	1	fe-3					False	No
55	hammer mill	g-2	g	1	fe-4					False	No
55	crusher	cr-1	cr	1	fe-2					False	No
55	storage	mh-1	mh	1	fe-1					False	No
56	tunnel kiln no. 1	tk-1	tk	1	us-1					False	No
56	storage	mh-2	mh	1	fe-4					False	No
56	dryer	dc-1	dc	1	us-2					False	No
56	extruder	fw-1	extruder	1	fe-6					False	No
56	mixer	mw-1	mw	1	fe-5					False	No
56	storage	mh-1	mh	1	fe-1					False	No
56	grinders/screens	gs-1	gs	1	fe-3					False	No
56	crusher	cr-1	cr	1	fe-2					False	No
56	tunnel kiln-idle	tk-2	tk-idle	1	us-3					False	No
57	coal crusher	cc-1	cc	1		bh-3				False	No
57	storage	mh-1 to mh-3	mh	3	fe-1 to fe-3					False	No
57	extruder	fw-1	extruder	1	fe-5					False	No
57	screens (5)	s-1	s	5		bh-1				True	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
57	sand silo	mh-4	mh	1		bh-4				False	No
57	color applier	cta-1	cta	1		bh-2				False	No
57	tunnel kiln	tk-2	tk	1	us-4					False	No
57	extruder	fw-2	extruder	1	fe-6					False	No
57	grinder	g-1	g	2		bh-1				True	No
57	tunnel kiln	tk-1	tk	1	us-3					True	No
57	color applier	cta-2	cta	1		bh-2				False	No
57	dryer	dc-2	dc	1	us-2					False	No
57	dryer	dc-1	dc	1	us-1					True	No
57	mixer	mw-1 to mw-2	mw	2	fe-4					False	No
58	grinder/screen	gs-1	gs	1		bh-1				False	No
58	tunnel kiln	tk-1	tk	1	us-3					False	No
58	storage	mh-1 to mh-2	mh	2	fe-1 to fe-2					False	No
58	mixer	mw-1 to mw-2	mw	2	fe-5 to fe-6					False	No
58	weigher	we-1 to we-2	we	2	fe-3 to fe-4					False	No
58	coal processing	cc-1, mh-3	cc	2		bh-2				False	No
58	extruder	fw-1 to fw-2	extruder	2	fe-7 to fe-8					False	No
58	colorizer	cta-1to cta-2	cta	2	fe-9 to fe-10					False	No
58	dryer	dc-2	dc	1	us-2					False	No
58	dryer	dc-1	dc	1	us-1					False	No
58	tunnel kiln	tk-2	tk	1		bh-3				True	No
59	dryer	dc-2	dc	1	us-4					False	No
59	extruder	fw-1 to fw-2	extruder	2	fe-3 to fe-4					False	No
59	mixer	mw-1 to mw-2	mw	2	fe-5 to fe-6					False	No
59	color application	cta-1 to cta-2	cta	2	fe-1 to fe-2					False	No
59	storage	mh-1	mh	1	fe-9					False	No
59	grinder/screen	gs-1	gs	1		bh-1				False	No
59	batcher	we-1 to we-2	we	2	fe-7 to fe-8					False	No
59	tunnel kiln	tk-2	tk	1	us-2					False	No
59	tunnel kiln	tk-1	tk	1	us-1					False	No
59	dryer	dc-1	dc	1	us-3					False	No
60	mud machine	fw-1	extruder	1	fe-4					False	No
60	dryer	dc-1	dc	1	us-1					False	No
60	dryer	dc-2	dc	1	us-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
60	dryer	dc-3	dc	1	us-3					False	No
60	mixer	mw-1	mw	1	fe-3					False	No
60	tunnel kiln	tk-3	tk	1	us-6					True	No
60	sand mixer	md-1	md	1		bh-2				False	No
60	scalping screen	s-2	s	1	fe-10					False	No
60	screens	s-1	s	6		bh-1				False	No
60	batcher	we-1	we	1	fe-2					False	No
60	batcher	we-2	we	1	fe-9					False	No
60	coal storage	mh-2	mh	1		bh-3				False	No
60	storage	mh-1	mh	1	fe-1					False	No
60	grinder	g-1	g	2		bh-1				False	No
60	pre heater	misc-1	predryer	1	fe-6					False	No
60	coal crusher	cc-1	cc	1		bh-3				False	No
60	color application	cta-1	cta	1	fe-5					False	No
60	tunnel kiln	tk-2	tk	1	us-5					True	No
60	color application	cta-2	cta	1		bh-2				False	No
60	tunnel kiln	tk-1	tk	1	us-4					False	No
60	mixer	mw-2	mw	1	fe-8					False	No
60	forming	fw-2	extruder	1	fe-7					False	No
61	dryer	dc-3	dc	1	us-3					False	No
61	tunnel kiln	tk-1	tk	1	us-4					False	No
61	tunnel kiln	tk-2	tk	1	us-5					False	No
61	tunnel kiln	tk-3	tk	1	us-6					False	No
61	dryer	dc-1	dc	1	us-1					False	No
61	dryer	dc-2	dc	1	us-2					False	No
61	grinder/screen	gs-1	gs	1	fe-2					False	No
61	color applier	cta-1 to cta-2	cta	2		bh-1 to bh-2				False	No
61	extruder	fw-1 to fw-2	extruder	2	fe-3 to fe-4					False	No
61	mixer	mw-1 to mw-2	mw	2	fe-5 to fe-6					False	No
61	batcher	we-1 to we-2	we	2	fe-7 to fe-8					False	No
61	storage	mh-1	mh	1	fe-1					False	No
62	tunnel kiln	tk-2	tk	1	us-4					False	No
62	batcher	we-1 to we-2	we	2	fe-3, fe-4					False	No
62	mixer	mw-1 to mw-2	mw	2	fe-5, fe-6					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
62	storage	mh-1	mh	1	fe-2					False	No
62	grinding/screening	gs-1	gs	1	fe-1					False	No
62	tunnel kiln	tk-1	tk	1	us-3					False	No
62	dryer	dc-2	dc	1	us-2					False	No
62	extruder	fw-1 to fw-2	extruder	2	fe-7, fe-8					False	No
62	color application	cta-1 to cta-2	cta	2		bh-1 to bh-2				False	No
62	dryer	dc-1	dc	1	us-1					False	No
63	kiln	tk-2	tk	1	us-3					False	No
63	additive hoppers	mh-3	mh	1	fe-4					False	No
63	screen	s-1	s	1		bh-1				False	No
63	screen	s-2	s	1	fe-2					False	No
63	storage tank	st-1	s	1	fe-6					False	No
63	pug mill	mw-1	mw	1		bh-1				False	No
63	extruder	fw-1	extruder	1	fe-5					False	No
63	mills	g-1, g-2	g	2		bh-1				False	No
63	pugmill	mw-2	mw	1	fe-7					False	No
63	storage	mh-1, mh-2	mh	2	fe-1, fe-3					False	No
63	dryer	dc-1	dc	1	us-1					False	No
63	kiln	tk-1	tk	1	us-2					False	No
64	extruding	fw-1	extruder	1	fe-5					False	No
64	tunnel kiln	tk-1	tk	1	us-1					False	No
64	grinder	g-1	g	1	fe-1					False	No
64	screen	s-1	s	1	fe-2					False	No
64	storage	mh-1	mh	1	fe-3					False	No
64	mixer	mw-1	mw	1	fe-4					False	No
64	dryer	dc-4	dc	1	us-6					False	No
64	color application	cta-1	cta	1	fe-6					False	No
64	predryer	misc-1	predryer	1	fe-7					False	No
64	kiln	tk-2	tk	1	us-2					False	No
64	coal crusher	cc-1	cc	1	fe-8					False	No
64	dryer	dc-2	dc	1	us-4					False	No
64	dryer	dc-3	dc	1	us-5					False	No
64	dryer	dc-1	dc	1	us-3					False	No
65	mixing	mw-1	mw	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
65	storage	mh-2	mh	1	fe-4					False	No
65	grinding	g-1	g	1	fe-1					False	No
65	kiln 6	tk-3	tk	1	us-3					False	No
65	forming	fw-2	extruder	1	fe-8					False	No
65	grinding	g-2	g	1	fe-3					False	No
65	forming	fw-1	extruder	1	fe-7					False	No
65	color application	cta-1	cta	1	fe-9					False	No
65	storage	mh-1	mh	1	fe-2					False	No
65	kiln 5	tk-2	tk	1	us-2					True	No
65	kiln 4	tk-1	tk	1	us-1					False	No
65	dryer	dc-3	dc	1	us-8, us-9					False	No
65	mixing	mw-2	mw	1	fe-6					False	No
65	grinding (follows mining)	cr-1	cr	1	fe-10					False	No
65	dryer	dc-2	dc	1	us-6, us-7					False	No
65	dryer	dc-1	dc	1	us-4, us-5					False	No
66	screen	s-1	s	1	fe-3					False	No
66	colorer	cta-1	cta	1		bh-1				False	No
66	tunnel kiln	tk-1	tk	1	us-2					False	No
66	dryer	dc-1	dc	1	us-1					False	No
66	extruder	fw-1	extruder	1	fe-2					False	No
66	mixer	mw-1	mw	1	fe-1					False	No
66	storage	mh-1	mh	1	fe-1					False	No
66	crusher	cr-1	cr	1	fe-5					False	No
66	grinder	g-1	g	1	fe-3					False	No
67	dryer	dc-1	dc	1	us-1					False	No
67	color/texture	cta-1	cta	1		bh-1				False	No
67	kiln	tk-1	tk	1	us-3, us-2					False	No
67	mixer	mw-1	mw	1	fe-5					False	No
67	grinder	g-1	g	1	fe-2					False	No
67	extruder	fw-1	extruder	1	fe-6					False	No
67	crusher	cr-1	cr	1	fe-1					False	No
67	storage	mh-1	mh	1	fe-4					False	No
67	screening	s-1	s	1	fe-3					False	No
68	sand blaster	cta-1	cta	1		bh-1				False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
68	mixer	mw-1	mw	1		bh-1				False	No
68	grinder	g-1	g	1	fe-3					False	No
68	storage	mh-1	mh	1	fe-2					False	No
68	crusher	cr-1	cr	1	fe-1					False	No
68	extruder	fw-1	extruder	1		bh-1				False	No
68	dryer	dc-1	dc	1	us-1					False	No
68	sand dryer	dr-1	dr-sand	1		bh-2				False	No
68	storage tank	mh-2	mh	1	fe-4					False	No
68	tunnel kiln	tk-1	tk	1	us-2					False	No
69	extruder	fw-1	extruder	1		bh-1				False	No
69	sand blaster	cta-1	cta	1		bh-1				False	No
69	sand dryer	dr-1	dr-sand	1		bh-2				False	No
69	extruder	fw-2	extruder	1	fe-6					False	No
69	sand blaster	cta-2	cta	1	fe-7					False	No
69	mixer	mw-1	mw	1		bh-1				False	No
69	dryer	dc-2	dc	1	us-2					False	No
69	dryer	dc-1	dc	1	us-1					False	No
69	tunnel kiln	tk-1	tk	1	us-3					False	No
69	tunnel kiln	tk-2	tk	1	us-4					False	No
69	mixer	mw-2	mw	1	fe-5					False	No
69	grinder	g-1	g	1	fe-3					False	No
69	storage	mh-2	mh	1	fe-4					False	No
69	storage	mh-1	mh	1	fe-2					False	No
69	crusher	cr-1	cr	1	fe-1					False	No
70	tunnel kiln	tk-2	tk	1			diff-2			True	No
70	tunnel kiln	tk-1	tk	1			diff-1			True	No
70	dryer	dc-1	dc	1	us-1					False	No
70	dryer	dc-2	dc	1	us-2					False	No
70	color appl.	cta-1	cta	1	fe-7					False	No
70	extruder	fw-1	extruder	1	fe-6					False	No
70	mixing	mw-1	mw	1	fe-5					False	No
70	screen	s-1	s	1	fe-3					False	No
70	storage	mh-1	mh	1	fe-4					False	No
70	crusher	cr-1	cr	1	fe-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
70	grinder	g-1	g	1	fe-2					False	No
71	grinder	g-1	g	1	us-4					False	No
71	dryer	dc-1	dc	1	us-1					False	No
71	kiln	tk-1	tk	1	us-2,us-3					False	No
71	screens	s-1,s-2	s	2	us-4					False	No
71	mixing	mw-1	mw	1	fe-1					False	No
71	extruder	fw-1	extruder	1	fe-2					False	No
71	storage	ru-1toru-3	ru	3	us-5					False	No
71	cutting	misc-1	misc	1	fe-4					False	No
71	color and texture applications	cta-1	cta	1	fe-3					False	No
72	brick dryer	dc-4	dc	1	us-20 - us-21					False	No
72	rotary wood dryer	ds-1	ds	1	us-22					False	No
72	screening and grinding	gs-1	gs	1	fe-11					False	No
72	silo	ru-5	ru	1					cy-1	False	No
72	mill room: mixing	mw-2	mw	1		bh-3				False	No
72	mill room: mixing	mw-1	mw	1		bh-2				False	No
72	sand building	md-1	md	1		bh-1				False	No
72	rotary wood dryer	ds-2	ds	1	us-23					True	No
72	clay storage	ru-6	ru	1	fe-9					False	No
72	sawdust shaker screen	misc-8	misc	1		bh-2				False	No
72	dry storage silo	ru-3 to ru-4	ru	2	fe-7 to fe-8					False	No
72	sawdust hammer mill	misc-6	misc	1					cy-1	False	No
72	sawdust shaker screen	misc-7	misc	1	fe-4					False	No
72	sawdust storage silo	ru-1, ru-2	ru	2	fe-5 to fe-6					False	No
72	wood hog	misc-2	misc	1					cy-2	False	No
72	sawdust pile	os-1	misc	1	fe-1					False	No
72	dump pit	misc-1	misc	1	fe-3					False	No
72	front end loader	mh-1	mh	1	fe-2					False	No
72	mill room: color/texturing	cta-2	cta	1		bh-3				False	No
72	tunnel kiln	tk-1	tk	1	us-1 - us-2				ds-1	False	No
72	mill room: extrusion	fw-2	extruder	1		bh-3				False	No
72	mill room: color/texture	cta-1	cta	1		bh-2				False	No
72	mill room: extrusion	fw-1	extruder	1		bh-2				False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
72	rotary sand dryer	dr-1	dr-sand	1		bh-5,cy-1				False	No
72	tunnel kiln	tk-2	tk	1	us-3 - us-4				ds-2	True	No
72	brick dryer	dc-3	dc	1	us-18 - us-19					False	No
72	kiln car cleaning system	misc-5	misc	1		bh-4			cy-1	False	No
72	brick dryer	dc-1	dc	1	us-15					False	No
72	brick warm room	misc-4	predryer	1	us-9 - us-14					False	No
72	brick warm room	misc-3	predryer	1	us-5 - us-8					False	No
72	crusher	cr-1	cr	1	fe-10					False	No
73	storage	mh-3	mh	1	fe-9					False	No
73	sand and slurry mixing	md-1	md	1					cy-1	False	No
73	holding room	misc-1	predryer	1	us-1					False	No
73	dryer	dc-1	dc	1	us-2					False	No
73	tunnel kiln	tk-1	tk	1	us-4					True	No
73	crusher	cr-1	cr	1	fe-1					False	No
73	storage	mh-1, mh-2	mh	2	fe-2, fe-5					False	No
73	tunnel kiln	tk-2	tk	1	us-5					True	No
73	grinder	g-1	g	1	fe-3					False	No
73	screen	s-1	s	1	fe-4					False	No
73	mixer	mw-1	mw	1	fe-6					False	No
73	extruder	fw-1	extruder	1	fe-7					False	No
73	color application	cta-1	cta	1	fe-8					False	No
73	dryer	dc-2	dc	1	us-3					False	No
74	color/texture application	cta-1	cta	1	fe-7					False	No
74	dryer	dc-1	dc	1	us-1					False	No
74	tunnel kiln	tk-1	tk	1	us-2					False	No
74	raw material storage	ru-1	ru	1	fe-1					False	No
74	extruder	fw-1	extruder	1	fe-6					False	No
74	holding room	misc-2	predryer	1	fe-9					False	No
74	setting	misc-1	misc	1	fe-8					False	No
74	smooth roll crusher	cr-1	cr	1	fe-3					False	No
74	pressed dryer storage	ru-2	ru	1	fe-4					False	No
74	pug mill	mw-1	mw	1	fe-5					False	No
74	wet pan grinding	g-1	g	1	fe-2					False	No
75	roller mill	g-2	g	1					oc-1	False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
75	tunnel kiln	tk-1	tk	1	us-2					False	No
75	pumps and feeders	cta-1	cta	1	fe-6					False	No
75	screen	s-1	s	1	fe-4					False	No
75	mixer	md-1	md	1	fe-2					False	No
75	crushing	cr-1	cr	1	fe-1					False	No
75	periodic kiln-idle	pk-4	pk	1	us-6					False	No
75	extruder	fw-1	extruder	1	fe-8					False	No
75	grinder	g-1	g	1	fe-3					False	No
75	periodic kiln-idle	pk-2	pk	1	us-4					False	No
75	periodic kiln-idle	pk-3	pk	1	us-5					False	No
75	dryer	dc-1	dc	1	us-1					False	No
75	mixer	mw-1	mw	1	fe-7					False	No
75	periodic kiln-idle	pk-1	pk	1	us-3					False	No
76	holding room	misc-1	predryer	1	fe-5					False	No
76	color coating	cta-1	cta	1	fe-4					False	No
76	extruder	fw-1	extruder	1	fe-3					False	No
76	dryer	dc-1	dc	1	us-2					False	No
76	grinder	g-1	g	1	fe-1					False	No
76	kiln	tk-1	tk	1	us-1					False	No
76	mixer	mw-1	mw	1	fe-2					False	No
77	tunnel kiln	tk-2	tk	1			dls-1			False	No
77	crushing	cr-1	cr	1	fe-1					False	No
77	extruder	fw-1	extruder	1	fe-6					False	No
77	tunnel kiln	tk-1	tk	1	us-5					True	No
77	dryer	dc-1	dc	1	us-3					False	No
77	dryer	dc-2	dc	1	us-4					False	No
77	color/texture	cta-1	cta	1	fe-7					False	No
77	storage	mh-1	mh	1	fe-4					False	No
77	screen	s-1	s	1	fe-3					False	No
77	mixer	mw-1	mw	1	fe-5					False	No
77	grinding	g-1	g	1	fe-2					False	No
78	extruder	fw-1	extruder	1	fe-8					False	No
78	color/texture application	cta-1	cta	1	fe-9					False	No
78	cutting	misc-1	misc	1	fe-10					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
78	grinders	g-1, g-2	g	2	fe-2, fe-5					False	No
78	tunnel kiln	tk-1	tk	1	us-3					False	No
78	dryer	dc-2	dc	1	us-2					False	No
78	dryer	dc-1	dc	1	us-1					False	No
78	mixers	mw-1, mw-2	mw	2	fe-6, fe-7					False	No
78	crusher	cr-1	cr	1	fe-1					False	No
78	storage	ru-1, ru-2	ru	2	fe-3, fe-4					False	No
78	tunnel kiln	tk-2	tk	1	us-4					False	No
79	dryer	dc-1	dc	1	us-2					False	No
79	pug mill	mw-1	mw	1	fe-1					False	No
79	extruder	fw-1	extruder	1	fe-2					False	No
79	tunnel kiln	tk-1	tk	1	us-1					False	No
79	clay feeder	we-1	we	1	fe-4					False	No
79	setting	misc-1	misc	1	fe-5					False	No
79	disintergrating crusher	cr-1	cr	1	fe-3					False	No
80	dryer	dc-1	dc	1	us-4					False	No
80	clay blending/layering	mh-1	mh	1	fe-11					False	No
80	bin (clay)	ru-1	ru	1	fe-6					False	No
80	extruding	FW-1	extruder	1	fe-9					False	No
80	bin (shale)	ru-2	ru	1	fe-7					False	No
80	tunnel kiln	tk-2	tk	1	us-2					False	No
80	tunnel kiln	tk-3	tk	1	us-3					False	No
80	crusher (clay)	cr-1	cr	1	fe-1					False	No
80	crusher (shale)	cr-2	cr	1	fe-2					False	No
80	grinder (shale)	g-1	g	1	fe-3					False	No
80	screen (clay)	s-1	s	1	fe-4					False	No
80	mixing (wet)	mw-1	mw	1	fe-8					False	No
80	tunnel kiln	tk-1	tk	1	us-1					False	No
80	screen (shale)	s-2	s	1	fe-5					False	No
81	grinder	g-1, g-2	g	2	fe-3, fe-13					False	No
81	crusher	cr-1, cr-2	cr	2	fe-2, fe-12					False	No
81	storage	mh-2, mh-6	mh	2	fe-15, fe-5					False	No
81	apron feeder	mh-1, mh-4, mh-5, mh-8	mh	4	fe-1, fe-7, fe-9, fe-17					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
81	dryer	dc-6	dc	1	us-7					False	No
81	tunnel kiln	tk-5	tk	1	us-8					False	No
81	dryer	dc-4	dc	1	us-4					False	No
81	dryer	dc-7	dc	1	us-7					False	No
81	dryer	dc-8	dc	1	us-7					False	No
81	dryer	dc-9	dc	1	us-7					False	No
81	tunnel kiln	tk-6	tk	1	us-9					False	No
81	extruder	fw-3	extruder	1	fe-27					False	No
81	tunnel kiln	tk-1	tk	1	us-6					False	No
81	finish dryer	dc-5	dc	1	us-5					False	No
81	initial dryer	dc-1	dc	1	us-1					False	No
81	coating and texturing	cta-3	cta	1		bh-1				False	No
81	forming and sand coating	fw-1, fw-2	molding	2	us-10					False	No
81	hopper	mh-3, mh-7	mh	2	fe-6, fe-16					False	No
81	mixer	mw-1 to mw-3	mw	3	fe-18, fe-8, fe-26					False	No
81	screen	s-1 to s-6	s	6	fe-4					False	No
81	dryer	dc-3	dc	1	us-3					False	No
81	dryer	dc-2	dc	1	us-2					False	No
81	screen	s-7 to s-12	s	6	fe-14, fe-21 to fe-25					False	No
82	grinder	g-1	g	1	fe-3					False	No
82	wet mixer	MW-1	mw	1	FE-11					False	No
82	screen	s-1 to s-4	s	4	fe-4					False	No
82	crusher	cr-1	cr	1	fe-2					False	No
82	holding room	misc-3	predryer	1	us-1					False	No
82	dryer	dc-1	dc	1	us-2					False	No
82	tunnel kiln	tk-1	tk	1	us-3					False	No
82	cutting/setting	misc-2	misc	1	fe-10					False	No
82	hopper	mh-3	mh	1	fe-6					False	No
82	storage (clay)	mh-2	mh	1	fe-5					False	No
82	extruder	fw-1	extruder	1	fe-8					False	No
82	color/texture	cta-1	cta	1	fe-9					False	No
82	feeders (2)	mh-1, mh-4	mh	2	fe-1, fe-7					False	No
83	dryer	dc-2	dc	1	us-1					False	No
83	dryer	dc-1	dc	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
83	coloring/texturing	cta-1	cta	1	fe-5					False	No
83	extruding	fw-1	extruder	1	fe-6					False	No
83	mixing	mw-1	mw	1	fe-4					False	No
83	storage	ru-1 to ru-5	ru	5	fe-3					False	No
83	screening	s-1 to s-4	s	4	fe-2					True	No
83	grinding	g-1	g	1	fe-1					True	No
83	tunnel kiln	tk-1	tk	1	us-2					False	No
83	rockface line	gr-1	gr	1		bh-1				False	No
84	extruder	fw-1	extruder	1	fe-7					False	No
84	dryer	dc-1	dc	1	us-1					False	No
84	coloring/texturing	cta-1	cta	1		bh-2			cy-1	False	No
84	crusher	cr-1	cr	1	fe-1					False	No
84	grinder	g-1	g	1	fe-2					False	No
84	tunnel kiln	tk-1	tk	1	us-2					True	No
84	mixer	mw-1	mw	1	fe-5					False	No
84	rotary sand dryer	dr-1	dr-sand	1	fe-6					False	No
84	screens	s-1 to s-6	s	6	fe-3					False	No
84	storage	ru-1 to ru-2	ru	2	fe-4					False	No
84	coal crushing	cc-1	cc	1		bh-1				False	No
85	preheater	misc-1	predryer	1	fe-1					False	No
85	colorer	cta-1	cta	1		bh-1				False	No
85	forming	fw-1	extruder	1	fe-6					False	No
85	coal storage	mh-3	mh	1		bh-3				False	No
85	mixer	mw-1	mw	1	fe-5					False	No
85	batcher	we-1	we	1	fe-4					False	No
85	grinder/screen	gs-1	gs	1	fe-2					False	No
85	colorant storage	mh-2	mh	1		bh-2				False	No
85	storage	mh-1	mh	1	fe-3					False	No
85	dryer	dc-1	dc	1	us-1					True	No
85	sand mixer	md-1	md	1		bh-1				False	No
85	tunnel kiln	tk-1	tk	1					cy-1	True	No
86	dryer	dc-1	dc	1	us-2					False	No
86	periodic kiln	pk-1	pk	1	us-6					True	No
86	color/texturer	cta-1	cta	1	fe-8					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
86	clay stockpiles	ru-1	ru	1	fe-2					False	No
86	flue clay liners	ru-2	ru	1	fe-3					False	No
86	clay storage	ru-3	ru	1	fe-4					False	No
86	brick clay storage	ru-4	ru	1	fe-5					False	No
86	cutters	misc-1, misc-2	misc	2	fe-6, fe-7					False	No
86	cutters	misc-3	misc	1	fe-9					False	No
86	dryer	dp-1	dp	1	us-4					False	No
86	wet mixer	mw-2	mw	1		bh-2				False	No
86	holding room	misc-4	predryer	1	us-1					False	No
86	pipe pug	fw-1	extruder	1	fe-11					False	No
86	brick pug	fw-2	extruder	1	fe-10					False	No
86	hammer mill	g-1	g	1		bh-1				False	No
86	screens	s-1, s-2	s	2		bh-1				False	No
86	roll crusher	cr-1	cr	1		bh-1				False	No
86	clay hopper	mh-1	mh	1		bh-1				False	No
86	mixing area	md-1	md	1	fe-1					False	No
86	preheat	misc-5	predryer	1	us-5					False	No
86	kiln	tk-1	tk	1	us-3					True	No
86	wet mixer	mw-1	mw	1		bh-2				False	No
87	pugmills	mw-2	mw	1	fe-9					False	No
87	clay mixing	md-1	md	1	fe-2					False	No
87	vibrating screen	s-1	s	1	fe-4					False	No
87	dry pan grinding	g-1	g	1	fe-5					False	No
87	clay storage	ru-1	ru	1	fe-1					False	No
87	extruder	fw-1	extruder	1	fe-10					False	No
87	additive feeders	cta-1	cta	1	fe-3					False	No
87	conveyors	mh-1	mh	1	fe-7					False	No
87	storage bins	ru-2	ru	1	fe-6					False	No
87	additive feeder	we-1	we	1	fe-3					False	No
87	slurry mixers	mw-1	mw	1	fe-13					False	No
87	periodic kiln	pk-1	pk	1	us-4					False	No
87	tunnel kiln	tk-1	tk	1	us-3					False	No
87	feed hoppers	we-1	we	1	fe-14					False	No
87	dryers	dc-1	dc	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
87	holding room	misc-2	predryer	1	fe-12					False	No
87	wire cutting	misc-1	misc	1	fe-11					False	No
87	dry press	fd-1	fd	1	fe-8					False	No
87	grog crusher	cr-1	grog cr	1	us-5					False	No
87	dryers	dp-1	dp	1	us-2					False	No
88	vibrating screens	s-1	s	1	fe-5					False	No
88	dryers	dc-1	dc	1	us-1					False	No
88	dryer	dc-2	dc	1	us-1					False	No
88	clay batching	we-1	we	1	fe-12					False	No
88	compression extruder	fw-1 to fw-2	extruder	2	fe-10					False	No
88	conveyor belts	mh-1	mh	1	fe-7					False	No
88	storage bins	ru-2	ru	1	fe-6					False	No
88	wire cutting	misc-1 misc-2	misc	2	fe-11					False	No
88	dry pan grinder	g-1	g	1	fe-4					False	No
88	ore crusher	cr-1	cr	1	fe-3					False	No
88	clay mixing	md-1	md	1	fe-2					False	No
88	clay storage	ru-1	ru	1	fe-1					False	No
88	pugmills	mw-3 to mw-4	mw	2	fe-9					False	No
88	keller tunnel kiln	tk-1	tk	1	us-2					True	No
88	slurry mixers	mw-1 to mw-2	mw	2	fe-8					False	No
89	tunnel kiln	tk-1	tk	1	us-5, us-6					False	No
89	crusher	cr-1	cr	1	fe-2					False	No
89	grinder	g-1	g	1		bh-1				False	No
89	screen	s-1	s	1		bh-1				False	No
89	storage	mh-1	mh	1	us-2					False	No
89	mixer	mw-1	mw	1	fe-3					False	No
89	color/texture	cta-1	cta	1	fe-1					False	No
89	dryer	dp-2	dp	1	us-4					False	No
89	dryer	dp-1	dp	1	us-3					False	No
89	moulding	fw-1	molding	1		bh-2				False	No
90	screening	s-1	s	1	us-6					False	No
90	batcher	we-1	we	1	us-7					False	No
90	brick machine	mw-1	mw	1	us-8					False	No
90	dryer	dc-1	dc	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
90	grinding	g-1,g-2	g	2	us-5					False	No
90	dryer	dc-2	dc	1	us-2					False	No
90	tunnel kiln	tk-1	tk	1	us-3					False	No
90	tunnel kiln	tk-2	tk	1	us-4					False	No
90	coloring/texturing application	cta-1	cta	1	fe-1					False	No
90	forming	fw-1	extruder	1	fe-2					False	No
91	periodic kiln	pk-6	pk	1	us-3					False	No
91	periodic kiln	pk-2	pk	1	us-1					False	No
91	periodic kiln	pk-3	pk	1	us-2					False	No
91	periodic kiln	pk-4	pk	1	us-2					False	No
91	periodic kiln	pk-5	pk	1	us-3					False	No
91	periodic kiln	pk-1	pk	1	us-1					False	No
91	periodic kiln	pk-7	pk	1	us-4					False	No
91	periodic kiln	pk-8	pk	1	us-4					False	No
91	dryer	dc-1	dc	1	us-5					False	No
91	crusher	cr-1	cr	1	fe-1					False	No
91	grinder	g-1	g	1	fe-2					False	No
91	screen	s-1	s	1	fe-3					False	No
91	storage	mh-1	mh	1	fe-4					False	No
91	mixer	mw-1	mw	1	fe-5					False	No
91	extruder	fw-1	extruder	1	fe-6					False	No
91	color/texture	cta-1	cta	1	fe-7					False	No
91	cutter	misc-1	misc	1	fe-8					False	No
92	sand coloring	cta-1	cta	1	fe-7					False	No
92	grinder	g-1	g	1	fe-2					False	No
92	screen	s-1	s	1	fe-3					False	No
92	storage	mh-1	mh	1	fe-4					False	No
92	mixer	mw-1	mw	1	fe-5					False	No
92	extruder	fw-1	extruder	1	fe-6					False	No
92	crusher	cr-1	cr	1	fe-1					False	No
92	dryer	dp-1	dp	1	us-2					False	No
92	kiln	tk-1	tk	1	us-1					False	No
93	grinder	g-1	g	1	fe-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
93	screen	s-1	s	1	fe-3					False	No
93	mixer	mw-1	mw	1	fe-5					False	No
93	crusher	cr-1	cr	1	fe-1					False	No
93	storage	mh-1	mh	1	fe-4					False	No
93	extruder	fw-1	extruder	1	fe-6					False	No
93	sand colorer	cta-1	cta	1	fe-7					False	No
93	dryer	dc-1	dc	1	us-2 to us-4					False	No
93	kiln	tk-1	tk	1	us-1					False	No
94	dryer	dc-4	dc	1	us-4					False	No
94	Periodic kiln	pk-1	pk	1	us-5					False	No
94	Periodic kiln	pk-2	pk	1	us-6					False	No
94	Periodic kiln	pk-3	pk	1	us-7					False	No
94	storage	mh-1	mh	1	fe-5					False	No
94	shredder	cr-1	cr	1	fe-8					False	No
94	conveyor	mh-2	mh	1	fe-9					False	No
94	dryer	dc-3	dc	1	us-3					False	No
94	grog crusher	cr-2	grog cr	1	fe-7					False	No
94	hammermill	g-1	g	1	fe-6					False	No
94	grinding room	gs-1	gs	1	fe-4					False	No
94	sand dryer	dr-1	dr-sand	1	fe-1					False	No
94	mixer	mw-1	mw	1	fe-2					False	No
94	extruder	fw-1	extruder	1	fe-1					False	No
94	dryer	dc-1	dc	1	us-1					False	No
94	dryer	dc-2	dc	1	us-2					False	No
95	dryer	dc-2	dc	1	us-3					False	No
95	grinder	g-1	g	1	fe-2					False	No
95	screen	s-1	s	1	fe-3					False	No
95	storage	mh-1	mh	1	fe-4					False	No
95	mixing	mw-1	mw	1	fe-5					False	No
95	extruder	fw-1	extruder	1	fe-6					False	No
95	colorer	cta-1	cta	1	fe-7					False	No
95	dryer	dc-1	dc	1	us-2					False	No
95	kiln	tk-1	tk	1	us-1					False	No
95	crusher	cr-1	cr	1	fe-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
96	grinding	g-1	g	1		bh-1				False	No
96	screen	s-1	s	1		bh-1				False	No
96	storage	mh-1	mh	1	fe-2					False	No
96	mixing	mw-1	mw	1	fe-3					False	No
96	extruding	fw-1	extruder	1	fe-4					False	No
96	sand color	cta-1	cta	1	fe-5					False	No
96	dryer	dc-1	dc	1	us-2					False	No
96	crusher	cr-1	cr	1	fe-1					False	No
96	dryer	dc-2	dc	1	us-3					False	No
96	tunnel kiln	tk-1	tk	1	us-1					False	No
97	mixers	mw-3	mw	1	fe-7					False	No
97	crusher	cr-2	cr	1	fe-2					False	No
97	crusher	cr-3	cr	1	fe-10					False	No
97	storage	mh-1, mh-2	mh	2	fe-3, fe-5					False	No
97	calciner	ca-1	Ca	1	us-1					False	No
97	grinder	g-1, g-2	g	2	fe-4					False	No
97	screens	s-1, s-2	s	2	fe-4					False	No
97	mixers	mw-1, mw-2	mw	2	fe-5					False	No
97	extruders	fw-1, fw-2	extruder	2	fe-11					False	No
97	extruders	fw-3	extruder	1	fe-12					False	No
97	coloring	cta-1, cta-2	cta	2		bh-1				False	No
97	coloring	cta-3	cta	1		bh-2				False	No
97	crusher	cr-1	cr	1	fe-1					False	No
97	mixers	mw-4	mw	1	fe-8					False	No
97	mixers	md-1	md	1	fe-9					False	No
97	holding room	misc-1, to -3	predryer	3	us-2, us-3					False	No
97	dryer	dc-1	dc	1	us-4 to -6					False	No
97	dryer	dc-2	dc	1	us-7 to -9					False	No
97	dryer	dc-3	dc	1	us-10 to -12					False	No
97	kiln	tk-1	tk	1	us-13					False	No
97	kiln	tk-2	tk	1	us-14					False	No
97	kiln	tk-3	tk	1	us-15					False	No
98	storage	mh-1 to mh -3	mh	3	fe-2 to fe-4					False	No
98	bins	mh-4, -5	mh	2		bh-1				False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
98	crusher	cr-1	cr	1	fe-1					False	No
98	calciner	ca-1	Ca	1	us-4					False	No
98	grinders	g-1 to g-3	g	3	fe-5					False	No
98	screens	s-1 to s-9	s	9	fe-6					False	No
98	mixer	md-1 to md-6	md	6	fe-7					False	No
98	mixer	mw-1	mw	1	fe-8					False	No
98	Slurry mixer	mw-2	mw	1		bh-2				False	No
98	extruder	fw-1	extruder	1	fe-8					False	No
98	texturing	cta-1	cta	1		bh-2				False	No
98	holding room	misc-1	predryer	1	us-1,us-2					False	No
98	dryer	dc-1	dc	1	us-1					False	No
98	kiln	tk-1	tk	1	us-3					False	No
98	dryer	dc-2	dc	1	us-1					False	No
98	dryer	dc-3	dc	1	us-2					False	No
98	dryer	dc-4	dc	1	us-2					False	No
98	tunnel kiln	tk-2	tk	1	us-5					False	No
99	holding room	misc-1	predryer	1	us-5					False	No
99	mixer	mw-1	mw	1	fe-2					False	No
99	extruder	fw-1	extruder	1	fe-3					False	No
99	dryer	dc-1	dc	1	us-3					False	No
99	dryer	dc-2	dc	1	us-4					False	No
99	grinding room	gs-1	gs	1	fe-1					False	No
99	holding room	misc-2	predryer	1	us-6					False	No
99	kiln	tk-1	tk	1	us-2					False	No
99	kiln	tk-2	tk	1	us-1					False	No
99	coloring	cta-1	cta	1		bh-1				False	No
100	silo	mh-2	mh	1	fe-2					False	No
100	brick dryer	dc-2	dc	1	us-3					False	No
100	sawdust kiln 2	tk-2	tk	1					ds-1	False	No
100	sawdust kiln 1	tk-1	tk	1					ds-1	False	No
100	extruder	fw-1	extruder	1	fe-10					False	No
100	mixer	mw-1	mw	1	fe-9					False	No
100	batcher	we-1	we	1	fe-8					False	No
100	screen	s-3	s	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
100	crusher	cr-1	cr	1	fe-4					False	No
100	grinding	g-1	g	1	fe-5					False	No
100	sawdust hammermill w/cyclone	misc-2	misc	1	fe-3					False	No
100	sawdust screen	misc-1	misc	1	fe-7					False	No
100	sawdust dryer w/cyclone	ds-1	ds	1	us-1					False	No
100	stockpile	mh-1,mh-3	mh	2	fe-1,fe-6					False	No
100	screen	s-2	s	1	fe-4					False	No
100	brick dryer 1	dc-1	dc	1	us-2					False	No
100	texturizer 1	cta-1	cta	1		bh-1				False	No
101	mixer	mw-1	mw	1	fe-21					False	No
101	mixer	mw-2,mw-3	mw	2	fe-12,-13					False	No
101	extruder	fw-1	extruder	1	fe-20					False	No
101	sand dryer	dr-1	dr-sand	1	fe-17					False	No
101	sawdust kiln no. 1	tk-3	tk	1					ds-1	True	No
101	mill	g-2	g	1	fe-7					False	No
101	batcher	we-2, -3	we	2	fe-10,11					False	No
101	sawdust dryer with cyclone	ds-1	ds	1	us-6, us-7					True	No
101	brick dryer	dc-3	dc	1	us-3					False	No
101	brick dryer 2	dc-4	dc	1	us-4					False	No
101	brick dryer 1 for kiln 3	dc-1	dc	1	us-1					False	No
101	brick dryer 2 for kiln 3	dc-2	dc	1	us-2					False	No
101	texturizer 1	cta-2	cta	1		bh-1				False	No
101	texturizer 2	cta-1	cta	1		bh-2				False	No
101	sawdust screen	misc-4	misc	1	fe-4					False	No
101	sawdust grinder	misc-5	misc	1	fe-5					False	No
101	screen	s-2,s-3	s	2	fe-6, fe-8					False	No
101	sawdust kiln 2	tk-2	tk	1					ds-1	True	No
101	crusher	cr-1	cr	1	fe-8					False	No
101	gas kiln NO. 3	tk-1	tk	1	us-5					False	No
101	extruder	fw-2, fw-3	extruder	2	fe-14,fe-15					False	No
101	storage pile	mh-3	mh	1	fe-9					False	No
101	storage	mh-3	mh	1	fe-23					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
101	silo	mh-1, mh-2	mh	2	fe-1, fe-3					False	No
101	holding room	misc-3	predryer	1	fe-16					False	No
101	holding room	misc-2, -1	predryer	2	fe-18, -17					False	No
102	grinder	g-1	g	1	fe-5					False	No
102	extruder	fw-1	extruder	1	fe-9					False	No
102	sawdust screen	misc-1	misc	1	fe-10					False	No
102	batcher	we-1	we	1	fe-7					False	No
102	crusher	cr-1	cr	1	fe-4					False	No
102	sawdust hammermill with cyclone	misc-2	misc	1	fe-3					False	No
102	mixer	mw-1	mw	1	fe-8					False	No
102	sawdust kiln 1	tk-1	tk	1					ds-1	False	No
102	sawdust kiln 2	tk-2	tk	1					ds-1	False	No
102	brick dryer 1	dc-1	dc	1	us-2, us-3					False	No
102	storage	mh-1 to -3	mh	3	fe-1, fe-2, fe-6					False	No
102	drum dryer with cyclone	ds-1	ds	1	us-1					False	No
102	texturizer	cta-1	cta	1		bh-1				False	No
102	screen	s-1,s-2	s	2	fe-4, fe-5					False	No
103	dryer	dc-1	dc	1	us-7					False	No
103	texturizer 2	cta-1	cta	1		bh-1				False	No
103	extruder	fw-1, fw-2	extruder	2	fe-13, fe-14					False	No
103	dryer	dc-4	dc	1	us-10					False	No
103	predryer	misc-1, misc-2	predryer	2	fe-15, fe-16					False	No
103	mixer	mw-1, mw-2	mw	2	fe-11, fe-12					False	No
103	dryer	dc-6	dc	1	us-12					False	No
103	sawdust screen	misc-3	misc	1	fe-16					False	No
103	dryer	dc-2	dc	1	us-8					False	No
103	dryer	dc-3	dc	1	us-9					False	No
103	sawdust screen with cyclone	misc-4	misc	1	fe-5					False	No
103	texturizer 1	cta-2	cta	1		bh-2				False	No
103	sawdust kiln 6	tk-4	tk	1					ds-1	False	No
103	grinder	g-3	g	1	fe-7					False	No
103	silo	mh-1	mh	1	fe-17					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
103	silo	mh-2	mh	1	fe-18					False	No
103	storage	mh-3	mh	1	fe-8					False	No
103	sawdust dryer with cyclone	ds-1	ds	1	us-2, us-3					False	No
103	sawdust dryer with cyclone	ds-2	ds	1	us-1					False	No
103	screen	s-3	s	4	fe-6					False	No
103	crusher	cr-1	cr	1	fe-6					False	No
103	sawdust kiln 8	tk-6	tk	1					ds-1	False	No
103	sawdust kiln No. 5	tk-3	tk	1					ds-1	False	No
103	sawdust kiln No. 4	tk-2	tk	1					ds-2	False	No
103	sawdust kiln 3	tk-1	tk	1					ds-2	False	No
103	sawdust kiln 7	tk-5	tk	1					ds-1	False	No
103	screen	s-4	s	4	fe-7					False	No
103	sawdust hammermill with cyclone	misc-5	misc	1	fe-1					False	No
103	dryer	dc-5	dc	1	us-11					False	No
103	sawdust hammermill with cyclone	misc-6	misc	1	fe-4					False	No
104	sand storage	ru-2	ru	1	fe-3					False	No
104	sawdust crushing	misc-2	misc	1		bh-1				False	No
104	sawdust screens	misc-3	misc	1		bh-1				False	No
104	unloading/storage	ru-4	ru	1	fe-6					False	No
104	sodium siliconate water spray	misc-1	misc	1	fe-2					False	No
104	dryer	dc-1	dc	1	us-2					False	No
104	sawdust silo	ru-3	ru	1		bh-2				False	No
104	dry pressing	fd-1	fd	1	us-1					False	No
104	screening	s-1	s	1	us-4					False	No
104	crushing	cr-1	cr	1	us-4					False	No
104	clay storage	ru-1	ru	1	fe-1					False	No
104	tunnel kiln	tk-1	tk	1	us-3					False	No
104	coloring brick	cta-1	cta	1	fe-4					False	No
105	dryer	dp-4	dp	1	us-10					False	No
105	dryer	dp-5	dp	1	us-11					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
105	dryer	dp-6	dp	1	us-12					False	No
105	dryer	dp-7	dp	1	us-13					False	No
105	dryer	dp-8	dp	1	us-14					False	No
105	periodic kiln	pk-1	pk	1	us-1					False	No
105	periodic kiln	pk-2	pk	1	us-2					False	No
105	periodic kiln	pk-3	pk	1	us-3					False	No
105	periodic kiln	pk-4	pk	1	us-4					False	No
105	periodic kiln	pk-5	pk	1	us-5					False	No
105	kiln	tk-1	tk	1	us-6					False	No
105	periodic kiln-idle	pk-6	pk	1	us-15					False	No
105	storage	mh-1	mh	1	fe-1					False	No
105	mixing	mw-1	mw	1	fe-2					False	No
105	forming	fw-1	extruder	1	fe-3					False	No
105	sizing	gs-1	gs	1		bh-1 to bh-2				False	No
105	wood dust handling	misc-1	misc	1	fe-4					False	No
105	dryer	dp-3	dp	1	us-9					False	No
105	dryer	dp-1	dp	1	us-7					False	No
105	dryer	dp-2	dp	1	us-8					False	No
106	dryers	dp-1	dp	1	us-1					False	No
106	dryers	dp-7	dp	1	us-7					False	No
106	dryers	dp-4	dp	1	us-4					False	No
106	dryers	dp-3	dp	1	us-3					False	No
106	dryers	dp-2	dp	1	us-2					False	No
106	mixing	mw-1	mw	1		bh-3				False	No
106	sizing	gs-1	gs	1		bh-1 to bh-2				False	No
106	storage	mh-1	mh	1	fe-1					False	No
106	dryers	dp-5	dp	1	us-5					False	No
106	dryers	dp-6	dp	1	us-6					False	No
106	extruder	fw-1	extruder	1	fe-2					False	No
106	dryers	dp-9	dp	1	us-9					False	No
106	dryers	dp-12	dp	1	us-12					False	No
106	periodic kiln	pk-1	pk	1	us-13 to us-14					False	No
106	dryers	dp-11	dp	1	us-11					False	No
106	periodic kiln	pk-3	pk	1	us-17 to us-18					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
106	dryers	dp-10	dp	1	us-10					False	No
106	dryers	dp-8	dp	1	us-8					False	No
106	periodic kiln	pk-2	pk	1	us-15 to us-16					False	No
106	periodic kiln	pk-4	pk	1	us-19 to us-20					False	No
107	stockpile	mh-1	mh	1	fe-1					False	No
107	grinding screen	gs-1	gs	1		bh-1				False	No
107	mixer	mw-1	mw	1	fe-3					False	No
107	extruder	fw-1	extruder	1	fe-2					False	No
107	dryer	dp-1	dp	1	us-1					False	No
107	dryer	dp-2	dp	1	us-2					False	No
107	periodic kiln	pk-1	pk	1	us-3					False	No
107	periodic kiln	pk-2	pk	1	us-4					False	No
107	surge tank	mh-2	mh	1		bh-1				False	No
108	stockpile	mh-1	mh	1	fe-1					False	No
108	periodic kiln-idle	pk-16	pk	1	us-16					False	No
108	sizing	gs-1	gs	1	fe-2					False	No
108	periodic kiln-idle	pk-21	pk	1	us-21					False	No
108	periodic kiln-idle	pk-20	pk	1	us-20					False	No
108	batching	we-1	we	1	fe-3					False	No
108	mixing	mw-1	mw	1	fe-4					False	No
108	forming	fw-1	extruder	1	fe-5					False	No
108	dryers	dp-1	dp	1	us-1					False	No
108	periodic kiln-idle	pk-19	pk	1	us-19					False	No
108	dryers	dp-2	dp	1	us-2					False	No
108	periodic kiln	pk-1	pk	1	us-3					False	No
108	periodic kiln	pk-2	pk	1	us-3					False	No
108	periodic kiln	pk-3	pk	1	us-4					False	No
108	periodic kiln	pk-4	pk	1	us-4					False	No
108	periodic kiln	pk-5	pk	1	us-5					False	No
108	periodic kiln-idle	pk-18	pk	1	us-18					False	No
108	periodic kiln-idle	pk-17	pk	1	us-17					False	No
108	periodic kiln	pk-6	pk	1	us-6					False	No
108	periodic kiln-idle	pk-15	pk	1	us-15					False	No
108	periodic kiln-idle	pk-13	pk	1	us-13					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
108	periodic kiln-idle	pk-12	pk	1	us-12					False	No
108	periodic kiln-idle	pk-14	pk	1	us-14					False	No
108	periodic kiln	pk-8	pk	1	us-8					False	No
108	periodic kiln	pk-7	pk	1	us-7					False	No
108	periodic kiln-idle	pk-11	pk	1	us-11					False	No
108	periodic kiln	pk-10	pk	1	us-10					False	No
108	periodic kiln	pk-9	pk	1	us-9					False	No
109	dryer	dp-2	dp	1	us-2					False	No
109	mixer	mw-1	mw	1	fe-4					False	No
109	dryer	dp-4	dp	1	us-4					False	No
109	periodic kiln	pk-3	pk	1	us-6					False	No
109	periodic kiln	pk-1	pk	1	us-5					False	No
109	periodic kiln	pk-2	pk	1	us-5					False	No
109	dryer	dp-1	dp	1	us-1					False	No
109	periodic kiln-idle	pk-4	pk	1	us-7					False	No
109	extruder	fw-1	extruder	1	fe-5					False	No
109	periodic kiln-idle	pk-5	pk	1	us-8					False	No
109	dryer	dp-3	dp	1	us-3					False	No
109	storage	mh-1	mh	1	fe-1					False	No
109	sizing	gs-1	gs	1	fe-2					False	No
109	batching	we-1	we	1	fe-3					False	No
110	extruder/cutter	fw-1	extruder	1	fe-2					False	No
110	storage	mh-1	mh	1	fe-1					False	No
110	sand mixer	md-1	md	1		bhi-1				False	No
110	mixer	mw-1	mw	1		bhi-1				False	No
110	batcher (HAP processor)	we-1	we	1		bhi-1				False	No
110	grinding plant	gs-1	gs	1	fe-1					False	No
110	brick dryer	dc-1	dc	1	us-2					False	No
110	tunnel kiln	tk-1	tk	1	us-1					False	No
110	colorer	cta-1	cta	1		bhi-1				False	No
111	soft mud forming	fw-1	molding	1		bhi-2				False	No
111	brick dryer	dc-1	dc	1	us-1 to us-6					False	No
111	mixer	mw-1	mw	1		bhi-2				False	No
111	batcher	we-1	we	1	fe-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
111	storage	mh-2	mh	1	fe-3					False	No
111	storage	mh-1	mh	1		bhi-1				False	No
111	screens	s-1	s	1		bhi-1				False	No
111	grinding	g-1	g	1		bhi-1				False	No
111	sand dryer	dr-1	dr-sand	1		bhi-4				False	No
111	pre-heater	misc-1	predryer	1	us-7					False	No
111	setting	misc-2	misc	1		bhi-3				False	No
111	tunnel kiln	tk-1	tk	1	us-8					True	No
111	crushing	cr-1	cr	1		bhi-1				False	No
112	extruder	fw-1	extruder	1	fe-5					False	No
112	periodic kiln	pk-8	pk	1	us-1					True	No
112	color applier	cta-2	cta	1		bhi-3				False	No
112	dryer	dc-1	dc	1	us-3 to us-5					False	No
112	dryer	dc-2	dc	1	us-6					False	No
112	glaze set shuttle kiln	misc-4	glaze set kiln	1	us-10,us-18					False	No
112	crusher	cr-1	cr	1	fe-1					False	No
112	periodic kiln	pk-16	pk	1	us-2					True	No
112	crusher	cr-2	cr	1		bhi-1,2,4,5				False	No
112	crusher	cr-3	cr	1		bhi-9 to bhi-10				True	No
112	grinder	g-1	g	1	fe-2					False	No
112	grinder	g-2	g	2		bhi-1,2,4,5				False	No
112	grinder	g-3	g	3		bhi-9 to 10				True	No
112	storage	mh-1	mh	1	fe-3					False	No
112	storage	mh-2	mh	1		bhi-1,3,4,5				False	No
112	storage	mh-3	mh	1		bhi-11				False	No
112	scales	we-1	we	1	fe-4					False	No
112	dryer	dc-4	dc	1	us-14					True	No
112	dryer	dc-5	dc	1	us-15					True	No
112	dryer	dc-6	dc	1	us-16					True	No
112	Mud dryer	misc-3	misc	1		bhi-8				False	No
112	kiln	tk-6	tk	1	us-13					True	No
112	kiln	tk-5	tk	1	us-12					True	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
112	kiln	tk-4	tk	1	us-11					True	No
112	kiln	tk-3	tk	1	us-9					True	No
112	kiln	tk-2	tk	1	us-9					True	No
112	kiln	tk-1	tk	1	us-8					True	No
112	periodic kiln	pk-20	pk	1	us-2					True	No
112	periodic kiln	pk-19	pk	1	us-2					True	No
112	periodic kiln	pk-18	pk	1	us-2					True	No
112	periodic kiln	pk-17	pk	1	us-2					True	No
112	pre heater	misc-1	predryer	1	us-17					False	No
112	periodic kiln	pk-1	pk	1	us-1					True	No
112	periodic kiln	pk-2	pk	1	us-1					True	No
112	periodic kiln	pk-3	pk	1	us-1					True	No
112	periodic kiln	pk-4	pk	1	us-1					True	No
112	periodic kiln	pk-5	pk	1	us-1					True	No
112	periodic kiln	pk-6	pk	1	us-1					True	No
112	periodic kiln	pk-7	pk	1	us-1					True	No
112	periodic kiln	pk-9	pk	1	us-1					True	No
112	periodic kiln	pk-10	pk	1	us-1					True	No
112	extruder	fw-2	extruder	1		bhi-3				False	No
112	periodic kiln	pk-15	pk	1	us-2					True	No
112	periodic kiln	pk-13	pk	1	us-2					True	No
112	periodic kiln	pk-14	pk	1	us-2					True	No
112	color applier	cta-1	cta	1	fe-6					False	No
112	extruder	fw-3	extruder	1		bhi-11				False	No
112	Mud dryer	misc-2	misc	1		bhi-7				False	No
112	screens (11)	s-3	s	11		bhi-9, -10				False	No
112	screen	s-2	s	6		bhi-1, 2, 4, 6				False	No
112	screen	s-1	s	1	fe-2					False	No
112	mixer	mw-3	mw	1		bhi-11				False	No
112	mixer	mw-2	mw	1		bhi-3				False	No
112	mixer	mw-1	mw	1	fe-7					False	No
112	scales (HAP processing)	we-3	we	1		bhi-11				False	No
112	scales (HAP processing)	we-2	we	1		bhi-3				False	No
112	waxer	gz-2	gz	1	fe-13					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
112	glaze	gz-1	gz	1	fe-12					False	No
112	periodic kiln	pk-12	pk	1	us-2					True	No
112	periodic kiln	pk-11	pk	1	us-2					True	No
112	dryer	dc-3	dc	1	us-7					False	No
113	batch dryer	dp-1	dp	1	us-3 to us-4					False	No
113	dryer	dc-1	dc	1	us-2					False	No
113	tunnel kiln	tk-1	tk	1	us-1					False	No
113	crusher	cr-1	cr	1	fe-3					False	No
113	pug mill	mw-1	mw	1	fe-4					False	No
113	sand feeder	we-1, we-3	we	2	fe-1 to fe-2					False	No
113	extruding	fw-2	extruder	1	fe-6					False	No
113	clay feeder	we-2	we	1	fe-7					False	No
113	pug mill	mw-2	mw	1	fe-5					False	No
113	wet forming	fw-1	extruder	1	fe-10					False	No
113	pug mill	mw-3	mw	1	fe-11					False	No
113	crushers	cr-2, cr-3	cr	2	fe-8 to fe-9					False	No
114	slurry mixers	mw-2	mw	1	fe-11					False	No
114	additive feeder	cta-1	cta	1	fe-8					False	No
114	tunnel kiln	tk-1	tk	1	us-1					False	No
114	batching grinding	g-1	g	1	fe-2					False	No
114	screening	s-1	s	1	fe-3					False	No
114	pug mill	mw-1	mw	1	fe-6					False	No
114	stroage	ru-2	ru	1	fe-4					False	No
114	dry mixing	md-1	md	1	fe-5					False	No
114	clay storage	ru-1	ru	1	fe-1					False	No
114	cutting	misc-1	misc	1	fe-9					False	No
114	drying	dc-1	dc	1	us-2					False	No
114	extruding	fw-1	extruder	1	fe-7					False	No
115	hammer mill	g-1	g	1	fe-2					False	No
115	vibrating screens	s-1, s-2	s	2	fe-3 to fe-4					False	No
115	front end loader	md-1	md	1	fe-1					False	No
115	pug mill	mw-1	mw	1	fe-6					False	No
115	extruder	fw-1	extruder	1	fe-7					False	No
115	hopper	we-1	we	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
115	cutting	misc-1	misc	1	fe-9					False	No
115	holding room	misc-2	predryer	1	us-3					False	No
115	coloring	cta-1	cta	1	fe-8					False	No
115	dryer	dc-1	dc	1	us-2					False	No
115	tunnel kiln	tk-1	tk	1	us-1					False	No
116	tunnel kiln	tk-1	tk	1	us-3					False	No
116	cutting/setting	misc-1	misc	1	fe-11					False	No
116	color/texturer	cta-1	cta	1	fe-10					False	No
116	dryer	dc-1	dc	1	us-1, us-2					False	No
116	mixet (wet)	mw-1	mw	1	fe-8					False	No
116	storage	ru-1, ru-2	ru	2	fe-6, fe-7					False	No
116	extruder	fw-1	extruder	1	fe-9					False	No
116	grinder	g-1	g	1	fe-2					False	No
116	crusher	cr-1	cr	1	fe-1					False	No
116	screens	s-1 to s-3	s	3	fe-3 to fe-5					False	No
116	periodic kiln-idle	pk-2	pk	1	us-5					False	No
116	periodic kiln-idle	pk-3	pk	1	us-6					False	No
116	periodic kiln-idle	pk-1	pk	1	us-4					False	No
116	periodic kiln-idle	pk-7	pk	1	us-10					False	No
116	periodic kiln-idle	pk-4	pk	1	us-7					False	No
116	periodic kiln-idle	pk-5	pk	1	us-8					False	No
116	periodic kiln-idle	pk-6	pk	1	us-9					False	No
117	storage	ru-2 to ru-6	ru	5	fe-9 to fe-13					False	No
117	storage	ru-1	ru	1	fe-2					False	No
117	mixer (wet)	mw-1	mw	1	fe-14					False	No
117	extruder	fw-1	extruder	1	fe-15					False	No
117	dryer	dc-3	dc	1	us-5 to us-6					False	No
117	dryer	dc-1	dc	1	us-1 to us-2					False	No
117	dryer	dc-2	dc	1	us-3 to us-4					False	No
117	gas fired boilers	misc-1 to misc-4	misc	4	us-11 to us-14					False	No
117	dryer	dc-4	dc	1	us-7 to us-8					False	No
117	dryer	dc-5	dc	1	us-9 to us-10					False	No
117	periodic kiln	pk-2	pk	1	us-17 tous-18					False	No
117	glaze	gz-1	gz	1	us-61					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
117	periodic kiln	pk-1	pk	1	us-15 to us-16					False	No
117	periodic kiln	pk-5	pk	1	us-22					False	No
117	periodic kiln	pk-3	pk	1	us-19 to us-20					False	No
117	periodic kiln	pk-4	pk	1	us-21					False	No
117	periodic kiln	pk-8	pk	1	us-25					False	No
117	periodic kiln	pk-6	pk	1	us-23					False	No
117	periodic kiln	pk-7	pk	1	us-24					False	No
117	periodic kiln	pk-11	pk	1	us-28					False	No
117	periodic kiln	pk-9	pk	1	us-26					False	No
117	periodic kiln	pk-10	pk	1	us-27					False	No
117	periodic kiln	pk-14	pk	1	us-31					False	No
117	periodic kiln	pk-12	pk	1	us-29					False	No
117	periodic kiln	pk-13	pk	1	us-30					False	No
117	periodic kiln	pk-17	pk	1	us-34					False	No
117	periodic kiln	pk-15	pk	1	us-32					False	No
117	periodic kiln	pk-16	pk	1	us-33					False	No
117	periodic kiln	pk-21	pk	1	us-38					False	No
117	periodic kiln	pk-19	pk	1	us-36					False	No
117	periodic kiln	pk-20	pk	1	us-37					False	No
117	periodic kiln	pk-25	pk	1	us-42					False	No
117	periodic kiln	pk-23	pk	1	us-40					False	No
117	periodic kiln	pk-24	pk	1	us-41					False	No
117	periodic kiln	pk-28	pk	1	us-45					False	No
117	periodic kiln	pk-26	pk	1	us-43					False	No
117	periodic kiln	pk-27	pk	1	us-44					False	No
117	periodic kiln	pk-31	pk	1	us-48					False	No
117	periodic kiln	pk-29	pk	1	us-46					False	No
117	periodic kiln	pk-30	pk	1	us-47					False	No
117	periodic kiln	pk-34	pk	1	us-51					False	No
117	periodic kiln	pk-32	pk	1	us-49					False	No
117	periodic kiln	pk-33	pk	1	us-50					False	No
117	periodic kiln	pk-37	pk	1	us-54					False	No
117	periodic kiln	pk-35	pk	1	us-52					False	No
117	periodic kiln	pk-36	pk	1	us-53					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
117	periodic kiln	pk-40	pk	1	us-57					False	No
117	periodic kiln	pk-38	pk	1	us-55					False	No
117	periodic kiln	pk-39	pk	1	us-56					False	No
117	periodic kiln	pk-43	pk	1	us-60					False	No
117	periodic kiln	pk-41	pk	1	us-58					False	No
117	periodic kiln	pk-42	pk	1	us-59					False	No
117	screen	s-1 to s-5	s	5	fe-4 to fe-8					False	No
117	periodic kiln	pk-22	pk	1	us-39					False	No
117	grinder	g-1	g	1	fe-3					False	No
117	crusher	cr-1	cr	1	fe-1					False	No
117	periodic kiln	pk-18	pk	1	us-35					False	No
118	storage	ru-1 to ru-2	ru	2	fe-7 to fe-8					False	No
118	tunnel kiln A	tk-1	tk	1	us-4					False	No
118	tunnel kiln B	tk-2	tk	1	us-5					False	No
118	tunnel kiln C	tk-3	tk	1	us-6					False	No
118	crushing	cr-1 to cr-2	cr	2	fe-1 to fe-2					False	No
118	grinding	g-1 to g-2	g	2	fe-3 to fe-4					False	No
118	screening	s-1 to s-2	s	2	fe-5 to fe-6					False	No
118	dryer	dc-3	dc	1	us-3					False	No
118	pug mill	mw-1 to mw-2	mw	2	fe-9 to fe-10					False	No
118	extruding	fw-1 to fw-2	extruder	2	fe-11 to fe-12					False	No
118	color/texture	cta-1 to cta-2	cta	2	fe-13 to fe-14					False	No
118	cutting	misc-1	misc	1	fe-15					False	No
118	dryer	dc-1	dc	1	us-1					False	No
118	dryer	dc-2	dc	1	us-2					False	No
119	screens	s-1 to s-2	s	2		bh-1				False	No
119	tunnel kiln	tk-1	tk	1	us-4					False	No
119	crusher	cr-1	cr	1	fe-1					False	No
119	grinders	g-1 to g-2	g	2		bh-1				False	No
119	dryer	dc-2	dc	1	us-2					False	No
119	storage	ru-1	ru	1	fe-2					False	No
119	pug mill	mw-1	mw	1	fe-3					False	No
119	extruder	fw-1	extruder	1	fe-4					False	No
119	colorer/texturer	cta-1	cta	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
119	cutting	misc-1	misc	1	fe-6					False	No
119	dryer	dc-1	dc	1	us-1					False	No
119	holding room	misc-1	predryer	1	us-3					False	No
120	mixer	mw-1	mw	1	fe-6					False	No
120	storage	ru-1	ru	1	fe-5					False	No
120	screen	s-2	s	1	fe-4					False	No
120	extruder	fw-1	extruder	1	fe-7					False	No
120	texture	cta-1	cta	1	fe-8					False	No
120	grinder	g-1	g	1	fe-2					False	No
120	crusher	cr-1	cr	1	fe-1					False	No
120	tunnel kiln	tk-1	tk	1	us-1					False	No
120	brick dryer	dc-1	dc	1	us-2					False	No
120	cutter	misc-1	misc	1	fe-9					False	No
120	screen	s-1	s	1	fe-3					False	No
121	wet mixer	mw-1	mw	1	fe-5					False	No
121	crusher	cr-1	cr	1	fe-1					False	No
121	grinder	g-1	g	1	fe-2					False	No
121	screens	s-1 to s-2	s	2	fe-3, fe-9					False	No
121	storage	ru-1	ru	1	fe-4					False	No
121	tunnel kiln	tk-1	tk	1	us-1					False	No
121	extruder	fw-1	extruder	1	fe-6					False	No
121	color texture	cta-1	cta	1	fe-7					False	No
121	cutting	misc-1	misc	1	fe-8					False	No
121	dryer	dc-1	dc	1	us-2					False	No
122	tunnel dryer	dc-1	dc	1	us-3 to us-4					False	No
122	tunnel kiln	tk-1	tk	1	us-5					False	No
122	color coating	cta-1	cta	1	fe-6					False	No
122	sand dryer	dr-2	dr-sand	1	us-2					False	No
122	stockpile	os-1	misc	1	fe-1					False	No
122	pre screen	s-1	s	1	fe-2					False	No
122	grinder	g-1	g	1	fe-2					False	No
122	finish screening	s-2	s	1	fe-2					False	No
122	storage bins	ru-1	ru	1	fe-3					False	No
122	put tubs	mw-1	mw	1	us-6					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
122	body additive storage	mh-1	mh	1	fe-7					False	No
122	conveyor	mh-2	mh	1	fe-4					False	No
122	extruder	fw-1	extruder	1	fe-5					False	No
122	color mixing	md-1	md	1	fe-8					False	No
122	clay dryer	dr-1	dr-clay	1	us-1					False	No
123	grinders	gr-1	gr	1		bh-4				False	No
123	clay stock pile	mh-1	mh	1	fe-10					False	No
123	crusher	cr-1	cr	1	fe-9					False	No
123	crusher	cr-2	cr	1					ws-1	False	No
123	storage bins	mh-2 to mh-3	mh	2		bh-1 to bh-2				False	No
123	storage bins	mh-4	mh	1	fe-7					False	No
123	grinder	g-1 to g-3	g	3		bh-1 to bh-2				False	No
123	screens	s-1 to s-2	s	2		bh-1 to bh-2				False	No
123	tower bins	we-1	we	1	fe-6					False	No
123	pug mills	mw-1 to mw-3	mw	3	fe-11 to fe-13					False	No
123	extruders	fw-1 to fw-3	extruder	3	fe-3 to fe-5					False	No
123	dryers	dp-2	dp	1	us-10					False	No
123	dryers	dp-3	dp	1	us-10					False	No
123	dryers	dp-4	dp	1	us-10					False	No
123	dryers	dp-5	dp	1	us-10					False	No
123	dryers	dp-6	dp	1	us-10					False	No
123	dryers	dp-7	dp	1	us-10					False	No
123	dryers	dp-8	dp	1	us-10					False	No
123	dry finish	cta-1	cta	1		bh-3				False	No
123	glazing	gz-1	gz	1				sc-1		False	No
123	tunnel kiln	tk-1	tk	1	us-5					True	No
123	tunnel kiln	tk-2	tk	1	us-8					True	No
123	periodic kiln	pk-1	pk	1	us-1					False	No
123	periodic kiln	pk-14	pk	1	us-7					False	No
123	periodic kiln	pk-15	pk	1	us-6					False	No
123	periodic kiln	pk-13	pk	1	us-4					False	No
123	grinders	g-2	g	1		bh-4				False	No
123	periodic kiln	pk-2	pk	1	us-1					False	No
123	periodic kiln	pk-3	pk	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
123	periodic kiln	pk-4	pk	1	us-2					False	No
123	periodic kiln	pk-5	pk	1	us-2					False	No
123	periodic kiln	pk-6	pk	1	us-2					False	No
123	periodic kiln	pk-7	pk	1	us-3					False	No
123	periodic kiln	pk-8	pk	1	us-3					False	No
123	periodic kiln	pk-9	pk	1	us-3					False	No
123	periodic kiln	pk-10	pk	1	us-4					False	No
123	periodic kiln	pk-11	pk	1	us-4					False	No
123	periodic kiln	pk-12	pk	1	us-4					False	No
123	Prouty kiln (tk)-idle	tk-3	tk-idle	1	us-11					False	No
124	mixing	mw-1	mw	1	fe-2					False	No
124	crusher	cr-1	cr	1	us-1					False	No
124	grinding	g-1	g	1		bh-1 to bh-2				False	No
124	screen	s-1	s	1		bh-2				False	No
124	storage	mh-1	mh	1	fe-1					False	No
124	rotary dryer	dr-1	dr-sand	1		bh-3				False	No
124	extruder	fw-1	extruder	1		bh-3				False	No
124	coloring	cta-1	cta	1		bh-3				False	No
124	dryer	dc-1	dc	1	us-2					False	No
124	kiln	tk-1	tk	1	us-3					False	No
124	sand mixer	md-1	md	1		bh-3				False	No
124	sand mixer	md-2	md	1		bh-3				False	No
125	periodic kiln	pk-5	pk	1	us-6					False	No
125	periodic kiln	pk-3	pk	1	us-4					False	No
125	periodic kiln	pk-4	pk	1	us-5					False	No
125	pugmill	mw-1	mw	1	fe-6					False	No
125	crusher	cr-1	cr	1	fe-1					False	No
125	screen	s-1,s-2	s	2	fe-2, fe-4					False	No
125	grinder	g-1	g	1	fe-3					False	No
125	storage	mh-1	mh	1	fe-5					False	No
125	periodic kiln	pk-2	pk	1	us-3					False	No
125	extruder	fw-1	extruder	1	fe-7					False	No
125	coating	cta-1	cta	1	fe-8					False	No
125	dryer	dc-1	dc	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
125	periodic kiln	pk-1	pk	1	us-2					False	No
126	screen	s-1	s	1	fe-2					False	No
126	decinerator	g-1	g	1	fe-1					False	No
126	periodic kiln	pk-6	pk	1	us-6					False	No
126	storage	mh-1	mh	1	fe-3					False	No
126	pugmill	mw-1	mw	1	fe-4					False	No
126	extruder	fw-1	extruder	1	fe-5					False	No
126	sand coating	cta-1	cta	1	fe-6					False	No
126	holding room	misc-1	predryer	1	us-8					False	No
126	dryer	dc-1	dc	1	us-7					False	No
126	periodic kiln	pk-1	pk	1	us-1					False	No
126	periodic kiln	pk-2	pk	1	us-2					False	No
126	periodic kiln	pk-3	pk	1	us-3					False	No
126	periodic kiln	pk-4	pk	1	us-4					False	No
126	periodic kiln	pk-5	pk	1	us-5					False	No
127	screen	s-1 to s-2	s	2	fe-1					False	No
127	feeder	mh-1	mh	1	fe-1					False	No
127	dry pan	g-1	g	1	fe-1					False	No
127	periodic kiln	pk-2	pk	1	us-2					False	No
127	feeder	mh-2	mh	1	fe-1					False	No
127	extruder	fw-1	extruder	1	fe-3					False	No
127	dryer	dc-1	dc	1	us-7 to us-8					True	No
127	periodic kiln	pk-1	pk	1	us-1					False	No
127	mixer	mw-1	mw	1	fe-2					False	No
127	periodic kiln	pk-3	pk	1	us-3					False	No
127	periodic kiln	pk-4	pk	1	us-4					False	No
127	periodic kiln	pk-5	pk	1	us-5					False	No
127	periodic kiln	pk-6	pk	1	us-6					True	No
128	mixer	mw-1	mw	1	fe-5					False	No
128	grinder	g-1	g	1	fe-3					False	No
128	screen	s-1	s	1	fe-4					False	No
128	dryer	dc-1	dc	1	us-1					True	No
128	extruder	fw-1	extruder	1	fe-6					False	No
128	holding room	misc-1	predryer	1	fe-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
128	holding room	misc-2	predryer	1	fe-2					False	No
128	dryer	dc-2	dc	1	us-2					False	No
128	kiln	tk-1	tk	1				da-1		True	No
128	coloring	cta-1	cta	1		bh-1				False	No
129	dryer	dc-2	dc	1	us-3					False	No
129	holding room	misc-1	predryer	1	us-1					False	No
129	grinding room	gs-1	gs	1	fe-1					False	No
129	kiln	tk-1	tk	1	us-4					True	No
129	dryer	dc-1	dc	1	us-2					True	No
129	coloring	cta-1	cta	1		bh-1				False	No
129	extruder	fw-1	extruder	1	fe-3					False	No
129	mixer	mw-1	mw	1	fe-2					False	No
130	grinding plant	gs-1	gs	1	fe-1					False	No
130	extruder/cutter	fw-1	extruder	1	fe-5					False	No
130	tunnel kiln	tk-1	tk	1	us-3					False	No
130	brick dryer	dc-1	dc	1	us-1 to us-2					False	No
130	tunnel kiln	tk-2	tk	1	us-4					False	No
130	storage	mh-1	mh	1	fe-2					False	No
130	batching	we-1	we	1	fe-3					False	No
130	mixing	mw-1	mw	1	fe-4					False	No
131	primary crusher	cr-1	cr	1	fe-6					False	No
131	dryer	dc-1	dc	1	us-4					False	No
131	dryer	dc-3	dc	1	us-5					False	No
131	tunnel kiln	tk-1	tk	1	us-6					True	No
131	tunnel kiln	tk-2	tk	1	us-7					False	No
131	sand dryer	dr-1	dr-sand	1		bh-1				False	No
131	sand mixing area	md-1	md	1	us-1 to us-2					False	No
131	holding room	misc-2	predryer	1	us-3					False	No
131	dryer	dc-4	dc	1	us-5					False	No
131	screen	s-1	s	1	fe-12					False	No
131	grinder	g-1	g	1	fe-13					False	No
131	cutter/setter	misc-1	misc	1	fe-5					False	No
131	coating/texture	cta-1	cta	1	fe-4					False	No
131	extruder	fw-1	extruder	1	fe-3					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
131	mixer	mw-1	mw	1	fe-1					False	No
131	mixer	mw-2	mw	1	fe-2					False	No
131	disintegrating	g-2	g	1	fe-9					False	No
131	disintegrating	g-3	g	1	fe-11					False	No
131	hopper	mh-1	mh	1	fe-15					False	No
131	smooth rolling	misc-3	misc	1	fe-10					False	No
131	feeder	mh-3, mh-6	mh	2	fe-8, fe-16					False	No
131	additive/coating	mh-5	mh	1	fe-17					False	No
131	sand storage	mh-4	mh	1	fe-14					False	No
131	dryer	dc-2	dc	1	us-4					False	No
132	hopper	mh-5	mh	1	fe-9					False	No
132	kiln	tk-1	tk	1	us-7					False	No
132	storage	mh-3	mh	1	fe-5					False	No
132	hopper	mh-1	mh	1	fe-4					False	No
132	feeder	mh-2	mh	1	fe-3					False	No
132	pug mills 2	mw-1 to mw-2	mw	2	fe-2 to fe-19					False	No
132	forming/coating	fw-1 to fw-3	extruder	3	us-10,us-11,us-13					False	No
132	holding	misc-2	predryer	1	fe-1					False	No
132	dryers	dc-1	dc	1	us-1					False	No
132	setting	misc-1	misc	1	us-12					False	No
132	dryer	dc-2	dc	1	us-2					False	No
132	dryer	dc-3	dc	1	us-3					False	No
132	dryer	dc-4	dc	1	us-4					False	No
132	dryer	dc-5	dc	1	us-5					False	No
132	dryer	dc-6	dc	1	us-6					False	No
132	storage	mh-4	mh	1	fe-8					False	No
132	feeder	mh-6	mh	1	fe-10					False	No
132	pug mill 3	mw-3	mw	1	fe-11					False	No
132	pug mill	mw-4	mw	1	fe-12					False	No
132	pug mill	mw-5	mw	1	fe-13					False	No
132	extruder	fw-4	extruder	1	fe-14					False	No
132	special dryer 2	dc-7	dc	1	us-8					False	No
132	special dryer 2	dc-8	dc	1	us-9					False	No
133	dryer	dc-1	dc	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
133	sand coater	cta-1	cta	1		bh-1				False	No
133	tunnel kiln plant 3	tk-1	tk	1	us-11,us-12					False	No
133	tunnel kiln plant 3	tk-2	tk	1	us-9,us-10					True	No
133	tunnel kiln plant 5	tk-3	tk	1	us-18					True	No
133	dryer	dc-9	dc	1	us-15 to us-17					False	No
133	sand coater	cta-2	cta	1		bh-2				False	No
133	rotary mixer 2	mw-1 to mw-2	mw	2	us-1 to us-2					False	No
133	fluid bed dryer 1	dr-1	dr-clay	1	us-3					False	No
133	feeders 28	mh-1 to mh-28	mh	28	fe-1 to fe-28					False	No
133	hoppers 8	mh-29 to mh-36	mh	8	fe-29 to fe-36					False	No
133	storage bins 44	ru-1 to ru-44	ru	44	fe-37 to fe-80					False	No
133	pug mill 6	mw-3 to mw-8	mw	6	fe-81 to fe-86					False	No
133	crushers 7	cr-1 to cr-7	cr	7	fe-87 to fe-93					False	No
133	extruders 5	fw-1 to fw-5	extruder	5	fe-94 to fe-98					False	No
133	mills 3	g-1 to g-3	g	3	fe-99 to fe-101					False	No
133	screens 9	s-1 to s-9	s	9	fe-102 to fe-110					False	No
133	dryer	dc-2	dc	1	us-2					False	No
133	dryer	dc-3	dc	1	us-3					False	No
133	dryer	dc-4	dc	1	us-4					False	No
133	dryer	dc-5	dc	1	us-5					False	No
133	dryer	dc-6	dc	1	us-6					False	No
133	dryer	dc-7	dc	1	us-7					False	No
133	dryer	dc-8	dc	1	us-8					False	No
134	extruder	fw-1	extruder	1	fe-40					False	No
134	wet pan grinder	g-1	g	1					ws-1	False	No
134	screens	s-1 to s-2	s	2	fe-36 to fe-37					False	No
134	tank	mw-1	mw	1	fe-38					False	No
134	mixer	mw-2	mw	1	fe-39					False	No
134	blue/brown separator	misc-1	misc	1	fe-34					False	No
134	dyeing	cta-1	cta	1	fe-41					False	No
134	tunnel kiln	tk-1	tk	1	us-4					False	No
134	tunnel kiln	tk-2	tk	1	us-5					False	No
134	tunnel kiln	tk-3	tk	1	us-6					False	No
134	tunnel dryer	dc-1	dc	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
134	tunnel dryer	dc-2	dc	1	us-2					False	No
134	tunnel dryer	dc-3	dc	1	us-3					False	No
134	conveyors	mh-4 to mh-27	mh	24	fe-7 to fe-30					False	No
134	front end loaders	mh-1 to mh-3	mh	3	fe-4 to fe-6					False	No
134	storage	os-1 to os-2	misc	2	fe-1 to fe-2					False	No
134	crusher	cr-1	cr	1	fe-2					False	No
134	crusher	cr-2	cr	1	fe-33					False	No
134	storage	os-3	misc	1	fe-35					False	No
135	dryers	dc-1	dc	1	us-4					False	No
135	color application	cta-1 to cta-2	cta	2	fe-6, fe-12					False	No
135	crusher	cr-2	cr	1	fe-7					False	No
135	mixers	mw-1 to mw-2	mw	2	fe-4, fe-10					False	No
135	dryer	dc-2	dc	1	us-5					False	No
135	dryer	dc-3	dc	1	us-6					False	No
135	screens	s-3 to s-4	s	2	fe-9					False	No
135	kiln 1	tk-1	tk	1	us-1					True	No
135	extruder	fw-1 to fw-2	extruder	2	fe-5, fe-11					False	No
135	crusher	cr-1	cr	1	fe-1					False	No
135	screens	s-1 to s-2	s	2	fe-3					False	No
135	hammermill	g-1	g	1	fe-2					False	No
135	kiln 3	tk-3	tk	1	us-3					True	No
135	kiln 2	tk-2	tk	1	us-2					True	No
135	hammermill	g-2	g	1	fe-8					False	No
136	mixer	mw-1	mw	1	fe-2					False	No
136	screen	s-1	s	1	fe-4					False	No
136	color/texture	cta-1	cta	1		bh-1				False	No
136	extruder	fw-1	extruder	1	fe-3					False	No
136	storage	mh-1	mh	1	fe-1					False	No
136	setting	misc-1	misc	1		bh-1				False	No
136	dryer	dc-1	dc	1	us-2					False	No
136	arch grinder	gr-1	gr	1		bh-3				False	No
136	tunnel kiln	tk-1	tk	1	us-4					False	No
136	grinder	g-1	g	1		bh-1				False	No
136	coal prep	cc-1	cc	1		bh-2				False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
136	crusher	cr-1	cr	1	us-1					False	No
136	dryer	dc-2	dc	1	us-2					False	No
136	dryer	dc-3	dc	1	us-3					False	No
136	dryer	dc-4	dc	1	us-3					False	No
137	brick packing	misc-1	misc	1					cy-3	False	No
137	sand applicator	cta-2	cta	1					cy-2	False	No
137	tunnel kiln	tk-1	tk	1					ds-1	True	No
137	tunnel kiln	tk-2	tk	1					ds-1	True	No
137	tunnel kiln	tk-3	tk	1	us-4					True	No
137	sand mixer app.	cta-1	cta	1					cy-1	False	No
137	tunnel kiln low profile, fast fire	tk-5	tk	1	us-3					True	No
137	mixer	mw-1 to mw-3	mw	3	fe-1 to fe-3					False	No
137	extruder	fw-1 to fw-3	extruder	3	fe-4 to fe-6					False	No
137	sawdust dryer w/cydone	ds-1	ds	1	us-1					False	No
137	sawdust dryer w/cydone	ds-2	ds	1	us-2					False	No
137	tunnel kiln	tk-4	tk	1	us-4					True	No
137	storage	mh-1	mh	1	fe-7					False	No
137	crusher	cr-1	cr	1	fe-8					False	No
137	crusher	cr-2	cr	1	fe-9					False	No
137	grinders (4)	g-1	g	4	fe-10					False	No
137	storage	mh-2	mh	1	fe-4					False	No
137	dryers	dc-1	dc	1	us-5					False	No
137	dryers	dc-2	dc	1	us-6					False	No
137	dryers	dc-3	dc	1	us-7					False	No
137	screens (16)	s-1	s	16	fe-10					False	No
137	tunnel kiln	tk-6	tk	1	us-9					False	No
137	dryers	dc-4	dc	1	us-8					False	No
137	mixer	md-1	md	1					cy-1	False	No
138	mixer dry	md-1	md	1	fe-3					False	No
138	tunnel kiln	tk-1	tk	1	us-5					True	No
138	dryer tunnel	dc-2	dc	1	us-3					False	No
138	dryer tunnel	dc-3	dc	1	us-4					False	No
138	raw storage	mh-1	mh	1	fe-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
138	mixer sand	md-2	md	1	fe-10					False	No
138	grinder	g-1	g	1	fe-4					False	No
138	mixer wet	mw-1	mw	1	fe-5					False	No
138	extruder	fw-1	extruder	1	fe-6					False	No
138	color/texture	cta-1	cta	1	fe-7					False	No
138	crusher	cr-2	cr	1	fe-9					False	No
138	setting	misc-1	misc	1	fe-8					False	No
138	tunnel dryer	dc-1	dc	1	us-2					False	No
138	rotary dryer	dr-1	dr-sand	1	us-1					False	No
138	crusher	cr-1	cr	1	fe-1					False	No
139	tunnel kiln	tk-1	tk	1	us-1					False	No
139	screening	s-1	s	1					oc-1	False	No
139	storage	mh-1	mh	1	fe-1					False	No
139	storage	mh-2	mh	1	fe-4					False	No
139	mixer	mw-1	mw	1	fe-2					False	No
139	extruder	fw-1	extruder	1	fe-3					False	No
139	dryer	dc-1	dc	1	us-1					False	No
139	crushing 2	cr-1	cr	2					oc-1	False	No
140	screening	s-1	s	1	us-4					False	No
140	mixing	md-1	md	1	us-5					False	No
140	brick machine	mw-1	mw	1	us-5					False	No
140	dryer	dc-1	dc	1	us-1					False	No
140	shapes dryer	dc-2	dc	1	us-2					False	No
140	hammermills 2	g-1	g	2	us-4					False	No
140	tunnel kiln	tk-1	tk	1	us-3					False	No
140	color/texture	cta-1	cta	1	fe-1					False	No
141	clay grinding and screening	gs-1	gs	1		bh-1				False	No
141	raw materials storage	ru-1	ru	1	us-2					False	No
141	glaze mixing	mw-1	mw	1	fe-1					False	No
141	glaze grinding	g-1	g	1	fe-2					False	No
141	grog crusher	cr-1	grog cr	1	us-1					False	No
141	clay crushing	cr-2	cr	1		bh-1				False	No
141	tunnel kiln	tk-1	tk	1	us-4					True	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
141	pug mill	mw-2	mw	1	fe-3					False	No
141	extrusion	fw-1	extruder	1	fe-4					False	No
141	glazing	gz-1	gz	1	fe-5					False	No
141	dryer	dc-1	dc	1	us-3					False	No
142	periodic kiln-idle	pk-11	pk	1	us-10					False	No
142	mill	g-1	g	1	fe-1					False	No
142	storage	mh-1	mh	1	fe-3					False	No
142	screen	s-1	s	1	fe-2					False	No
142	periodic kiln	pk-1	pk	1	us-3					False	No
142	kiln	tk-1	tk	1	us-1					False	No
142	periodic kiln	pk-6	pk	1	us-5					False	No
142	scale	we-1	we	1	fe-4					False	No
142	mixer	mw-1	mw	1	fe-5					False	No
142	forming	fw-1	extruder	1	fe-6					False	No
142	dryers	dp-1	dp	1	us-10					False	No
142	dryers	dp-2	dp	1	us-11					False	No
142	dryers	dp-3	dp	1	us-12					False	No
142	dryers	dp-4	dp	1	us-13					False	No
142	periodic kiln	pk-9	pk	1	us-8					False	No
142	periodic kiln	pk-10	pk	1	us-9					False	No
142	periodic kiln-idle	pk-12	pk	1	us-11					False	No
142	periodic kiln-idle	pk-13	pk	1	us-12					False	No
142	periodic kiln	pk-7	pk	1	us-6					False	No
142	periodic kiln	pk-3	pk	1	us-4					False	No
142	periodic kiln	pk-5	pk	1	us-5					False	No
142	periodic kiln	pk-4	pk	1	us-4					False	No
142	dryers	dp-5	dp	1	us-14					False	No
142	periodic kiln	pk-2	pk	1	us-3					False	No
142	periodic kiln	pk-8	pk	1	us-7					False	No
142	pre heater	misc-2	predryer	1	us-2					False	No
143	kiln	tk-2	tk	1	us-2					True	No
143	grinding	gs-1	gs	1	fe-11					False	No
143	dryer	dc-2	dc	1	us-4 to us-5					True	No
143	kiln	tk-1	tk	1	us-1					True	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
143	extruder	fw-1 to fw-2	extruder	2	fe-1 to fe-2					False	No
143	mixer	mw-1, mw-2	mw	2	fe-3 to fe-4					False	No
143	dryer	dc-1	dc	1	us-3					False	No
143	crusher	cr-1 to cr-2	cr	2	fe-12 to fe-13					False	No
143	rotary kiln	ca-1	ca	1	us-6			sc-1		True	No
143	rotary dryer	dr-1	dr-sand	1				sc-1		False	No
143	material handling	mh-1 to mh-6	mh	6	fe-5 to fe-10					False	No
144	extruder	fw-1	extruder	1		bh-1				False	No
144	tunnel kiln	tk-1	tk	1	us-1					True	No
144	Mn feeder belt	mh-3	mh	1	fe-15					False	No
144	brick dryer	dc-1	dc	1	us-2					True	No
144	holding room	misc-2	predryer	1	fe-14					False	No
144	storage pils	os-1 to os-6	misc	6	fe-1 to fe-6					False	No
144	screens	s-1 to s-3	s	3	fe-9 to fe-11					False	No
144	tank conveyor	mh-2	mh	1	fe-16					False	No
144	cutter	misc-1	misc	1	fe-12					False	No
144	sand feeder	mh-4	mh	1		bhi-2				False	No
144	tusture	cta-1	cta	1	fe-13					False	No
144	clay hopper	mh-1	mh	1	fe-7					False	No
144	manganese loader	mh-5 to mh-7	mh	3		bhi-3				False	No
144	white tank	misc-3	misc	1	fe-8					False	No
144	crusher	cr-1	cr	1		bhi-4				False	No
144	pug mill	mw-1	mw	1		bhi-1				False	No
144	ted tank	misc-4	misc	1	fe-17					False	No
145	bins 4	mh-1 to mh-4	mh	4	us-2					False	No
145	grinder	g-1	g	1	us-1					False	No
145	tunnel kiln-idle	tk-2	tk-idle	1	us-5					False	No
145	kiln	tk-1	tk	1	us-4					False	No
145	dryer	dc-2	dc	1	us-3					False	No
145	dryer	dc-1	dc	1	us-3					False	No
145	coloring/texturer	cta-1	cta	1	us-2					False	No
145	extruder	fw-1	extruder	1	us-2					False	No
145	mixer	mw-1	mw	1	us-2					False	No
145	mixer	md-1	md	1	fe-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
145	screens 3	s-1 to s-3	s	3	us-1					False	No
146	cutters	misc-1 to misc-2	misc	2	fe-49 to fe-50					False	No
146	pug mills	mw-1 to mw-4	mw	4	fe-51 to fe-54					False	No
146	press (follows extruder)	fw-5	misc	1	fe-59					False	No
146	hopper	mh-1	mh	1	fe-60					False	No
146	feeders	mh-2 to mh-3	mh	2	fe-61, fe-62					False	No
146	grouping belts	mh-4 to mh-5	mh	2	fe-63 to fe-64					False	No
146	silos	ru-15 to ru-17	ru	3		bh-2			cy-1	False	No
146	magnetic seperators	mh-6 to mh-11	mh	6	fe-30 to fe-35					False	No
146	conveyors	mh-22 to mh-51	mh	29	fe-1 to fe-29					False	No
146	periodic kiln	pk-1	pk	1	us-5					False	No
146	dryer	dc-1	dc	1	us-1					False	No
146	dryer	dc-3	dc	1	us-3					False	No
146	dryer	dc-2	dc	1	us-2					False	No
146	tunnel kiln	tk-1	tk	1	us-6					False	No
146	tunnel kiln	tk-2	tk	1	us-7					False	No
146	tunnel kiln	tk-3	tk	1	us-8					False	No
146	conveyor belts	mh-11 to mh-21	mh	11		bh-2			cy-1	False	No
146	screens	s-1 to s-5	s	5		bh-2			cy-1	False	No
146	hammer mill	g-1	g	1		bh-1				False	No
146	crusher	cr-1	cr	1		bh-1				False	No
146	extruders	fw-1 to fw-4	extruder	4	fe-55 to fe-58					False	No
147	coatings	cta-1	cta	1		bh-2				False	No
147	jaw crusher	cr-1	cr	1	fe-1					False	No
147	precursher	cr-2	cr	1	fe-2					False	No
147	screens	s-1 to s-2	s	2		bh-1				True	No
147	storage bins	ru-1	ru	1	fe-4					False	No
147	minicrusher	cr-3	cr	1	fe-5					False	No
147	sand dryer	dr-1	dr-sand	1		bh-2				False	No
147	tunnel kiln	tk-1	tk	1	us-1					False	No
147	brick tumbler	misc-2	misc	1	fe-8					False	No
147	conveyors 17	mh-1 to mh-17	mh	17	fe-8 to fe-24					False	No
147	dryer	dc-1	dc	1	us-2					False	No
147	soak bins	ru-2	ru	1	fe-7					True	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
147	hammer mill	g-1	g	1		bh-1				True	No
147	extruder	fw-1	extruder	1	fe-6					False	No
147	premixer	mw-1	mw	1		bh-1				True	No
147	clay stock pile	os-1	misc	1	fe-3					False	No
148	crusher	cr-1	cr	1	fe-1					False	No
148	dryer	dc-1	dc	1	us-1					False	No
148	color application	cta-1	cta	1		bh-2				True	No
148	extruder feed	mh-2	mh	1		bh-2				True	No
148	mixer	mw-1	mw	1	fe-3					False	No
148	storage	mh-1	mh	1	fe-2					False	No
148	grinding	g-1	g	2		bh-1				True	No
148	screening	s-1	s	4		bh-1				True	No
148	Tunnel kiln	tk-1	tk	1				da-1		True	No
149	grinders	g-1 to g-2	g	2	fe-2 to fe-3					False	No
149	screens	s-1 to s-5	s	5	fe-4 to fe-8					False	No
149	storage	mh-1	mh	1	fe-9					False	No
149	reclaimer	mh-2	mh	1	fe-13					False	No
149	sand mixer	md-1	md	1	fe-10	bh-1				False	No
149	tunnel kiln	tk-1	tk	1	us-1					True	No
149	dryer	dc-1	dc	1	us-3					False	No
149	crusher	cr-1	cr	1	fe-1					False	No
149	dryer	dc-2	dc	1	us-4					False	No
150	extruder	fw-1 to fw-3	extruder	3	fe-10 to fe-12					False	No
150	grinding plant	gs-1	gs	1	fe-3					False	No
150	plant 1 splitting tower	mh-1	mh	1	fe-4					False	No
150	30-50 splitting tower	mh-2	mh	1	fe-5					False	No
150	diversion tower	mh-3	mh	1	fe-6					False	No
150	30 pug mill	mw-1	mw	1	fe-7					False	No
150	50 pug mill	mw-2	mw	1	fe-8					False	No
150	90 pug mill	mw-3	mw	1	fe-9					False	No
150	crusher	cr-1	cr	1	fe-2					False	No
150	color addition	cta-1 to cta-2	cta	2				sc-1		False	No
150	color additon	cta-3	cta	1		bh-1				False	No
150	colorant mixer	md-1 to md-2	md	2				sc-1		False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
150	colorant dryer	dr-1	dr-sand	1				sc-1		False	No
150	holding room	misc-1 to misc-2	predryer	2	us-3 to us-4					False	No
150	dryer	dc-1	dc	1	us-1					False	No
150	dryer	dc-2	dc	1	us-2					False	No
150	tunnel kiln	tk-1	tk	1			diff-1			False	No
150	tunnel kiln	tk-2	tk	1			diff-2			True	No
150	crusher stockpile	os-1	misc	1	fe-1					False	No
151	dryer	dc-3	dc	1	us-3					False	No
151	periodic kiln	pk-2	pk	1	us-8					False	No
151	periodic kiln	pk-3	pk	1	us-9					False	No
151	extruding	fw-2	extruder	1	fe-2					False	No
151	grinding/screening	gs-2	gs	1	fe-1					False	No
151	coloring	cta-1	cta	1		bh-1				True	No
151	cutting	misc-2	misc	1		bh-1				True	No
151	stockpiling	mh-1, mh-3	mh	2	fe-6,fe-8					False	No
151	grinding/screens	gs-1	gs	1		bh-2				True	No
151	storage	mh-2	mh	1	fe-4					False	No
151	mixing	mw-1	mw	1	fe-7					False	No
151	extruding	fw-1	extruder	1	fe-2					False	No
151	slurry	cta-1	cta	1	fe-3					False	No
151	holding room	misc-1	predryer	1	us-6					True	No
151	drying	dc-1	dc	1	us-1					True	No
151	kiln	tk-1	tk	1			dls-1			True	No
151	dryer	dc-2	dc	1	us-2					False	No
151	periodic kiln	pk-1	pk	1	us-7					False	No
151	mixing	mw-2	mw	1	fe-7					False	No
151	periodic kiln	pk-4	pk	1	us-10					False	No
151	periodic kiln	pk-5	pk	1	us-11					False	No
151	periodic kiln	pk-6	pk	1	us-12					False	No
152	extruder	fw-1	extruder	1	fe-7					False	No
152	mixing	md-1	md	1	fe-2					False	No
152	grinding	g-1	g	1	fe-3					False	No
152	screening	s-1	s	1	fe-4					False	No
152	storage	mh-2	mh	1	fe-5					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
152	mixing	mw-1	mw	1	fe-6					False	No
152	storage	mh-1	mh	1	fe-1					False	No
152	dryer	dc-1	dc	1	us-3					False	No
152	dryer	dc-2	dc	1	us-4					False	No
152	crusher	cr-1	cr	1	fe-8					False	No
152	tunnel kiln	tk-1	tk	1	us-1					True	No
152	tunnel kiln	tk-2	tk	1	us-2					True	No
153	sizing	gr-1	gr	1		bh-3				False	No
153	tunnel kiln	tk-2	tk	1	us-9 to us-10					False	No
153	mixing	mw-1	mw	1		bh-2			cy-1	False	No
153	glaze prep	mw-2 to mw-6	mw	5	fe-8					False	No
153	screen	s-7	s	1		bh-1				False	No
153	storage bin	ru-5 to ru-6	ru	2		bh-1				False	No
153	fire brick dryer	dp-3	dp	1	us-12					False	No
153	dry pan crusher	g-3	g	1		bh-1				False	No
153	tunnel kiln	tk-1	tk	1	us-7 to us-8					False	No
153	fire brick dryer	dp-2	dp	1	us-11					False	No
153	tile dryer	dp-1	dp	1	us-1 to us-2					False	No
153	glaze booth	gz-8 to gz-11	gz	4	us-3 to us-6					False	No
153	glazing	gz-1 to gz-7	gz	7	fe-9 to fe-15					False	No
153	presses	fd-1 to fd-2	fd	2	fe-6					False	No
153	crushing	cr-1	cr	1	fe-1					False	No
153	fire brick dryer	dp-4	dp	1	us-13					False	No
153	extruder	fw-1	extruder	1	fe-7					False	No
153	storage	ru-1 to ru-4	ru	4	fe-5					False	No
153	screens	s-1 to s-6	s	6	fe-4					False	No
153	grinding	g-1 to g-2	g	2	fe-3					False	No
153	storage	ru-7	ru	1	fe-2					False	No
154	storage	mh-1	mh	1		bh-4				False	No
154	raw material stroage piles	os-1	misc	1	fe-18					False	No
154	screen	s-1	s	1		bh-2 to bh-3				False	No
154	loader material mixing	ru-1	ru	1	fe-17					False	No
154	crusher	cr-1	cr	1		bh-1				False	No
154	grinder	g-1	g	1		bh-2 to bh-3				False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
154	drip slurry	cta-1	cta	1	fe-16					False	No
154	storage	mh-2	mh	1	fe-1					False	No
154	storage	mh-3 to mh-4	mh	2		bh-5,-7,-9				False	No
154	mixer	mw-1 to mw-2	mw	2	fe-2 to fe-3					False	No
154	mixer	mw-3 to mw-4	mw	2	fe-9 to fe-10					False	No
154	mixer	mw-5	mw	1		bh-9				False	No
154	extruder	fw-1 to fw-2	extruder	2	fe-4 to fe-5					False	No
154	extruder	fw-3	extruder	1	fe-8					False	No
154	extruder	fw-4 to fw-5	extruder	2	fe-11 to fe-12					False	No
154	predryer	misc-1	predryer	1	fe-6					False	No
154	predryer	misc-2	predryer	1	fe-14					False	No
154	predryer	misc-3	predryer	1	fe-7					False	No
154	predryer	misc-5	predryer	1	fe-13					False	No
154	predryer	misc-6	predryer	1		bh-7				False	No
154	dryer	dc-1	dc	1	us-1					False	No
154	preheater	misc-4	predryer	1		bh-6 to bh-10				False	No
154	tunnel kiln	tk-1	tk	1				sc-1		True	No
154	tunnel kiln	tk-2	tk	1				sc-2		True	No
155	Sizing Screens	s-1(4)	s	4		bh-1				False	No
155	Tel-Smith Primary Crusher	cr-1	cr	1	fe-1					False	No
155	Pennsylvania Reversible Impactor	g-1	g	1		bh-1				False	No
155	Basic Double Roll Hammermill	g-2	g	1		bh-1				False	No
155	Lingl Dryer	dc-2	dc	1	us-2					False	No
155	Additive Station	we-1	we	1	fe-2					False	No
155	Surge Hopper and conveyors	mh-1 to mh5	mh	5	fe-3					False	No
155	Mixer	mw-1	mw	1		bh-2			cy-1	False	No
155	Pug Mill/Extruder	fw-1	extruder	1		bh-2			cy-1	False	No
155	Coating Application/Surface Treatment	cta-1	cta	1		bh-2			cy-1	False	No
155	Cutting Slugs	misc	misc	1	fe					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
155	Cutting Bricks	misc	misc	1	fe					False	No
155	Ceric Dryer	dc-1	dc	1	us-1					False	No
155	Holding Room	misc-1	predryer	1	fe-7					False	No
155	Tunnel Kiln	tk-1	tk	1			dls-1			False	No
155	Feeder Bins	ru-4, ru-5	ru	2	fe-4					False	No
155	Storage Bins	ru-2, ru-3	ru	2	fe-5					False	No
155	Inside Storage	ru-1	ru	1	fe-6					False	No
156	ground storage	os-1	misc	1	fe-1					False	No
156	mixing	mw-1	mw	1	fe-2					False	No
156	hand molding	fw-1	molding	1	fe-3					False	No
156	dryer	dc-1	dc	1	us-2					False	No
156	periodic kiln	pk-1	pk	1	us-1					False	No
157	dryer #1	dc-1	dc	1	us-1					False	No
157	primary crusher	cr-1	cr	1	fe-1					False	No
157	grinding screening	gs-1	gs	1	fe-2					False	No
157	rotary dryer	dr-1	dr-clay/sand	1				sc-2		False	No
157	conveyor	mh-1	mh	1	fe-3					False	No
157	dryer #2	dc-2	dc	1	us-2					False	No
157	tunnel kiln #1	tk-1	tk	1	us-3					False	No
157	tunnel kiln #2	tk-2	tk	1	us-4					False	No
157	rotary calciner (dryer)	dr-2	dr-clay/sand	1				sc-1		False	No
157	storage piles	os-1	misc	1	fe-4					False	No
158	Pug mill	mw-1	mw	1	fe-2					False	No
158	grinders	g-1 to g-3	g	3		bh-1 to bh-2				False	No
158	clay storage silos	mh-1	mh	1		bh-2				False	No
158	tunnel dryer	dc-1	dc	1	us-1 to us-2					False	No
158	tunnel kiln	tk-1	tk	1	us-3					False	No
158	grog crusher	cr-2	grog cr	1		bh-3				False	No
158	primary crusher	cr-1	cr	1	fe-1					False	No
158	extruder	fw-1	extruder	1	fe-3					False	No
158	color/texture application	cta-1	cta	1	fe-4					False	No
158	screens	s-1 to s-4	s	4		bh-1 to bh-2				False	No
159	screens	s-1 to s-2	s	2	us-3					False	No
159	crusher	cr-1	cr	1	us-1					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
159	grinder	g-1	g	1	us-2					False	No
159	color/texture app	cta-1	cta	1	fe-4					False	No
159	dryer	dc-1	dc	1	us-4					False	No
159	kiln	tk-1	tk	1	us-6					True	No
159	dryer	dc-2	dc	1	us-5					False	No
159	storage	mh-1 to mh-2	mh	2	fe-1					False	No
159	mixer	mw-1	mw	1	fe-2					False	No
159	extruder	fw-1	extruder	1	fe-3					False	No
160NR	Tunnel kiln	TK-1	tk	1	US-1					False	No
161NR	Tunnel kiln	TK-1	tk	1	US-1					False	No
161NR	Tunnel kiln	TK-2	tk	1	us-2					False	No
161NR	Periodic kiln	PK-1	pk	1	us-3					False	No
162NR	Tunnel kiln	TK-2	tk	1	us-2					False	No
162NR	Tunnel kiln	TK-1	tk	1	us-1					False	No
163NR	Tunnel kiln	TK-1	tk	1	us-1					False	No
163NR	Tunnel kiln	TK-2	tk	1	us-2					False	No
163NR	Tunnel kiln	TK-3	tk	1	us-3					False	No
163NR	Tunnel kiln	TK-4	tk	1	us-4					False	No
164NR	tunnel kiln	tk-1	tk	1	us-1					False	No
165NR	tunnel kiln	tk-1	tk	1	us-1					False	No
165NR	tunnel kiln-idle	tk-2	tk-idle	1	us-2					False	No
165NR	tunnel kiln-idle	tk-3	tk-idle	1	us-3					False	No
165NR	periodic kiln	pk-1	pk	1	us-4					False	No
166NR	tunnel kiln	tk-1	tk	1	us-1					False	No
166NR	tunnel kiln-idle	tk-2	tk-idle	1	us-2					False	No
167NR	tunnel kiln	tk-2	tk	1	us-2					False	No
167NR	tunnel kiln	tk-1	tk	1	us-1					False	No
168NR	tunnel kiln	tk-1	tk	1	us-1					False	No
168NR	periodic kiln	pk-1	pk	1	us-2					False	No
169NR	tunnel kiln	tk-1	tk	1	us-1					False	No
169NR	tunnel kiln	tk-2	tk	1	us-2					False	No
170NR	tunnel kiln	tk-2	tk	1	us-2					False	No
170NR	tunnel kiln	tk-1	tk	1	us-1					False	No
171NR	tunnel kiln-idle	tk-2	tk-idle	1	us-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
171NR	tunnel kiln	tk-1	tk	1	us-1					False	No
172NR	periodic kiln	pk-1	pk	1	us-3					False	No
172NR	tunnel kiln	tk-1	tk	1	us-1					False	No
172NR	tunnel kiln	tk-2	tk	1	us-2					False	No
173NR	tunnel kiln	tk-1	tk	1	us-1					False	No
173NR	tunnel kiln-idle	tk-2	tk-idle	1	us-2					False	No
174NR	tunnel kiln	tk-1	tk	1	us-1					False	No
174NR	tunnel kiln	tk-2	tk	1	us-2					False	No
175NR	tunnel kiln	tk-1	tk	1	us-1					False	No
176NR	Tunnel kiln	TK-2	tk	1	us-2					False	No
176NR	Tunnel kiln	TK-1	tk	1	us-1					False	No
176NR	Tunnel kiln	TK-3	tk	1	us-3					False	No
176NR	Periodic kiln	PK-1	pk	1	us-4					False	No
177NR	tunnel kiln	tk-2	tk	1	us-2					False	No
177NR	tunnel kiln	tk-1	tk	1	us-1					False	No
178NR	Tunnel kiln	TK-1	tk	1	US-1					False	No
179	mixing	mw-1	mw	1	fe-2					False	No
179	periodic kiln	pk-4	pk	1	us-2					True	No
179	moulding	fw-1	molding	1	fe-3					False	No
179	storage	mh-1	mh	1	fe-1					False	No
179	periodic kiln	pk-2	pk	1	us-2					True	No
179	periodic kiln	pk-1	pk	1	us-1					True	No
179	brick dryer	dc-1	dc	1	us-4					False	No
179	periodic kiln	pk-3	pk	1	us-3					True	No
180NR	Periodic kiln	pk-1	pk	1				da-1		False	No
181	ware dryer	dc-3	dc	1	us-6					False	No
181	tunnel kiln	tk-1	tk	1	us-1					True	No
181	shuttle kiln	pk-1	pk	1	us-2					False	No
181	envelope kiln	pk-2	pk	1	us-3					False	No
181	ware dryer	dc-1	dc	1	us-4					False	No
181	ware dryer	dc-2	dc	1	us-5					False	No
181	ware dryer	dc-4	dc	1	us-7					False	No
181	ware dryer	dc-5	dc	1	us-8					False	No
181	ware dryer	dc-6	dc	1	us-9					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
181	ware dryer	dc-7	dc	1	us-10					False	No
181	glaze booths	gz-1 to gz-8	gz	8	us-11 to us-18					False	No
182NR	tunnel kiln	tk-1	tk	1	us-1					False	No
183	mixer	mw-1	mw	1	fe					False	No
183	extruder	fw-1	extruder	1	fe					False	No
183	periodic kiln	pk-1	pk	1	us-1					False	No
184	extruders	fw-1 to fw-2	extruder	2	fe					False	No
184	crusher	cr-1	cr	1		bh-1				False	No
184	dryer	dc-1	dc	1	us-1					False	No
184	dryer	dc-2	dc	1	us-2					False	No
184	tunnel kiln	tk-1	tk	1	us-3					True	No
184	tunnel kiln	tk-2	tk	1	us-3					True	No
184	tunnel kiln	tk-3	tk	1	us-3					True	No
184	tunnel kiln	tk-4	tk	1	us-3					True	No
184	raw material storage	mh-3	mh	1		bh-2				False	No
184	grinding pan	g-1 to g-2	g	2		bh-2				False	No
184	vibrating screens	s-1 to s-8	s	8		bh-2				False	No
184	truck dump	mh-1	mh	1		bh-1				False	No
184	truck dump	mh-2	mh	1		bh-1				False	No
184	pug mills	mw-1 to mw-2	mw	2		bh-3				False	No
184	raw material storage	mh-4 to mh-7	mh	4	fe					False	No
184	intermittent kiln	pk-1	pk	1	us-6					False	No
184	intermittent kiln	pk-2	pk	1	us-4					False	No
184	intermittent kiln	pk-3	pk	1	us-5					False	No
185	manual hand press	fd-1	fd	1		bh-1				False	No
185	dry mixer	md-1	md	1	fe					False	No
185	roller mill (mixer)	mw-1	mw	1	fe					False	No
185	extruder	fw-1	extruder	1	fe					False	No
185	continuous dryer	dc-1	dc	1	fe					False	No
185	storage	mh-1, mh-2	mh	2	fe					False	No
185	periodic kiln	pk-1	pk	1	us-2, us-7					False	No
185	periodic kiln	pk-2	pk	1	us-3, us-8					False	No
185	shuttle kiln	pk-3	pk	1	us-5					False	No
185	shuttle kiln	pk-4	pk	1	us-6					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
185	tunnel kiln	tk-1	tk	1	us-4					False	No
185	periodic dryer	dp-2	dp	1	us-1					False	No
186	crusher	cr-1	cr	1	fe					False	No
186	screens	s-1 to s-2	s	2		bh-1				False	No
186	finish grinders	gr-1 to gr-4	gr	4		bh-2 to bh-3				False	No
186	raw material storage	mh-1 to mh-4	mh	4	fe					False	No
186	grinders	g-1 to g-2	g	2		bh-1				False	No
186	extruders	fw-1 to fw-3	extruder	3	fe					False	No
186	dryers	dc-5 to dc-8	dc	4	us-5 to us-8					False	No
186	dryers	dc-1 to dc-4	dc	4	us-1 to us-4					False	No
186	tunnel kiln	tk-1	tk	1	us-9					True	No
186	tunnel kiln	tk-2	tk	1	us-10					True	No
186	tunnel kiln	tk-3	tk	1	us-11					False	No
186	tunnel kiln	tk-4	tk	1	us-12					False	No
187	grinding	g-1	g	1		bh-2				False	No
187	crusher	cr-1	cr	1		bh-1				False	No
187	box feeder	mh-1	mh	1		bh-1				False	No
187	extruder	fw-1	extruder	1	fe					False	No
187	eirich mixer	mw-1	mw	1		bh-6				False	No
187	grinding finish	gr-1 to gr-3	gr	3		bh-11 to bh-13				False	No
187	storage silos	mh-3, mh-4	mh	2		bh-3				False	No
187	tunnel kiln	tk-1	tk	1	us-6					False	No
187	waste heat dryers	dc-3 to dc-5	dc	3	us-3 to us-5					False	No
187	clay box feeder	mh-19	mh	1	fe					False	No
187	screens	s-1	s	1	fe					False	No
187	dry pan	g-2	g	1	fe					False	No
187	shale box feeder	mh-15	mh	1	fe					False	No
187	extruders	fw-2 to fw-4	extruder	3	fe					False	No
187	weight & volumeteric feeders	mh-18, mh-25	mh	2		bh-9, bh-10				False	No
187	pk blender	md-1	md	1		bh-8				False	No
187	tunnel kiln-idle	tk-2	tk	1	us-7					False	No
187	tunnel kiln	tk-3	tk	1	us-8					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
187	car dryer	dc-1	dc	1	us-1					False	No
187	tray dryer	dc-2	dc	1	fe					False	No
187	roller kiln	rk-1	tk	1	us-2					False	No
187	loading/car storage	mh-22, mh-23	mh	2	fe					False	No
187	glaze line	gz-1	gz	1				sc-1		False	No
187	weigh hoppers	we-1, we-2	we	2		bh-6				False	No
187	extruder feed	mh-25	mh	1		bh-9 to bh-10				False	No
187	storage bin	mh-5	mh	1		bh-5				False	No
187	shale/clay storage	mh-17, mh-20	mh	2	fe					False	No
187	bag dump	misc-1	misc	1		bh-4				False	No
188	fired scrap crusher	cr-3	grog cr	1		bh-3				False	No
188	dry pan	g-1	g	1		bh-1				False	No
188	dry pan	g-2	g	1		bh-2				True	No
188	screen	s-1	s	1		bh-1				False	No
188	screen	s-2	s	1		bh-2				True	No
188	tunnel kiln	tk-2	tk	1	us-8 to us-9					False	No
188	pug mills	mw-1, mw-2	mw	2	fe					False	No
188	extrusion mills	fw-1, fw-2	extruder	2	fe					False	No
188	storage dryers	dp-1 to dp-18	dp	18	us-3 to us-5					False	No
188	tunnel kiln	tk-1	tk	1	us-7 to us-8					False	No
189	dry pan	g-4	g	1		bh-3				False	No
189	dry pan	g-1 to g-2	g	2		bh-1				False	No
189	screen	s-1 to s-2	s	2		bh-1				False	No
189	dry pan	g-3	g	1		bh-2				False	No
189	screen	s-3	s	1		bh-2				False	No
189	mangle dryers	dc-3 to dc-8	dc	6	us-3, us-4					False	No
189	screen	s-4	s	1		bh-3				False	No
189	grinders	gr-1 to gr-6	gr	6		bh-4				False	No
189	fired scrap crusher	cr-5	grog cr	1	us-12					False	No
189	pug mills	mw-1 to mw-2	mw	2		bh-1				False	No
189	pug mill	mw-3	mw	1		bh-2				False	No
189	pug mill	mw-4	mw	1		bh-3				False	No
189	extruders	fw-1 to fw-4	extruder	4	fe					False	No
189	chamber dryer	dc-1 to dc-2	dc	2	us-1 to us-2					False	No

TABLE 11. (continued)

FACID	Source	Equipment ID	Equipment type	Pieces	Uncontrolled	Fabric filter	DIFilter	Scrubber	Other1	Data available	Building control
189	chamber dryer	dp-1	dp	1	us-13					False	No
189	preheaters	misc-4 to misc-7	predryer	4	fe					False	No
189	tunnel kiln	tk-1	tk	1	us-8					False	No
189	tunnel kiln	tk-2	tk	1	us-9					False	No
189	tunnel kiln	tk-3	tk	1	us-10					False	No
189	tunnel kiln	tk-4	tk	1	us-11					False	No

TABLE 12. EMISSION POINTS

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
1	US-2	No	uncontrolled stack	tk-1	face brick	35	7.5	3.09	1US-2
1	DLS-1	No	dry lime scrubber	tk-2	face brick	60	10.6	3.67	1DLS-1
3	US-2	No	uncontrolled stack	tk-1	brick	14	12.6	4.01	3US-2
4	FE-6 TO FE-8	No	uncontrolled stack	misc-1 - misc-3	brick	25	7.1		4FE-6 - FE-8
4	FE-9 TO FE-14	No	fugitive emissions	misc-4 - misc-9	brick	0	7.1		4FE-9 - FE-14
4	US-2	No	uncontrolled stack	tk-1	brick	25	12.6	4.01	4US-2
5	US-3	No	uncontrolled stack	dc-2	brick	25	19.6	5.00	5US-3
5	US-5	No	uncontrolled stack	tk-2	brick	25	12.6	4.01	5US-5
5	BHI-1	No	baghouse	g-1, s-1	brick				5BHI-1
5	US-2	No	uncontrolled stack	dc-1	brick	25	19.6	5.00	5US-2
5	US-1	No	uncontrolled stack	misc-2	brick	12	4.4		5US-1
5	US-4	No	uncontrolled stack	tk-1	brick	25	12.6	4.01	5US-4
6	US-1 TO US-2	No	uncontrolled stack	misc-3	brick	32	8.7		6US-1 TO US-2
6	US-3	No	uncontrolled stack	dc-1	brick	32	4.9	2.50	6US-3
6	US-5	No	uncontrolled stack	dc-3	brick	32	4.9	2.50	6US-5
6	US-7	No	uncontrolled stack	tk-1	brick	32	8.7	3.33	6US-7
6	US-6	No	uncontrolled stack	dc-4	brick	32	4.9	2.50	6US-6
6	US-4	No	uncontrolled stack	dc-2	brick	32	4.9	2.50	6US-4
6	US-8	No	uncontrolled stack	tk-2	brick	32	8.7	3.33	6US-8
7	BHI-1	No	baghouse	cta-1	texturing and sand coatings				7BHI-1
7	US-1	No	uncontrolled stack	misc-2	brick				7US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
7	US-2 TO US-7	No	uncontrolled stack	dc-1 to dc-6	brick				7US-2 TO US-7
7	US-8	No	uncontrolled stack	tk-1	brick	30	9	3.39	7US-8
7	US-9	No	uncontrolled stack	tk-2	brick	30			7US-9
8	US-3	No	uncontrolled stack	tk-1	brick	32	4.9	2.50	8US-3
8	US-2	No	uncontrolled stack	dc-2	brick	34	10.3	3.62	8US-2
8	BH-4	No	baghouse	mw-2,fw-2,misc-2	clay,shale	4.3	3.2		8BH-4
8	BH-2	No	baghouse	g-2,s-1 to s-6	clay, shale	15	7.8	3.15	8BH-2
8	BH-1	No	baghouse	g-1,st-1,fw-1,mh-1,mw-1	clay, shale	25	6.6	2.90	8BH-1
8	BH-3	No	baghouse	mw-3	clay, shale	21.6	7.6		8BH-3
8	BH-5	No	baghouse	fw-3	clay, shale	43.7	0.91		8BH-5
8	BHI-1	No	baghouse	dr-1	sand				8BHI-1
8	US-1	No	uncontrolled stack	dc-1	brick	23.4	4.6	2.42	8US-1
9	DA-1	No	dry limestone adsorber	tk-1 and tk-2	brick				9DA-1
10	US-6	No	uncontrolled stack	tk-2	brick	30	8.7	3.33	10US-6
10	US-1	No	uncontrolled stack	dc-1	brick	30	15.9	4.50	10US-1
10	US-5	No	uncontrolled stack	tk-1	brick	30	8.7	3.33	10US-5
10	US-4	No	uncontrolled stack	dc-2	brick	30	15.9	4.50	10US-4
10	US-3	No	uncontrolled stack	dc-2	brick	30	15.9	4.50	10US-3
10	US-2	No	uncontrolled stack	dc-1	brick	30	15.9	4.50	10US-2
11	US-1	No	uncontrolled stack	dc-1	brick	29.5	42.2	7.33	11US-1
11	US-4	No	uncontrolled stack	md-1	sand colorants	17.5	0.35		11US-4
11	US-2	No	uncontrolled stack	misc-2	brick	30.5	12.6		11US-2

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
11	US-3	No	uncontrolled stack	tk-1	brick	41.5	21.01	5.17	11US-3
12	US-2, US-3	No	uncontrolled stack	misc-6	brick	28	3.1		12US-2, US-3
12	US-8	No	uncontrolled stack	tk-1	brick	31.5	8.3	3.25	12US-8
12	US-9	No	uncontrolled stack	tk-2	brick	27	7	2.99	12US-9
12	US-1	No	uncontrolled stack	dr-1	sand	23	0.3	0.62	12US-1
12	US-6, US-7	No	uncontrolled stack	dc-1 to dc-4	brick	31	7	2.99	12US-6, US-7
12	US-4, US-5	No	uncontrolled stack	misc-6	brick	35	3.1		12US-4, US-5
13	DA-1	No	dry scrubber	tk-2	brick	97	27.8	5.95	13DA-1A
13	US-3	No	uncontrolled stack	dc-3	brick	36.5	7.3	3.05	13US-3
13	US-4	No	uncontrolled stack	dc-4	brick	36.5	7.3	3.05	13US-4
13	US-1	No	uncontrolled stack	dc-1	brick	36.5	7.3	3.05	13US-1
13	US-2	No	uncontrolled stack	dc-2	brick	36.5	7.3	3.05	13US-2
13	US-5	No	uncontrolled stack	rd-1	brick	25	1.4		13US-5
13	DA-1	No	dry scrubber	tk-1	brick	97	27.8	5.95	13DA-1
14	US-1	No	uncontrolled stack	tk-1	brick	40	10.6	3.67	14US-1
14	US-2	No	uncontrolled stack	dc-1	brick	40	8.8	3.35	14US-2
15	US-1	No	uncontrolled stack	dc-1	brick	30	3.1	1.99	15US-1
15	US-2	No	uncontrolled stack	tk-1	brick	30	3.1	1.99	15US-2
16	US-2	No	uncontrolled stack	dc-1	brick	30	6.86	2.96	16US-2
16	US-3	No	uncontrolled stack	tk-1	brick	31.5	9.07	3.40	16US-3
16	US-1	No	uncontrolled stack	dc-1	brick	30	6.86	2.96	16US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
17	US-3	No	uncontrolled stack	tk-1	brick	48.5	4.9	2.50	17US-3
17	US-2	No	uncontrolled stack	dc-1	brick	43	10.3	3.62	17US-2
19	US-6	No	uncontrolled stack	tk-2	brick	42			19US-6
19	US-5	No	uncontrolled stack	tk-1	brick	42			19US-5
19	US-7 TO US-8	No	uncontrolled stack	tk-3 to tk-4	brick	52			19US-7 TO US-8
20	US-1	No	uncontrolled stack	tk-1	structural brick	91.5	12.25	3.95	20US-1
20	US-3 TO US-5	No	uncontrolled stack	dc-1	structural brick	29.5	2.19	1.67	20US-3 TO US-5
20	US-11 TO US-18	No	uncontrolled stack	dc-2	structural brick	22.1	3.46	2.10	20US-11 TO US-18
20	US-2	No	uncontrolled stack	tk-1	structural brick	31.5	12.25	3.95	20US-2
21	US-1 TO US-6	No	uncontrolled stack	pk-1 to pk-6	tile and brick	40	7	2.99	21US-1 TO US-6
22	US-1	No	uncontrolled stack	tk-1	brick	56			22US-1
22	US-2	No	uncontrolled stack	tk-2	brick	56			22US-2
23	US-4	No	uncontrolled stack	pk-1	brick	30	5.3	2.60	23US-4
23	US-11	No	uncontrolled stack	pk-9	brick	30	10.2	3.60	23US-11
23	US-8	No	uncontrolled stack	pk-6	brick	30	3.8	2.20	23US-8
23	US-12	No	uncontrolled stack	misc-1	glazed brick and tile	35	4.2		23US-12
23	US-10	No	uncontrolled stack	pk-8	brick	30	5.3	2.60	23US-10
23	BH-1	No	baghouse	cta-1	tile	14	0.5		23BH-1
23	FE-8	No		g-2	brick and tile	7	0.1	0.36	23FE-8
23	US-1	No	uncontrolled stack	tk-1	brick and tile	40	7	2.99	23US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
23	US-2	No	uncontrolled stack	tk-2	brick and tile	40	7	2.99	23US-2
23	US-7	No	uncontrolled stack	pk-4 to pk-5	brick	30	12.6	4.01	23US-7
23	US-3	No	uncontrolled stack	tk-3	brick and tile	40	7	2.99	23US-3
23	US-5	No	uncontrolled stack	pk-2	brick	30	5.3	2.60	23US-5
23	US-6	No	uncontrolled stack	pk-3	brick	30	5.3	2.60	23US-6
23	BH-2	No	baghouse	cta-2	brick	30	0.5		23BH-2
23	FE-7	No		cr-1	brick and tile				23FE-7
23	US-9	No	uncontrolled stack	pk-7	brick	30	3.8	2.20	23US-9
23	BH-3	No	baghouse	gz-1	brick and tile	25	1.1		23BH-3
24	US-4	No	uncontrolled stack	tk-2	tile, coping	30	11	3.74	24US-4
24	US-2	No	uncontrolled stack	tk-1	brick pavers	35	4.9	2.50	24US-2
24	US-1	No	uncontrolled stack	dc-1	brick pavers	25	3	1.95	24US-1
24	BH-1	No	fabric filter	g-2, g-3, s-3	clay, scrap brick	7	3.6	2.14	24BH-1
24	US-3	No	uncontrolled stack	dc-2	tile, coping	30	4.3	2.34	24US-3
25	US-6	No	uncontrolled stack	tk-5	brick				25US-6
25	US-8	No	uncontrolled stack	tk-3					25US-8
25	US-9	No	uncontrolled stack	tk-2					25US-9
25	US-10	No	uncontrolled stack	tk-1					25US-10
25	US-7	No	uncontrolled stack	tk-4					25US-7
26	BH-1	No	baghouse	cta-1	brick				26BH-1
26	US-2	No	uncontrolled stack	tk-1	brick				26US-2
27	BH-1	No	fabric filter	cta-1, md-1	brick				27BH-1
27	US-1	No	uncontrolled stack	tk-1	brick				27US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
28	US-1	Yes	uncontrolled stack	tk-1	brick				28US-1
28	BH-1	No	baghouse	cta-2	brick				28BH-1
29	US-1	No	uncontrolled stack	tk-1	brick	7			29US-1
30	US-2	No	uncontrolled stack	tk-2	brick	14			30US-2
30	US-1	No	uncontrolled stack	tk-1	brick	27			30US-1
31	US-6	No	uncontrolled	tk-2	brick				31US-6
31	DA-1	No	dry limestone adsorber	tk-4	brick				31DA-1A
31	DA-1	No	dry limestone adsorber	tk-3	brick				31DA-1
31	US-5	No	uncontrolled	tk-1	brick				31US-5
32	US-10	No	uncontrolled	tk-2	brick				32US-10
32	US-11	No	uncontrolled	tk-3	brick				32US-11
32	US-9	No	uncontrolled stack	tk-1	brick				32US-9
33	US-1 TO US-6	No	uncontrolled stack	pk-1 to pk-11	brick	40	25	5.64	33US-1 TO US-6
34	US-6	No	uncontrolled stack	tk-1	face brick	35	3.5	2.11	34US-6
34	US-8	No	uncontrolled stack	tk-2	face brick	35	3	1.95	34US-8
34	US-5	No	uncontrolled stack	tk-1	face brick	35	3.5	2.11	34US-5
34	US-7	No	uncontrolled stack	tk-2	face brick	35	3	1.95	34US-7
35	US-1	No	uncontrolled stack	tk-1	face brick	36	7.33	3.06	35US-1
35	US-2	No	uncontrolled stack	tk-2	face brick	36	8.37	3.26	35US-2
36	US-5	No	uncontrolled stack	tk-1	brick	45.5	9	3.39	36US-5
39	US-3	No	uncontrolled stack	tk-1	brick	26	6.3	2.83	39US-3
39	US-2	No	uncontrolled stack	dc-1	brick	27	5.6	2.67	39US-2
39	US-1	No	uncontrolled stack	dc-1	brick	27	5.6	2.67	39US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
41	US-1	No	uncontrolled stack	dc-1	brick				41US-1
41	US-3	No	uncontrolled stack	tk-1	brick	40	11.67	3.85	41US-3
41	US-2	No	uncontrolled stack	dc-2	brick				41US-2
42	US-1	No	uncontrolled stack	dc-1	brick	29	20	5.05	42US-1
42	US-2	No	uncontrolled stack	tk-1	brick	32	12	3.91	42US-2
43	US-1	No	uncontrolled stack	dc-1	face brick	13.5	19.6	5.00	43US-1
43	US-4	No	uncontrolled stack	dr-1	sand	4.6	3.14	2.00	43US-4
43	US-2,DS-1	No	uncontrolled stack	tk-1	face brick	30.5	13.64	4.17	43US-2,DS-1
44	US-1	No	uncontrolled stack	tk-1	brick	48	4	2.26	44US-1
45	BHI-1	No	dust collector	cta-1	brick		0.35		45BHI-1
45	US-3	No	uncontrolled stack	tk-2	brick	29	4	2.26	45US-3
45	US-2	No	uncontrolled stack	tk-1	brick	22	4	2.26	45US-2
46	US-1,DS-1	No	uncontrolled stack	tk-1	brick	46.5	10.5	3.66	46US-1,DS-1
47	US-3	No	uncontrolled stack	tk-1	brick	30	4.9	2.50	47US-3
47	US-4	No	uncontrolled stack	tk-2	brick	30	4	2.26	47US-4
48	US-2	No	uncontrolled stack	tk-1	structural brick	28	7.07	3.00	48US-2
49	US-2	No	uncontrolled stack	tk-1	structural brick	57.5			49US-2
49	US-4	No	uncontrolled stack	tk-2	structural brick	57.5			49US-4
51	US-1	No	uncontrolled stack	misc-2	brick	37.5	9		51US-1
51	CY-1	No	cyclone	dr-1	sand	25	0.34	0.66	51CY-1
51	US-10	No	uncontrolled stack	dr-2	sand	7	1.1	1.18	51US-10
51	US-4	No	uncontrolled stack	tk-1	brick	28.5	10.6	3.67	51US-4
51	US-5	No	uncontrolled stack	dp-1	brick	25.3	18	4.79	51US-5

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
51	US-6	No	uncontrolled stack	misc-8	brick	25.5	3.14		51US-6
51	US-7	No	uncontrolled stack	dc-2	brick	32.75	9.4	3.46	51US-7
51	US-2	No	uncontrolled stack	dc-1	brick	37.5	74	9.71	51US-2
51	BH-1	No	baghouse dust collector	misc-3, misc-9, fw-1,cta-1,misc-5	sand coatings	17	4.26		51BH-1
51	BHI-1	No	cartridge dust collector	misc-4,misc-10	sand coatings				51BHI-1
51	BH-3	No	baghouse dust collector	md-1	sand coatings	9.6	1.2		51BH-3
51	US-9	No	uncontrolled stack	tk-2	brick	37.5	10.03	3.57	51US-9
51	US-3	No	uncontrolled stack	misc-6	brick	28	4.9		51US-3
51	US-8	No	uncontrolled stack	dc-3	brick	32.75	9.4	3.46	51US-8
52	BH-2	No	baghouse	tk-2	face brick	44	4.3	2.34	52BH-2
52	BH-1	No	baghouse	tk-1	face brick	44	4.3	2.34	52BH-1
52	US-2	No	uncontrolled stack	dc-2	face brick		19.64		52US-2
53	BH-1	No	baghouse	tk-1	face brick	44	5.2	2.57	53BH-1
54	BH-1	No	baghouse	gs-1	brick				54BH-1
54	US-2	No	uncontrolled stack	tk-1	face brick	40	9.4	3.46	54US-2
54	US-4	No	uncontrolled stack	tk-2	face brick	85	1.6	1.43	54US-4
55	US-2	No	uncontrolled stack	tk-2	face brick	35	13.2	4.10	55US-2
55	US-1	No	uncontrolled stack	tk-1	face brick	35	10.2	3.60	55US-1
56	US-1	No	uncontrolled stack	tk-1	face brick	40	8.7	3.33	56US-1
57	BH-1	No	baghouse	gs-1	face brick	12	6.75	2.93	57BH-1
57	US-2	No	uncontrolled stack	dc-2	brick	38	7	2.99	57US-2
57	US-1	No	uncontrolled stack	dc-1	brick	30	4.9	2.50	57US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
57	US-4	No	uncontrolled stack	tk-2	face brick	44	7.1	3.01	57US-4
57	US-3	No	uncontrolled stack	tk-1	face brick	27	4.2	2.31	57US-3
57	BH-3	No	baghouse	cc-1	coal	20	1.19		57BH-3
58	US-2	No	uncontrolled stack	dc-2	brick	56	11.1	3.76	58US-2
58	BH-2	No	baghouse	cc-1, mh-3	coal	28	2.6		58BH-2
58	BH-3	No	baghouse	tk-2	face brick	58	7.1	3.01	58BH-3
58	US-1	No	uncontrolled stack	dc-1	brick	30	9	3.39	58US-1
58	US-3	No	uncontrolled stack	tk-1	face brick	32	5.7	2.69	58US-3
58	BH-1	No	baghouse	gs-1	face brick	15	7.6	3.11	58BH-1
59	US-2	No	uncontrolled stack	tk-2	face brick	35	7.1	3.01	59US-2
59	BH-1	No	baghouse	gs-1	face brick	8	6.6	2.90	59BH-1
59	US-1	No	uncontrolled stack	tk-1	face brick	24	4	2.26	59US-1
60	BH-2	No	baghouse	we-2,mw-2,mw-3,fw-2,fw-3,cta-2	brick	20	2.56		60BH-2
60	US-6	No	uncontrolled stack	tk-3	face brick	36	7.1	3.01	60US-6
60	BH-1	No	baghouse	gs-1	brick	20	5.29	2.60	60BH-1
60	BH-3	No	baghouse	cc-1, mh-2	coal	65	2.08		60BH-3
60	US-4	No	uncontrolled stack	tk-1	face brick	30	6.5	2.88	60US-4
60	US-5	No	uncontrolled stack	tk-2	face brick	30	6.5	2.88	60US-5
61	BH-1	No	baghouse	we-1,mw-1,fw-1,cta-1	brick	13	2.72		61BH-1
61	BH-2	No	baghouse	we-2,mw-2,fw-2, cta-2	brick	18	1.69		61BH-2
61	US-4	No	uncontrolled stack	tk-1	face brick	48	7.1	3.01	61US-4
61	US-5	No	uncontrolled stack	tk-2	face brick	48	7.1	3.01	61US-5
61	US-6	No	uncontrolled stack	tk-3	face brick	35	19.6	5.00	61US-6

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
62	US-3	No	uncontrolled stack	tk-1	face brick	35	19.6	5.00	62US-3
62	US-4	No	uncontrolled stack	tk-2	face brick	35	19.6	5.00	62US-4
63	US-2	No	uncontrolled stack	tk-1	brick				63US-2
63	US-3	No	uncontrolled stack	tk-2	brick				63US-3
65	US-3	No	uncontrolled stack	tk-3	brick	51	9.1	3.40	65US-3
65	US-2	No	uncontrolled stack	tk-2	brick	51	9.1	3.40	65US-2
65	US-1	No	uncontrolled stack	tk-1	brick	51	9.1	3.40	65US-1
66	US-2	No	uncontrolled stack	tk-1	brick	20.6	9.17	3.42	66US-2
67	US-3	No	uncontrolled stack	tk-1	brick				67US-3
68	US-2	No	uncontrolled stack	tk-1	brick	37	16	4.51	68US-2
69	US-4	No	uncontrolled stack	TK-2	brick	19	6.7	2.92	69US-4
69	US-3	No	uncontrolled stack	tk-1	brick	19	6.6	2.90	69US-3
70	DIFF-2	No	dry injection fabric filter	tk-2	face brick				70DIFF-2
70	DIFF-1	No	dry injection fabric filter	tk-1	face brick				70DIFF-1
71	US-2	No	uncontrolled stack	tk-1	brick	13	2.64	1.83	71US-2
71	US-1	No	uncontrolled stack	dc-1	brick	14	7.07	3.00	71US-1
71	US-3	No	uncontrolled stack	tk-1	brick	15	3.47	2.10	71US-3
72	US-8	No	uncontrolled stack	misc-3	brick	12	12.6		72US-8
72	US-18	No	uncontrolled stack	dc-2	brick	39	9	3.39	72US-18
72	BH-2	No	baghouse	cta-1, s-2, fw-1, mw-1	brick forming				72BH-2
72	BH-3	No	baghouse	fw-2, cta-2, mw-2	brick forming				72BH-3

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
72	BH-4	No	baghouse	misc-5	kiln cleaning system				72BH-4
72	BH-5	No	baghouse	dr-1	sand				72BH-5
72	BH-1	No	baghouse	md-1	sand				72BH-1
72	US-1,US-2,DS-1	No	uncontrolled stacks	tk-1	brick	32	18	4.79	72US-1,US-2, DS-1
72	US-10	No	uncontrolled stack	misc-4	brick	24	4.6		72US-10
72	US-11	No	uncontrolled stack	misc-4	brick	24	3.9		72US-11
72	US-12	No	uncontrolled stack	misc-4	brick	28	4.6		72US-12
72	US-13	No	uncontrolled stack	misc-4	brick	28	4.6		72US-13
72	US-14	No	uncontrolled stack	misc-4	brick	16	3.5		72US-14
72	US-15	No	uncontrolled stack	dc-1	brick	28	20	5.05	72US-15
72	US-7	No	uncontrolled stack	misc-3	brick	28	26		72US-7
72	US-20	No	uncontrolled stack	dc-4	brick	32	9	3.39	72US-20
72	US-21	No	uncontrolled stack	dc-4	brick	36	14.1	4.24	72US-21
72	US-3, US-4,DS-2	No	uncontrolled stack	tk-2	brick	25	18.49	4.85	72US-3,US-4, DS-2
72	US-5	No	uncontrolled stack	misc-3	brick	27	4.1		72US-5
72	US-6	No	uncontrolled stack	misc-3	brick	27	7.9		72US-6
72	US-9	No	uncontrolled stack	misc-4	brick	22	7.8		72US-9
73	CY-1	No	cyclone	md-1	texturing and sand coatings				73CY-1
73	US-1	No	uncontrolled stack	misc-1	brick				73US-1
73	US-2	No	uncontrolled stack	dc-1	brick				73US-2
73	US-3	No	uncontrolled stack	dc-2	brick				73US-3

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
73	US-4	No	uncontrolled stack	tk-1	brick	45	10.8	3.71	73US-4
73	US-5	No	uncontroled stack	tk-2	brick	45	10.8	3.71	73US-5
74	US-1	No	uncontrolled stack	dc-1	green brick				74US-1
74	US-2	No	uncontrolled stack	tk-1	brick	40			74US-2
75	US-2	No	uncontrolled stack	tk-1	brick	20	7.1	3.01	75US-2
76	US-1	No	uncontrolled stack	tk-1	brick				76US-1
76	US-2	No	uncontrolled stack	dc-1	brick				76US-2
77	US-5	No	uncontrolled stack	tk-1	face brick				77US-5
78	US-4	No	uncontrolled stack	tk-2	brick		9.62		78US-4
78	US-1	No	uncontrolled stack	dc-1	brick		28.3		78US-1
78	US-2	No	uncontrolled stack	dc-2	brick		28.3		78US-2
78	US-3	No	uncontrolled stack	tk-1	brick		9.62		78US-3
79	US-1	No	uncontrolled stack	tk-1	brick	34.5	4	2.26	79US-1
80	US-1	No	uncontrolled stack	tk-1	brick	24	2.9	1.92	80US-1
80	US-2	No	uncontrolled stack	tk-2	brick	24	2.9	1.92	80US-2
80	US-3	No	uncontrolled stack	tk-3	brick	24	2.9	1.92	80US-3
81	US-5	No	uncontrolled stack	dc-5	brick	40	7.95	3.18	81US-5
81	US-6	No	uncontrolled stack	tk-1	brick	40	7.95	3.18	81US-6
81	BH-1	No	baghouse	cta-3	brick, sand, coatings	30	1		81BH-1
81	US-1	No	uncontrolled stack	dc-1	brick	33	7.95	3.18	81US-1
81	US-2	No	uncontrolled stack	dc-2	brick	33	7.95	3.18	81US-2
81	US-3	No	uncontrolled stack	dc-3	brick	33	7.95	3.18	81US-3
81	US-4	No	uncontrolled stack	dc-4	brick	33	7.95	3.18	81US-4

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
81	US-9	No	uncontrolled stack	tk-6	brick	38	7.95	3.18	81US-9
81	US-7	No	uncontrolled stack	dc-6 to dc-9	brick	33	7.95	3.18	81US-7
81	US-8	No	uncontrolled stack	tk-5	brick	38	7.95	3.18	81US-8
82	US-1	No	uncontrolled stack	misc-3	brick	24.33	5.8		82US-1
82	US-2	No	uncontrolled stack	dc-1, dc-2	brick	35	10.1	3.59	82US-2
82	US-3	No	uncontrolled stack	tk-1	brick	40	10.17	3.60	82US-3
83	US-2	No	uncontrolled stack	tk-1	brick				83US-2
84	US-1	No	uncontrolled stack	dc-1	brick	35	9	3.39	84US-1
84	US-2	No	uncontrolled stack	tk-1	brick	35	9	3.39	84US-2
85	BH-3	No	baghouse	cc-1, mh-3	coal	35	0.35		85BH-3
85	BH-1	No	baghouse	cta-1, fw-1, mw-1, we-1	face brick	24	1.13		85BH-1
85	BH-2	No	baghouse	mh-2	face brick	40	0.83		85BH-2
85	US-1	No	uncontrolled stack	dc-1	brick		12.25		85US-1
85	CY-1	No	multiclone	tk-1	face brick	50	9.8	3.53	85CY-1
86	US-5	No	uncontrolled stack	misc-5	flue pipe	8	12.6		86US-5
86	US-2	No	uncontrolled stack	dc-1	brick	21	10.5	3.66	86US-2
86	BH-1	No	fabric filter	s-1, s-2, cr-1, cr-2, mh-1	brick, pipe	16	3.14	2.00	86BH-1
86	BH-2	No	baghouse	mw-1, mw-2	brick and pipe	15	0.35		86BH-2
86	US-1	No	uncontrolled stack	misc-4	brick	10	3.14		86US-1
86	US-4	No	uncontrolled stack	dp-1	flue pipe	8	12.6	4.01	86US-4
86	US-6	No	uncontrolled stack	pk-1	flue pipe	13.5	38	6.96	86US-6
86	US-3	No	uncontrolled stack	tk-1	brick	26	5.6	2.67	86US-3

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
88	US-2	No	uncontrolled stack	tk-1	brick		7.54		88US-2
89	US-5	No	uncontrolled stack	tk-1	brick	30	5.78	2.71	89US-5
90	US-3	No	uncontrolled stack	tk-1	face brick	33	16	4.51	90US-3
90	US-4	No	uncontrolled stack	tk-2	face brick	33	16	4.51	90US-4
90	US-1	No	uncontrolled stack	dc-1	face brick	33	16	4.51	90US-1
90	US-2	No	uncontrolled stack	dc-2	face brick	33	16	4.51	90US-2
91	US-3	No	uncontrolled stack	pk-5, pk-6	brick	22	12.6	4.01	91US-3
91	US-4	No	uncontrolled stack	pk-7, pk-8	brick	22	12.6	4.01	91US-4
91	US-1	No	uncontrolled stack	pk-1, pk-2	brick	22	12.6	4.01	91US-1
91	US-2	No	uncontrolled stack	pk-3, pk-4	brick	22	12.6	4.01	91US-2
100	US-3	No	uncontrolled stack	dc-2	brick	65	8.81	3.35	100US-3
100	BH-1	No	bagfilter	cta-1	brick				100BH-1
100	US-2	No	uncontrolled stack	dc-1	brick	65	8.81	3.35	100US-2
100	DS-1	No	uncontrolled stack	tk-1	brick	45	5.03	2.53	100DS-1
100	DS-1	No	uncontrolled stack	tk-2	brick	45	5.03	2.53	100DS-1A
101	US-4	No	uncontrolled stack	dc-3, dc-4	brick	24	5.56	2.66	101US-4
101	DS-1	No	uncontrolled stack	tk-2	brick	65	4.91	2.50	101DS-1
101	BH-2	No	bag filter	cta-1	brick	20	0.785		101BH-2
101	BH-1	No	bag filter	cta-2	brick	20	0.785		101BH-1
101	US-5	No	uncontrolled stack	tk-1	brick	30	12.6	4.01	101US-5
101	US-1, US-2	No	uncontrolled stack	dc-1, dc-2	brick	35	19.6	5.00	101US-1, US-2
101	DS-1	No	uncontrolled stack	tk-3	brick	65	4.91	2.50	101DS-1A
102	BH-1	No	bag filter	cta-1	brick				102BH-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
102	US-2	No	uncontrolled stack	dc-1	brick				102US-2
102	DS-1	No	uncontrolled stack	tk-1	brick	66			102DS-1
102	DS-1	No	uncontrolled stack	tk-2	brick	66			102DS-1A
103	DS-1	No	uncontrolled stack	tk-6	brick	60	4.01	2.26	103DS-1C
103	BH-2	No	bag filter	cta-2	brick	20	0.785		103BH-2
103	DS-2	No	uncontrolled stack	tk-2	brick	50	4.91	2.50	103DS-2A
103	BH-1	No	bag filter	cta-1	brick	20	0.785		103BH-1
103	DS-2	No	uncontrolled stack	tk-1	brick	50	4.91	2.50	103DS-2
103	DS-1	No	uncontrolled stack	tk-3	brick	60	4.01	2.26	103DS-1
103	DS-1	No	uncontrolled stack	tk-4	brick	60	4.01	2.26	103DS-1A
103	DS-1	No	uncontrolled stack	tk-5	brick	60	4.01	2.26	103DS-1B
103	US-3	No	uncontrolled stack	ds-1, tk-3 to -6	brick	60	4.01	2.26	103US-3
104	US-2	No	uncontrolled stack	dc-1	brick	20	7.1	3.01	104US-2
104	US-1	No	uncontrolled stack	fd-1	steam	25	0.4		104US-1
104	US-4	No	uncontrolled process enclosure	s-1, cr-1	clay				104US-4
104	US-3	No	uncontrolled stack	tk-1	brick	25	10.2	3.60	104US-3
105	US-6	No	uncontrolled stack	tk-1	clay pipe and flue lining	35	4.9	2.50	105US-6
105	US-1 TO US-5	No	uncontrolled stack	pk-1 to pk-5	clay pipe and flue lining	20	19.6	5.00	105US-1 TO US-5
111	BHI-4	No	baghouse	dr-1	brick				111BHI-4
111	US-7	No	uncontrolled stack	misc-1	brick	47	8.5		111US-7
111	BHI-2	No	baghouse	mw-1, fw-1	brick				111BHI-2

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
111	BHI-3	No	baghouse	misc-2	brick				111BHI-3
111	US-1 TO US-6	No	uncontrolled stack (each)	dc-1	brick	42	6.7	2.92	111US-1 TO US-6
111	US-8	No	uncontrolled stack	tk-1	brick	60	13.44	4.14	111US-8
111	BHI-1	No	baghouse	cr-1,g-1,s-1,mh-1	brick				111BHI-1
112	US-3	No	uncontrolled stack	dc-1	brick	40	20	5.05	112US-3
112	US-1	No	uncontrolled stack	pk-1 to pk-10	brick	110	34.84	6.66	112US-1
112	US-17	No	uncontrolled stack	misc-1	brick	64	3.14		112US-17
112	US-2	No	uncontrolled stack	pk-11 to pk-20	brick	110	34.84	6.66	112US-2
112	US-19	No	uncontrolled stack	gz-1	brick	26	1.77		112US-19
112	US-18	No	uncontrolled stack	misc-4	brick	28	4	2.26	112US-18
112	US-20	No	uncontrolled stack	gz-2	brick	24	0.79		112US-20
112	BHI-7	No	baghouse	misc-2	brick				112BHI-7
112	US-14	No	uncontrolled stack	dc-4	brick	41	17.72	4.75	112US-14
112	US-6	No	uncontrolled stack	dc-2	brick	72	19.63	5.00	112US-6
112	US-7	No	uncontrolled stack	dc-3	brick	74	19.63	5.00	112US-7
112	US-8	No	uncontrolled stack	tk-1	brick	77	14.06	4.23	112US-8
112	US-9	No	uncontrolled stack	tk-2 to tk-3	brick	78	24.17	5.55	112US-9
112	US-16	No	uncontrolled stack	dc-6	brick	27	17.72	4.75	112US-16
112	US-13	No	uncontrolled stack	tk-6	brick	28	32.11	6.39	112US-13
112	US-12	No	uncontrolled stack	tk-5	brick	47	15.11	4.39	112US-12
112	US-11	No	uncontrolled stack	tk-4	brick	47	15.11	4.39	112US-11
112	US-10	No	uncontrolled stack	misc-4	brick	28	4	2.26	112US-10
112	BHI-10	No	baghouse	cr-3, g-3, s-3	brick				112BHI-10

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
112	BHI-9	No	baghouse	cr-3,g-3,s-3	brick				112BHI-9
112	BHI-8	No	baghouse	misc-3	brick				112BHI-8
112	BHI-1	No	baghouse	cr-2,g-2,s-2,mh-2	brick				112BHI-1
112	BHI-5	No	baghouse	cr-2,g-2,s-2,mh-2	brick				112BHI-5
112	BHI-4	No	baghouse	cr-2,g-2,s-2,mh-2	brick				112BHI-4
112	BHI-3	No	baghouse	we-2,mw-2,fw-2, cta-2	brick				112BHI-3
112	BHI-2	No	baghouse	cr-2, g-2, s-2, mh-2	brick				112BHI-2
112	BHI-11	No	baghouse	mh-3, we-3, mw-3, fw-3	brick				112BHI-11
112	US-4	No	uncontrolled stack	dc-1	brick	40			112US-4
112	BH-6	No	baghouse	dr-1	brick	52	2.36	1.73	112BH-6
112	US-15	No	uncontrolled stack	dc-5	brick	36	17.72	4.75	112US-15
113	US-1	No	uncontrolled stack	tk-1	brick	40	4.91	2.50	113US-1
114	US-1	No	uncontrolled stack	tk-1	brick	28	6.3	2.83	114US-1
116	US-3	No	uncontrolled stack	tk-1	brick	20	8	3.19	116US-3
118	US-5	No	uncontrolled stack	tk-2	brick	35	25	5.64	118US-5
118	US-4	No	uncontrolled stack	tk-1	brick	35	4.9	2.50	118US-4
118	US-6	No	uncontrolled stack	tk-3	brick	35	9	3.39	118US-6
120	US-2	No	uncontrolled stack	dc-1	brick				120US-2
120	US-1	No	uncontrolled stack	tk-1	brick				120US-1
121	US-1	No	uncontrolled stack	tk-1	brick				121US-1
121	US-2	No	uncontrolled stack	dc-1	brick				121US-2
122	US-5	No	uncontrolled stack	tk-1	brick	32	20.25	5.08	122US-5

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
122	US-1	No	uncontrolled stack	dr-1	clay	10	3.1	1.99	122US-1
122	US-2	No	uncontrolled stack	dr-2	sand	20	0.4	0.71	122US-2
122	US-3	No	uncontrolled stack	dc-1	brick	30	12.5	3.99	122US-3
122	US-4	No	uncontrolled stack	dc-1	brick	1	4	2.26	122US-4
123	US-6	No	uncontrolled stack	pk-15	roof tile				123US-6
123	BHI-2	No	baghouse	mh-2-3,g-1-3,s-1-2	brick terra cotta pipe rooftile				123BHI-2
123	US-3	No	uncontrolled stack	pk-7 to pk-9	sewer pipe				123US-3
123	US-4	No	uncontrolled stack	pk-10 to pk-13	sewer pipe				123US-4
123	US-1	No	uncontrolled stack	pk-1 to pk-3	sewer pipe				123US-1
123	US-5	No	uncontrolled tack	tk-1	sewer pipe				123US-5
123	BH-1	No	baghouse	mh-2 -3, g-1-3, s-1-2	brick terra cotta pipe, tooftile				123BH-1
123	US-8	No	uncontrolled stack	tk-2	terra cotta				123US-8
123	SC-1	No	scrubber	gz-1	roof tile terra cotta	0	2.2		123SC-1
123	US-2	No	uncontrolled stack	pk-4 to pk-6	sewer pipe				123US-2
123	BH-4	No	baghouse	gr-1 to gr-2	brick, terra cotta, pipe, rooftile				123BH-4
123	US-7	No	uncontrolled stack	pk-14	terra cotta				123US-7
126	US-1 TO US-6	No	uncontrolled stack	pk-1 to pk-6	brick				126US-1 TO US-6
127	US-6	No	uncontrolled stack	pk-6	brick				127US-6
127	US-7	No	uncontrolled stack	dc-1	brick				127US-7
127	US-8	No	uncontrolled stack	dc-1	brick				127US-8
128	DA-1	No	packed bed tower	tk-1	brick	72	12	3.91	128DA-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
128	US-1	No	uncontrolled stack	dc-1	brick	65	19.6	5.00	128US-1
129	US-2	No	uncontrolled stack	dc-1	brick				129US-2
129	US-4	No	uncontrolled stack	tk-1	brick				129US-4
130	US-3	No	uncontrolled stack	tk-1	brick	31	4.69	2.44	130US-3
130	US-4	No	uncontrolled stack	tk-2	brick	18	11.08	3.76	130US-4
131	US-6	No	uncontrolled stack	tk-1	brick	31	8.3	3.25	131US-6
131	US-1	No	uncontrolled stack	md-1	sand recycled brick coatings	15	9.6		131US-1
131	US-3	No	uncontrolled stack	misc-2	brick	28	3.1		131US-3
131	US-5	No	uncontrolled stack	dc-3, dc-4	brick	31	7		131US-5
131	BH-1	No	baghouse	dr-1	sand recycled brick	9.5	1.2	1.24	131BH-1
131	US-7	No	uncontrolled stack	tk-2	brick	31	8.3	3.25	131US-7
131	US-4	No	uncontrolled stack	dc-1, dc-2	brick	31	7	2.99	131US-4
131	US-2	No	uncontrolled stack	md-1	sand recycled brick coatings	19	7.1		131US-2
132	US-13	No	uncontrolled stack	fw-3	clay sand coating	22	0.8		132US-13
132	US-6	No	uncontrolled stack	dc-6	brick	20	8.03	3.20	132US-6
132	US-7	No	uncontrolled stack	tk-1	brick	36	13.6	4.16	132US-7
132	US-3	No	uncontrolled stack	dc-3	brick	20	8.03	3.20	132US-3
132	US-2	No	uncontrolled stack	dc-2	brick	20	8.03	3.20	132US-2
132	US-11	No	uncontrolled stack	fw-2	clay sand coatings	3.5	2.25		132US-11
132	US-10	No	uncontrolled stack	fw-1	clay sand coating	3.5	2.25		132US-10
132	US-1	No	uncontrolled stack	dc-1	brick	20	8.03	3.20	132US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
132	US-4	No	uncontrolled stack	dc-4	brick	20	8.03	3.20	132US-4
132	US-12	No	uncontrolled stack	misc-1	brick	10	7.1		132US-12
132	US-8	No	uncontrolled stack	dc-7	brick	20	3.1	1.99	132US-8
132	US-5	No	uncontrolled stack	dc-5	brick	20	8.03	3.20	132US5
132	US-9	No	uncontrolled stack	dc-8	brick	20	3.1	1.99	132US-9
133	US-18	No	uncontrolled stack	tk-3	brick	46	28.27	6.00	133US-18
133	US-5 TO US-8	No	uncontrolled stack	dc-1 to dc-8	brick	30			133US-5 TO US-8
133	US-1 TO US-2	No	uncontrolled stack	mw-1 to mw-2	colorants				133US-1 TO US-2
133	BH-2	No	uncontrolled stack	cta-2	brick				133BH-2
133	BH-1	No	fabric filter	cta-1	brick				133BH-1
133	US-3	No	uncontrolled stack	dr-1	brick				133US-3
133	US-15 TO US-17	No	uncontrolled stack	dc-9	brick	55			133US-15 TO US-17
133	US-11, US-12	No	uncontrolled stack	tk-1	brick	40.5			133US-11,US-12
133	US-9,US-10	No	uncontrolled stack	tk-2	brick	45			133US-9,US-10
134	US-6	No	uncontrolled stack	tk-3	brick	40	8.8	3.35	134US-6
134	US-4	No	uncontrolled stack	tk-1	brick	29	7.1	3.01	134US-4
134	US-5	No	uncontrolled stack	tk-2	brick	29	7.1	3.01	134US-5
135	US-3	No	uncontrolled stack	tk-3	brick	45	7.07	3.00	135US-3
135	US-1	No	uncontrolled stack	tk-1	brick	60	7.07	3.00	135US-1
135	US-4	No	uncontrolled stack	dc-1	brick	60	7.07	3.00	135US-4

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
135	US-2	No	uncontrolled stack	tk-2	brick	45	7.07	3.00	135US-2
135	US-5	No	uncontrolled stack	dc-2	brick	50	7.07	3.00	135US-5
136	US-4	No	uncontrolled stack	tk-1	brick	25	3.01	1.96	136US-4
137	CY-3	No	twin cyclones	misc-1	brick	46	10.47		137CY-3
137	DS-1	No	uncontrolled stack	tk-1	brick	71	6.2	2.81	137DS-1
137	CY-1	No	twin cyclones	md-1,cta-1	brick	44	9.6		137CY-1
137	DS-1	No	uncontrolled stack	tk-2	brick	71	6.2	2.81	137DS-1A
137	US-3	No	uncontrolled stack	tk-5	red pavers	30	9.62	3.50	137US-3
137	US-4	No	uncontrolled stack	tk-3	brick	110	12.05	3.92	137US-4
137	CY-2	No	twin cyclones	cta-2	brick	38	7.1		137CY-2
137	US-4	No	uncontrolled stack	tk-4	brick	110	12.05	3.92	137US-4A
138	US-5	Yes	uncontrolled stack	tk-1	brick	90	4.9	2.50	138US-5
140	US-3	No	uncontrolled stack	tk-1	face brick	35	115	12.10	140US-3
140	US-1	No	uncontrolled stack	dc-1	face brick	30	191	15.59	140US-1
140	US-2	No	uncontrolled stack	dc-2	face brick	30	59	8.67	140US-2
141	US-4	No	uncontrolled stack	tk-1	tile and brick	40	8.5	3.29	141US-4
142	US-1	No	uncontrolled stack	tk-1	clay pipe				142US-1
143	US-1	No	uncontrolled stack	tk-1	brick				143US-1
143	US-2	No	uncontrolled stack	tk-2	brick				143US-2
143	SC-1	No	scrubber	dr-1	sand				143SC-1
143	US-4 TO US-5	No	uncontrolled stack	dc-2	brick				143US-4 TO US-5
143	US-6	No	uncontrolled stack	ca-1	brick				143US-6
144	US-1	No	uncontrolled stack	tk-1	brick	25	4.83	2.48	144US-1

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
144	US-2	No	uncontrolled stack	dc-1	brick	23	12	3.91	144US-2
146	US-6	No	uncontrolled stack	tk-1	clay roofing tile	10.5	3.9	2.23	146US-6
146	US-7	No	uncontrolled stack	tk-2	clay roofing tile				146US-7
146	US-3	No	uncontrolled stack	dc-3	clay roofing tile	7.75	24.5	5.59	146US-3
146	US-8	No	uncontrolled stack	tk-3	clay roofing tile		6.25		146US-8
146	US-5	No	uncontrolled stack	pk-1	clay roofing tile				146US-5
147	US-1	No	stack	tk-1	brick	175	7.1	3.01	147US-1
148	DA-1	No	limestone scrubber	tk-1	brick	80			148DA-1
149	US-1	No	uncontrolled stack	tk-1		43	8.7	3.33	149US-1
150	BH-1	No	baghouse	cta-3	brick		3.56		150BH-1
150	DIFF-2	No	dry injection fabric filter	tk-2	brick	60	8.3	3.25	150DIFF-2
150	SC-1	No	scrubber	cta-1,cta-2,md-1, md-2,dr-1	brick				150SC-1
150	DIFF-1	No	dry injection fabric filter	tk-1	brick	60	8.3	3.25	150DIFF-1
151	BH-2	No	dust collector	gs-1	brick	7	5.3	2.60	151BH-2
151	DLS-1	No	dry lime scrubber	tk-1	brick	86	14	4.22	151DLS-1
151	US-1	No	uncontrolled stack	dc-1	brick	37	7	2.99	151US-1
151	US-6	No	uncontrolled stack	misc-1	brick	41	7		151US-6
151	BH-1	No	dust collector	mw-1, fw-1	brick	6	1.8		151BH-1
152	US-1	No	uncontrolled stack	tk-1	brick	20	4.83	2.48	152US-1
153	BH-3	No	dry bag house	gr-1	glazed tile	16	1.75		153BH-3
153	US-10	No	uncontrolled stack	tk-2	glazed tile fire brick	22	1.76	1.50	153US-10

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
153	US-3	No	uncontrolled stack	gz-8	glazed tile	8.58	1.76		153US-3
153	BH-2	No	dry bag house	mw-1	glazed tile	10	1.75		153BH-2
153	BH-1	No	dry bag house	s-7	fire brick	19	7.06	3.00	153BH-1
153	US-4	No	uncontrolled stack	gz-9	glazed tile	8.75	1.76		153US-4
153	US-5	No	uncontrolled stack	gz-10	glazed tile	4	1.76		153US-5
153	US-6	No	uncontrolled stack	gz-11	glazed tile	10	1.76		153US-6
153	US-7	No	uncontrolled stack	tk-1	glazed tile firebrick	22	0.54	0.83	153US-7
153	US-8	No	uncontrolled stack	tk-1	glazed tile fire brick	27	1.76	1.50	153US-8
153	US-9	No	uncontrolled stack	tk-2	glazed tile fire brick	16.67	1	1.13	153US-9
154	SC-1	No	wet scrubber	tk-1	brick	55	16	4.51	154SC-1
154	SC-2	No	wet scrubber	tk-2	brick	80	100	11.28	154SC-2
155	DLS-1	No	dry lime scrubber	tk-1	brick	49.4	12.6	4.01	155DLS-1
155	BH-1	No	baghouse	g-1,g-2,s-1	brick	15	12.5	3.99	155BH-1
155	BH-2	No	cyclone/ baghouse	cta-7,mw-1,fw-1	brick	15	1.8		155BH-2
158	US-3	No	uncontrolled stack	tk-1	brick	34	6.3	2.83	158US-3
158	US-1	No	uncontrolled stack	dc-1	brick	30	7.1	3.01	158US-1
159	US-5	No		dc-2	brick	30	9.6	3.50	159US-5
159	US-6	No		tk-1	brick	30	8.4	3.27	159US-6
159	US-4	No		dc-1	brick	30	7	2.99	159US-4
184	BH-1	No	fabric filter	mh-1 to mh-2, cr-1	quarry floor tile			0.00	184BH-1
184	BH-3	No	fabric filter	mw-1 to mw-2	quarry floor tile			0.00	184BH-3

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
184	US-1	No	uncontrolled stack	dc-1	quarry floor tile		11.1	0.00	184US-1
184	US-3	No	uncontrolled stack	tk-1 to tk-4	quarry floor tile		19.63	0.00	184US-3
184	US-4	No	uncontrolled stack	pk-2	wall tile	24	1.4	0.00	184US-4
184	BH-2	No	fabric filter	s-1 to s-8, g-1 to g-2	quarry floor tile			0.00	184BH-2
184	US-5	No	uncontrolled stack	pk-3	wall tile	19	0.54	0.00	184US-5
184	US-6	No	uncontrolled stack	pk-1	wall tile	17	0.35	0.00	184US-6
185	US-3	No	uncontrolled stack	pk-2	floor tile	25	9	0.00	185US-3
185	US-4	No	uncontrolled stack	tk-1	floor tile	25	4	0.00	185US-4
185	US-5	No	uncontrolled stack	pk-3	floor tile	22	6	0.00	185US-5
185	US-6	No	uncontrolled stack	pk-4	floor tile	26	6	0.00	185US-6
185	US-1	No	uncontrolled stack	dp-2	floor tile	4	6	0.00	185US-1
185	US-2	No	uncontrolled stack	pk-1	floor tile	25	9	0.00	185US-2
186	BH-1	No	fabric filter	g-1,g-2,s-1,s-2	clay, shale	26.5	5.33	0.00	186BH-1
186	BH-2	No	fabric filter	gr-1, gr-2	tile, brick	29	1.88	0.00	186BH-2
186	BH-3	No	cartridge filter	g-3, g-4	tile, brick	15	1.6	0.00	186BH-3
186	US-10	No	uncontrolled stack	tk-2	tile, brick	29	2.63	0.00	186US-10
186	US-11	No	uncontrolled stack	tk-3	tile, brick	34	2.63	0.00	186US-11
186	US-12	No	uncontrolled stack	tk-4	tile, brick	44.33	2.63	0.00	186US-12
186	US-9	No	uncontrolled stack	tk-1	tile, brick	29.25	6.56	0.00	186US-9
187	BH-5	No	fabric filter	mh-5	minor constituents	62	0.73	0.00	187BH-5
187	BH-10	No	fabric filter	mh-25	floor tile	14.1	1	0.00	187BH-10
187	BH-11	No	fabric filter	gr-1	floor tile	40	16	0.00	187BH-11
187	BH-12	No	fabric filter	gr-2	floor tile	40	16	0.00	187BH-12

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
187	BH-13	No	fabric filter	gr-3	floor tile	40	16	0.00	187BH-13
187	BH-2	No	fabric filter	g-1	shale	58	0.92	0.00	187BH-2
187	BH-3	No	fabric filter	mh-3, mh-4	shale	55.6	0.78	0.00	187BH-3
187	BH-4	No	fabric filter	misc-1	minor constituents	7	0.63	0.00	187BH-4
187	BH-1	No	fabric filter	mh-2, cr-1	shale	60.3	0.84	0.00	187BH-1
187	BH-6	No	fabric filter	we-1 to we-2, mw-1	tile body	50.5	0.78	0.00	187BH-6
187	BH-8	No	fabric filter	md-1	floor tile	8	0.42	0.00	187BH-8
187	US-2	No	uncontrolled stack	rk-1	glaze tile	24.33	5.24	0.00	187US-2
187	US-3	No	uncontrolled stack	dc-3	floor tile	27.3	7.1	0.00	187US-3
187	US-4	No	uncontrolled stack	dc-4	floor tile			0.00	187US-4
187	US-5	No	uncontrolled stack	dc-5	floor tile	32	5.6	0.00	187US-5
187	US-6	No	uncontrolled stack	tk-1	floor tile	32.3	5.6	0.00	187US-6
187	US-7	No	uncontrolled stack	tk-2	floor tile			0.00	187US-7
187	BH-9	No	fabric filter	mh-18	floor tile	14.1	1	0.00	187BH-9
187	US-1	No	uncontrolled stack	dc-1	glazed tile	21.3	1.76	0.00	187US-1
187	US-8	No	uncontrolled stack	tk-3	floor tile	29.5	5.7	0.00	187US-8
188	US-8	No	uncontrolled stack	tk-1 , tk-2	quarry tile	60	7.1	0.00	188US-8
188	BH-1	No	baghouse	s-1, g-1	quarry tile	40	3.5	0.00	188BH-1
188	BH-2	No	baghouse	s-2, g-2	quarry tile	40	3.5	0.00	188BH-2
189	US-8	No	uncontrolled stack	tk-1	quarry floor tile	30	3.14	0.00	189US-8
189	US-6	No	uncontrolled stack	misc-2	quarry floor tile	12	0.8	0.00	189US-6
189	US-9	No	uncontrolled stack	tk-2	quarry floor tile	30	3.14	0.00	189US-9
189	US-5	No	uncontrolled stack	misc-1	quarry floor tile	12	0.8	0.00	189US-5

TABLE 12. (continued)

FACID	APCD	Multiple devices	APCD type	Sources	Product type	Stack height	Stack area	Stack diameter	APCD ID
189	BH-2	No	baghouse	g-3, s-3, mw-3	quarry floor tile	30	3.14	0.00	189BH-2
189	BH-1	No	baghouse	g-1,g-2, s-1,s-2, mw-1, mw-2	quarry floor tile	35	7.1	0.00	189BH-1
189	US-7	No	uncontrolled stack	misc-3	quarry floor tile	9	0.8	0.00	189US-7
189	US-11	No	uncontrolled stack	tk-4	quarry floor tile	35	4.9	0.00	189US-11
189	US-10	No	uncontrolled stack	tk-3	quarry floor tile	35	4.9	0.00	189US-10
189	BH-3	No	baghouse	g-4, s-4, mw-4	quarry floor tile	20	3.14	0.00	189BH-3

TABLE 13. INLET GAS PARAMETERS

APCDID	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Inlet ID
1DLS-1	30734	18856			450	0.95	lb/ton			Test data		1DLS-12
7US-8	29249	15257		18	558.5							7US-811
9DA-1												9DA-159
13US-1					115							13US-15
13DA-1A			2.4		475							13DA-1A4
13DA-1			2.4		475							13DA-14
13US-2					115							13US-26
13US-3					115							13US-37
13US-4					115							13US-48
31DA-1												31DA-152
31DA-1A												31DA-1A52
59BH-1	18471		3	20	70							59BH-112
72BH-1	41480											72BH-113
72BH-2	4600											72BH-214
72BH-3	41480											72BH-315
72BH-4	1100											72BH-416
72BH-5	5345											72BH-517
85BH-3					140							85BH-318
101BH-2	1000	980										101BH-219
104US-4						0.0033	lb/ton			Emission factor		104US-420
111BHI-1	38500				64							111BHI-122
111BHI-2	4440				64							111BHI-223
111BHI-3	35000				64							111BHI-324
111BHI-4	4440				150							111BHI-421
112BHI-1	23798				64							112BHI-131
112BHI-2	50705				64							112BHI-228
112BHI-3	11508				64							112BHI-326
112BHI-4	68943				64							112BHI-430

TABLE 13. (continued)

APCDID	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Inlet ID
112BHI-5	22845				64							112BHI-529
112BH-6	5843				100							112BH-627
112BHI-7	9955				64							112BHI-732
112BHI-8	6005				64							112BHI-833
112BHI-9	18000				64							112BHI-934
114US-1					200							114US-137
128DA-1					375							128DA-138
131BH-1	6000	5100	1		120							131BH-139
137CY-1	21152											137CY-140
137DS-1					150							137US-142
137CY-2	16430											137CY-241
141US-4	20000	10000										141US-443
143SC-1					600							143SC-145
148DA-1	30000	17661	4.3	17.5	322	0.15	lb/ton			Test data		148DA-146
150BH-1		6200										150BH-149
150DIFF-1												150DIFF-147
150SC-1		7800										150SC-150
150DIFF-2	28525	13270	9.1	16.8	624							150DIFF-248
151DLS-1	30000	17500	7.8	17	345	0.81	lb/ton			Test data		151DLS-151
154SC-1				15.3	500.1	0.11	lb/ton			Test data		154SC-153
154SC-2	59400	25835		16.9	489							154SC-254
155DLS-1	31103	16970	7.79	17.5	101	0.18	lb/ton			Test data		155DLS-157
155BH-1					68							155BH-155
155BH-2					68							155BH-256
112BHI-10	21000				64							112BHI-1035
112BHI-11	21000				64							112BHI-1136
112US-11	15800				425							112US-1125

TABLE 14. INLET GAS HAP

Inlet ID	Inlet Gas HAP	Amount	Units	HAP basis
1DLS-12	HF -- Hydrogen fluoride	0.88	lb/ton	Test data
13DA-1A4	HF -- Hydrogen fluoride	0.69	lb/ton	Test data
13DA-14	HF -- Hydrogen fluoride	0.69	lb/ton	Test data
9DA-159	HF -- Hydrogen fluoride	0.763	lb/ton	Test data
9DA-159	HCl -- Hydrochloric acid	0.097	lb/ton	Test data
31DA-1A52	HF -- Hydrogen fluoride	0.49	lb/ton	Test data (prior to control device installation)
31DA-152	HF -- Hydrogen fluoride	0.451	lb/ton	Mass balance
148DA-146	HF -- Hydrogen fluoride	0.406	lb/ton	Test data
148DA-146	HCl -- Hydrochloric acid	0.434	lb/ton	Test data
150DIFF-147	HF -- Hydrogen fluoride	0.51	lb/ton	Test data
150BH-149	Manganese Compounds	3.5	ton/yr	Mass balance
150BH-149	Chromium Compounds	1	ton/yr	Mass balance
150SC-150	Chromium Compounds	2	ton/yr	Mass balance
150SC-150	Manganese Compounds	2.2	ton/yr	Mass balance
150DIFF-248	HF -- Hydrogen fluoride	0.51	lb/ton	Test data
151DLS-151	HCl -- Hydrochloric acid	0.2	lb/ton	Test data
151DLS-151	HF -- Hydrogen fluoride	0.35	lb/ton	Test data
154SC-153	HF -- Hydrogen fluoride	2.1	lb/ton	Test data
154SC-254	HF -- Hydrogen fluoride	0.753	lb/ton	Test data
155DLS-157	HF -- Hydrogen fluoride	1.035	lb/ton	Test data
155DLS-157	HCl -- Hydrochloric acid	0.19	lb/ton	Test data

TABLE 15. OUTLET GAS PARAMETERS

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
1DLS-1	3	24280	17486	5	17	230	0.004	lb/ton			Test data		1DLS-13
1US-2	2	8782	4900	6	15	410	0.93	lb/ton	0.06	lb/ton	Test data	Test data	1US-22
5US-1	5	12856				110							5US-15
5US-2	6	26000				200							5US-26
5US-3	230	26000				200							5US-3230
5US-4	7	36950				550							5US-47
5US-5	8	36950				550							5US-58
6US-1 TO US-2	9	12856				110							6US-1 TO US-29
6US-3	10	26000				200							6US-310
6US-4	11	26000				200							6US-411
6US-5	12	26000				200							6US-512
6US-6	13	26000				200							6US-613
6US-7	14	36950				550							6US-714
6US-8	15	36950				550							6US-815
7US-8	132						0.292	lb/ton			Test data		7US-8132
8US-3	16	9800				300							8US-316
10US-1	254					105							10US-1
10US-2	255					105							10US-2
10US-3	256					105							10US-3
10US-4	19					105							10US-419
10US-5	20					330							10US-520
10US-6	21					330							10US-621
11US-1	22					115							11US-122
11US-2	23					100							11US-223
11US-3	24	41193	28912	5.44	21	256							11US-324
11US-4	258					68							11US-4258

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
12US-1	39					250							12US-139
12US-2, US-3	40					85							12US-2, US-340
12US-6, US-7	41	30000	21000	45	20.5	115							12US-6, US-741
12US-8	42	18000	9400	4.4		550							12US-842
12US-9	43	18000	9400	4.4		550							12US-943
13DA-1	25	39350	21445	6.2	16.5	440	0.4	lb/ton	0.65	lb/ton	Test data	Test data	13DA-125
13DA-1A	377	39350	21445	6.2	16.5	440	0.4	lb/ton	0.65	lb/ton	Test data	Test data	13DA-1A25
13US-1	26	21200	18500	5.7	20.9	110							13US-126
13US-2	27	21200	18500	5.7	20.9	110							13US-227
13US-3	28	21200	18500	5.7	20.9	110							13US-328
13US-4	29	21200	18500	5.7	20.9	110							13US-429
14US-1	30		18700			350							14US-130
14US-2	31		30840			90							14US-231
15US-1	32		20000			90							15US-132
15US-2	33		17600			400							15US-233
16US-1	35	10230				115							16US-135
16US-2	36	10230				115							16US-236
16US-3	34	30500				410							16US-334
17US-2	38	32000				120							17US-238
17US-3	37	18734				358							17US-337
19US-5	47												19US-547
19US-6	48												19US-648
19US-7 TO US-8	49												19US-7 TO US-849

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
20US-1	44		25185			379	0.96	lb/ton	0.024	lb/ton	AP-42 emission factor	AP-42 emission factor	20US-144
20US-2	45	38432				593	0.96	lb/ton	0.024	lb/ton	AP-42 emission factor	AP-42 emission factor	20US-245
20US-3 TO US-5	46					130	0.187	lb/ton	0.43	lb/ton	AP-42 emission factor	Mass balance	20US-3 TO US-546
23BH-1	55	600				68							23BH-155
23US-1	57	21200				320							23US-157
23US-2	58	21200				350							23US-258
23BH-2	56	1500				68							23BH-256
23BH-3	72	2350				68							23BH-372
23US-3	59	21200				400							23US-359
23US-4	60					400							23US-460
23US-5	61					400							23US-561
23US-6	62					400							23US-662
23US-7	63					400							23US-763
23FE-8	69	1140				840							23FE-869
23US-8	64					400							23US-864
23US-9	65					400							23US-965
24BH-1	50	13000		3		68							24BH-150
24US-1	51					100							24US-151
24US-2	52					425							24US-252
24US-3	53					100							24US-353
24US-4	54					617							24US-454

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
25US-6	261												25US-6261
25US-7	74												25US-774
25US-8	71												25US-871
25US-9	70												25US-970
26BH-1	262		2800										26BH-1262
26US-2	75												26US-275
27BH-1	263					68							27BH-1263
27US-1	77												27US-177
28BH-1	79	1400				68							28BH-179
28US-1	78												28US-178
29US-1	80	2100				149							29US-180
30US-1	81	7610				411							30US-181
30US-2	82	8220				435							30US-282
31DA-1A	387	25000	15000			460							31DA-1A188
31DA-1	88	25000	15000			460							31DA-1188
31US-5	86												31US-586
31US-6	87												31US-687
32US-9	83												32US-983
41US-1	97	20828	18247	7.86	20.4	100	0.11	lb/ton	0.076	lb/ton	Test data	Test data	41US-197
41US-2	98	19765	17228	8	20.4	99.7	0.056	lb/ton	0.042	lb/ton	Test data	Test data	41US-298
41US-3	96	30835	17403	5.19	18.1	436	0.87	lb/ton	0.074	lb/ton	Test data	Test data	41US-396
42US-1	90					120							42US-190
42US-2	91					375							42US-291
43US-1	94	36150				125							43US-194
43US-4	93					140							43US-493
47US-3	101	15622	7655			474							47US-3101

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
48US-2	102	22500	11500	9.1	16.4	482							48US-2102
49US-2	103	28600	15000	7.6	16.6	488							49US-2103
49US-4	104	28600	15000	7.6	16.6	488							49US-4104
51BH-1	113	15500											51BH-1113
51US-1	111					90							51US-1111
51BHI-1	114	1000											51BHI-1114
51US-2	105					105							51US-2105
51BH-3	115	2930											51BH-3115
51US-4	106	16440	9986	8.49	16.83	320							51US-4106
51US-5	107					105							51US-5107
51US-6	112	27000				90							51US-6112
51US-7	108	19690				105							51US-7108
51US-8	116	19690				105							51US-8116
51US-9	109	29095	15024	10.14	17	436							51US-9109
52US-2	118	44837	41571	3.2	19.8	94			0.018	lb/ton		Test data	52US-2118
52BH-2	117	17660	13128	4.2	15.8	242			0.04	lb/ton		Test data	52BH-2117
53BH-1	119	25250				400							53BH-1119
54BH-1	122	13300				60							54BH-1122
54US-2	120	15176		9	17	160	0.93	lb/ton	0.08	lb/ton		Emission factor	54US-2120
54US-4	121	14000		9	17	375	0.93	lb/ton	0.08	lb/ton		Emission factor	54US-4121
55US-1	123	13950				475							55US-1123
55US-2	124	19800				350							55US-2124
56US-1	131												56US-1131
57BH-1	130	18500		2		68	0.0072	lb/ton			Test data		57BH-1130

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
57US-1	125	17800	14500	7	19	145			0.032	lb/ton		Test data (Method 25A)	57US-1125
57US-2	126	18500	15000	7	19	145			0.032	lb/ton		Test data (DC-1)	57US-2126
57BH-3	127	2600	2336	5		130	0.4	ton/yr			Emission factor		57BH-3127
57US-3	128	7300	4350	10		335	0.67	lb/ton	0.04	lb/ton	Test data	Test data	57US-3128
57US-4	129	18500	15000	7		145	0.67	lb/ton	0.04	lb/ton	Test data (TK-1)	Test data (TK-1)	57US-4129
58BH-1	135	22500	22500	2		68							58BH-1135
58US-1	136	17800	14500	7		145							58US-1136
58BH-2	138	4350	3700	6		130							58BH-2138
58US-2	137	25000	22500	7		130							58US-2137
58US-3	133	13300	7900	7	13	380							58US-3133
58BH-3	134	28000	18000	6	13	300	0.04	lb/ton			Test data		58BH-3134
59BH-1	141	18471		3	20	70							59BH-1141
59US-1	139	14552		7	14	170	1.09	lb/ton			Engineering judgment		59US-1139
59US-2	140	29517		7	14	171	1.09	lb/ton			Engineering judgment		59US-2140
60BH-1	145	21500				68							60BH-1145
60BH-2	146	9500				68							60BH-2146
60BH-3	147	2180				120							60BH-3147
60US-4	142	5365		5	16	377	0.25	lb/ton			Test data		60US-4142
60US-5	143	5365		5	16	377	0.25	lb/ton			Test data		60US-5143
60US-6	144	9561		5	16	362	0.56	lb/ton			Test data		60US-6144
61BH-1	151	6500				68							61BH-1151

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
61BH-2	152	8500				68							61BH-2152
61US-4	148	23500				430							61US-4148
61US-5	149	23500				430							61US-5149
61US-6	150	33000				260							61US-6150
62US-3	153					260							62US-3153
62US-4	154					260							62US-4154
63US-2	155								0.02	lb/ton		South Coast AQMDs AB 2588 Emission inventory	63US-2155
63US-3	156								0.02	lb/ton		South Coast AQMDs AB 2588 Emission inventory	63US-3156
65US-1	157	28000			19	590	0.08	lb/ton	0.08	lb/ton	AP-42	AP-42	65US-1157
65US-2	158	28000			19	590							65US-2158
65US-3	159	28000			19	590	0.08	lb/ton	0.08	lb/ton	AP-42	AP-42	65US-3159
66US-2	160	38392				400							66US-2160
67US-3	161												67US-3161
68US-2	162	20500	12600	4	20	370	0.37	lb/ton	0.024	lb/ton	AP-42	AP-42	68US-2162
69US-3	163	22500	12600	4	18	450	0.37	lb/ton	0.024	lb/ton	AP-42	AP-42	69US-3163
69US-4	311	19870	12110	4	20	375	0.37	lb/ton	0.024	lb/ton	AP-42	AP-42	69US-4311
70DIFF-1	164	16200	9208	9.4	13.5	413			0.253	lb/hr		Test data	70DIFF-1164
70DIFF-2	165	17583	10380	9.1	14	413			0.293	lb/hr		Test data	70DIFF-2165
72BH-1	166	41480											72BH-1166
72BH-2	167	4600											72BH-2167

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
72BH-3	168	41480											72BH-3168
72BH-4	169	1100											72BH-4169
72BH-5	173	5345											72BH-5173
73US-4	174				14.4	513	0.45	lb/ton	0.73	lb/ton	Test data	Test data	73US-4174
73US-5	175						0.53	lb/ton	0.73	lb/ton	Test data	Test data	73US-5175
75US-2	176					345							75US-2176
76US-1	177					420							76US-1177
76US-2	178					105							76US-2178
77US-5	180												77US-5180
78US-1	181	68000											78US-1181
78US-2	182	62000											78US-2182
78US-3	184	37000											78US-3184
78US-4	183	27000											78US-4183
79US-1	185												79US-1185
80US-1	186												80US-1186
80US-2	187												80US-2187
80US-3	188												80US-3188
82US-2	348	12700				180							82US-2348
82US-3	349	25400		2.8		395							82US-3349
84US-1	342					110							84US-1342
84US-2	189	31521	14935	7.4	16.5	533							84US-1189
85US-1	194	35165	26908		20	178	0.56	lb/ton			Test data		85US-1194
85BH-1	192	3700				68	0.65	ton/yr			Engineering judgment		85BH-1192
85CY-1	190	10106	5647	6.18	18	423	0.52	lb/ton			Test data		85CY-1190
85BH-2	191	605				68							85BH-2191

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
85BH-3	193	934		5		130							85BH-3193
86US-2	195			15	21.9	110							86US-2195
86US-3	196				13.7	610							86US-3196
86US-6	197												86US-6197
88US-2	207	35088.7	19374.4	5.7	18	438.1	0.678	tpy	0.088	tpy	Emission factor	Emission factor	88US-2207
89US-5	198	23603	11305	5.2	20.9	500							89US-5198
90US-1	203	25120	27488			98							90US-1203
90US-2	204	19216	19201			108							90US-2204
90US-3	205		59873			380							90US-3205
90US-4	206		88200			420							90US-4206
91US-1	199	7314											91US-1199
91US-2	200	7314											91US-2200
91US-3	201	7314											91US-3201
91US-4	202	7314											91US-4202
100DS-1	208	16725	13750			160							100DS-1208
100DS-1A	378	16725	13750			160							100DS-1A208
100US-2	209					160							100US-2209
100US-3	210					160							100US-3210
101US-1, US-2	216	80000	72770			100							101US-1, US-2216
101DS-1A	384	8000	6680			150							101DS-1A213
101BH-1	212	1000	980			68							101BH-1212
101DS-1	213	8000	6680			150							101DS-1213
101BH-2	211	1000	980			68							101BH-2211
101US-4	215	50000	45480			100							101US-4215

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
101US-5	214	46500	28900			360							101US-5214
102BH-1	345					68							102BH-13445
102DS-1A	385												102DS-1A221
102DS-1	221												102DS-1221
102US-2	222		100										102US-2222
103DS-1A	381	12500	10270			160							103DS-1A224
103DS-1B	382	12500	10270			160							103DS-1B224
103DS-1C	383	12500	10270			160							103DS-1C224
103BH-1	229	1000	980			68							103BH-1229
103DS-1	224	12500	10270			160							103DS-1224
103DS-2	223	8000	6680			150							103DS-2223
103DS-2A	380	8000	6680			150							103DS-2A223
103BH-2	227	1000	980			68							103BH-2227
104US-1	218	87				200							104US-1218
104US-2	217	5440				130							104US-2217
104US-3	220	5173				340							104US-3220
104US-4	219						0.0002	lb/ton			Emission factor		104US-4219
105US-1 TO US-5	226					450							105US-1 TO US-5226
105US-6	228					80							105US-6228
111US-1 TO US-6	232	3175				100							111US-1 TO US-6232
111US-7	233	2500				140							111US-7233
111US-8	231	22000				230	0.79	lb/ton			Test data		111US-8231
112US-1	245	25000				400							112US-1245

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
112US-2	236	25000				400							112US-2236
112US-3	237	9000				140							112US-3237
112US-6	246	35000				95							112US-6246
112BH-6	244	7000				76							112BH-6244
112US-7	247	35000				95							112US-7247
112US-8	248	23000				300							112US-8248
112US-9	239	49000				440	0.62	lb/ton			Test data		112US-9239
113US-1	252												113US-1252
114US-1	253						0.021	lb/ton			Emission factor		114US-1253
122US-1	264	2516											122US-1264
122US-3	266	4700				210							122US-3266
122US-5	265	22913				350							122US-5265
123US-1	272												123US-1272
123BH-1	268	41000											123BH-1268
123SC-1	278	10000											123SC-1278
123US-2	273												123US-2273
123BHI-2	269	17200											123BHI-2269
123US-3	274												123US-3274
123BH-4	267	9000											123BH-4267
123US-4	275												123US-4275
123US-5	270												123US-5270
123US-6	277												123US-6277
123US-7	276												123US-7276
123US-8	271												123US-8271

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
126US-1 TO US-6	279												126US-1 TO US-6279
127US-6	282	13746		4.9	19	577							127US-6282
127US-7	280	6496		4	21	120							127US-7280
127US-8	281	40317		4.6	21	110							127US-8281
128DA-1	283	47900		7.85	18	281	0.23	lb/ton			Test data		128DA-1283
128US-1	284	67100		5.53	21	108							128US-1284
129US-2	286	30800		3.26	21	88							129US-2286
129US-4	285	30990		7.15	18.75	374							129US-4285
130US-3	287	13000				425							130US-3287
130US-4	288	13000				375	1.28	lb/ton			Test data		130US-4288
131BH-1	289					120							131BH-1289
131US-3	290					85							131US-3290
131US-4	291					115							131US-4291
131US-5	323					115							131US-5323
131US-6	292					550							131US-6292
131US-7	293												131US-7293
132US-7	294												132US-7294
134US-4	330					445							134US-4330
134US-5	331					445							134US-5331
134US-6	332					445							134US-6332
135US-1	300	21700	12275	6.2	17	400.7							135US-1300
135US-2	298	21700	12275	6.2	17.9	400.7							135US-2298
135US-3	297	21700	12275	6.2	17.9	400.7							135US-3297
135US-4	301	9500	6175	4.7	18.8	298							135US-4301
135US-5	299	9500	6175	4.7	18.8	298							135US-5299

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
136US-4	302	13700	8699	4.37	17.5	330							136US-4302
137DS-1A	379	16737	13469				1.3	lb/ton	0.18	lb/ton	Test data	Test data	137DS-1A303
137DS-1	303	16737	13469				1.3	lb/ton	0.18	lb/ton	Test data	Test data	137DS-1303
137CY-3	305	24888											137CY-3305
137US-3	306	22673	11398			479							137US-3306
137US-4	304	23727	14213	12.6	15.5	292							137US-4304
137US-4A	386	23727	14213	12.6	15.5	292							137US-4A304
138US-5	307	13114	7129	11.4	15.9								138US-5307
140US-1	308		37000			120							140US-1308
140US-2	309		5000			300							140US-2309
140US-3	310		11000			500							140US-3310
141US-4	312	19400	8930	6.2	16.5	595	2.95	lb/ton					141US-4312
142US-1	313												142US-1313
143US-1	316	18113		11.97	16.5	410							143US-1316
143US-2	315	31501		6.46	19	353							143US-2315
143US-4 TO US-5	314	52763		2.89	20	74.3							143US-4 TO US-5314
143US-6	317	12942		21.57	15.5	329							143US-6317
144US-1	318	20500	11100	7.3	17	400	0.27	lb/ton	0.057	lb/ton	Test data	Test data	144US-1318
144US-2	319	23800	20200	8	21	100	0.19	lb/ton	0.28	lb/ton	Test data	Test data	144US-2319
146US-3	327	42481			17.9	84.2							146US-3327
146US-5	324												146US-5324
146US-6	325				16.6	437.8							146US-6325
146US-7	326												146US-7326
146US-8	328	8824.3			19.7	301							146US-8328
147US-1	329	20000		10		210							147US-1329

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
148DA-1	333	30000	18577	4.8	18.5	302	0.15	lb/ton			Test data		148DA-1333
149US-1	334	20165	13769	6.42	16.2	261							149US-1334
150DIFF-1	337												150DIFF-1337
150BH-1	339												150BH-1339
150SC-1	340												150SC-1340
150DIFF-2	338	24350	16243	14.7	15.8	299							150DIFF-2338
151US-1	357	14000	12600	2.1	21	102	0.021	lb/ton	0.047	lb/ton	Test data	Test data	151US-1357
151BH-1	353	6350	5900	1.2	21	86	0.056	lb/hr			Test data		151BH-1353
151DLS-1	355	31300	19900	9.4	17	277	0.73	lb/ton	0.8	lb/ton	Test data	Test data	151DLS-1355
151BH-2	352	12000	11100	2	21	84	0.288	lb/hr			Test data		151BH-2352
151US-6	354	20300	18400	3.4	21	93	0.046	lb/ton	0.047	lb/ton	Test data	Test data	151US-6354
152US-1	358			9.73	16.4	425	0.502	lb/ton			Test data		152US-1358
153BH-1	375					68							153BH-1375
153BH-2	367					68							153BH-2367
153BH-3	366					68							153BH-3366
153US-3	359					68							153US-3359
153US-4	360					68							153US-4360
153US-5	361					68							153US-5361
153US-6	362					68							153US-6362
153US-7	376					68							153US-7376
153US-8	363					650							153US-8363
153US-9	364					200							153US-9364
154SC-1	368	18840	28353			250	0.11	lb/ton	0.15	lb/ton	Test data	Test data	154SC-1368
154SC-2	369	43800	28350		16.1	131	0.7	lb/ton	0.17	lb/ton	Test data	Test data	154SC-2369
155DLS-1	371	32347	18833	8.1	17.8	94	0.072	lb/ton			Test data		155DLS-1371
155BH-2	370	9600											155BH-2370

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
159US-4	372				21	100							159US-4372
159US-5	373				21	100							159US-5373
159US-6	374	7560		0		240							159US-6374
184BH-1	402	4500											184BH-1402
184US-1	406	21032	18387	5.18	21	107							184US-1406
184BH-2	403	28000											184BH-2403
184US-3	405	53741	34561	5.82		304							184US-3405
184BH-3	404	14000											184BH-3404
186US-9	407				18.5	300							186US-9407
187US-2	413					300							187US2413
187US-6	411					300							187US-6411
187US-8	412					300							187US8412
188BH-1	399		17000										188BH-1399
188BH-2	400		17000										188BH-2400
188US-8	401	33000				500							188US-8401
189BH-1	395	15000											189BH-1395
189BH-2	397	9000											189BH-2397
189BH-3	398	9000											189BH-3398
189US-5	392	800											189US-5392
189US-6	393	800											189US-6393
189US-7	394	800											189US-7394
189US-8	388	5000				325							189US-8388
189US-9	389	5000				350							189US-9389
20US-11 TO US-18	259					130							20US-11 TO US-18259
23US-10	66					400							23US-1066

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
23US-11	68					400							23US-1168
23US-12	73	23688				450							23US-1273
25US-10	67												25US-1067
32US-10	84												32US-1084
32US-11	85												32US-1185
43US-2,DS-1	92	40725				240							43US-2,DS-192
46US-1,DS-1	99	31791	20210	10.5	17	276							46US-1,DS-199
51US-10	110					225							51US-10110
112US-10	249	2500				500							112US-10249
112US-11	351	15800				425							112US-11351
112US-12	234	15800				425	2.12	lb/ton			Test data		112US-12234
112US-13	235	16700				490	0.89	lb/ton			Test data		112US-13235
112US-14	238	63000				90							112US-14238
112US-15	241	63000				90							112US-15241
112US-16	242	63000				90							112US-16242
112US-17	240	1000				100							112US-17240
112US-18	250	2500				500							112US-18250
112US-19	243	8000				50							112US-19243
112US-20	251	1000				50							112US-20251
133US-18	296	96363	57542	6.9	18	423	0.18	lb/ton			Test data		133US-18296
153US-10	365					550							153US-10365
186US-10	408				18.5	300							186US-10408
186US-11	409					300							186US-11409
186US-12	410				18.5	300							186US-12410
189US-10	390	5000				400							189US-10390
189US-11	391	5000				400							189US-11391

TABLE 15. (continued)

APCD ID	Outlet No.	Actual flow	Standard flow	Moisture content	O_2 content	Temperature	PM	PM units	VOC	VOC units	PM basis	VOC basis	Outlet ID
72US-3,US-4,DS-2	170	76111	53165	7.72	17	216	0.965	lb/ton			Test data		72US-3,US-4, DS-2170
133US-9,US-10	295						0.065	lb/ton			Test data--1 of 2 stacks		133US-9, US-10295

TABLE 16. OUTLET GAS HAPS

Outlet ID	Outlet gas HAP	Amount	Units	HAP basis
1DLS-13	HF -- Hydrogen fluoride	0.003	lb/ton	Test data
1US-22	HF -- Hydrogen fluoride	0.165	lb/ton	Test data
5US-47	HF -- Hydrogen fluoride	0.82	lb/ton	Mass balance
5US-58	HF -- Hydrogen fluoride	0.82	lb/ton	Mass balance
51US-4106	HCl -- Hydrochloric acid	0.04	lb/ton	Test data
51US-4106	HF -- Hydrogen fluoride	0.401	lb/ton	Test data
51US-9109	HF -- Hydrogen fluoride	0.568	lb/ton	Test data
51US-9109	HCl -- Hydrochloric acid	0.045	lb/ton	Test data
6US-714	HF -- Hydrogen fluoride	0.72	lb/ton	Mass balance
6US-815	HF -- Hydrogen fluoride	0.72	lb/ton	Mass balance
7US-8132	HF -- Hydrogen fluoride	0.282	lb/ton	Test data
10US-520	HCl -- Hydrochloric acid	0.117	lb/ton	Mass balance
10US-520	HF -- Hydrogen fluoride	0.5747	lb/ton	Mass balance
10US-621	HF -- Hydrogen fluoride	0.5747	lbs/ton	Mass balance
10US-621	HCl -- Hydrochloric acid	0.117	lbs/ton	Mass balance
11US-324	HCl -- Hydrochloric acid	0.689	lb/ton	Test data
12US-842	HF -- Hydrogen fluoride	1.11	lb/ton	Mass balance
12US-943	HF -- Hydrogen fluoride	1.11	lb/ton	Mass balance
13DA-1A25	HF -- Hydrogen fluoride	0.053	lb/ton	Test data
13DA-125	HF -- Hydrogen fluoride	0.053	lb/ton	Test data
19US-547	HF -- Hydrogen fluoride	0.4368	lb/ton	70% mass balance
19US-648	HF -- Hydrogen fluoride	0.4368	lb/ton	70% mass balance
19US-7 TO US-849	HF -- Hydrogen fluoride	0.4368	lb/ton	70% mass balance
20US-3 TO US-546	Naphthalene	0.00094	lb/ton	AP-42 emission factor
23US-359	HF -- Hydrogen fluoride	0.23492	lb/ton	Ellis test data
25US-774	HF -- Hydrogen fluoride	0.66	lb/ton	Mass balance
25US-871	HF -- Hydrogen fluoride	0.66	lb/ton	Mass balance
25US-970	HF -- Hydrogen fluoride	0.66	lb/ton	Mass balance
25US-1067	HF -- Hydrogen fluoride	0.66	lb/ton	Mass balance
25US-6261	HF -- Hydrogen fluoride	0.66	lb/ton	Mass balance
26US-275	HF -- Hydrogen fluoride	0.51	lb/ton	Mass balance
27US-177	HF -- Hydrogen fluoride	0.4	lb/ton	Mass balance
28US-178	HF -- Hydrogen fluoride	1.16	lb/ton	Mass balance
30US-181	HF -- Hydrogen fluoride	0.4335	lb/ton	Emission factor
30US-282	HF -- Hydrogen fluoride	0.167	lb/ton	Emission factor
31US-586	HF -- Hydrogen fluoride	0.194	lb/ton	Test data
31US-687	HF -- Hydrogen fluoride	0.194	lb/ton	Test data
32US-983	HF -- Hydrogen fluoride	0.539	lb/ton	Test data

TABLE 16. (continued)

Outlet ID	Outlet gas HAP	Amount	Units	HAP basis
32US-1084	HF -- Hydrogen fluoride	0.499	lb/ton	Test data
32US-1185	HF -- Hydrogen fluoride	0.499	lb/ton	Test data
46US-1,DS-199	HF -- Hydrogen fluoride	0.297	lb/ton	Test data
47US-3101	HF -- Hydrogen fluoride	0.373	lb/ton	Test data
48US-2102	HF -- Hydrogen fluoride	0.328	lb/ton	Test data
49US-2103	Manganese Compounds	0.0000846	lb/ton	Test data
49US-2103	HF -- Hydrogen fluoride	0.315	lb/ton	Test data
49US-2103	Antimony Compounds	0.0000638	lb/ton	Test data
49US-2103	Cobalt Compounds	0.00000427	lb/ton	Test data
49US-2103	HCl -- Hydrochloric acid	0.18	lb/ton	Test data
49US-2103	Mercury Compounds	0.00001	lb/ton	Test data
49US-2103	Selenium Compounds	0.0000428	lb/ton	Test data
49US-2103	Chromium Compounds	0.0000209	lb/ton	Test data
49US-2103	Nickel Compounds	0.0000128	lb/ton	Test data
49US-2103	Arsenic Compounds	0.000023	lb/ton	Test data
49US-2103	Cadmium Compounds	0.00000576	lb/ton	Test data
49US-4104	Nickel Compounds	0.0000128	lb/ton	Test data
49US-4104	Manganese Compounds	0.0000846	lb/ton	Test data
49US-4104	Cobalt Compounds	0.00000427	lb/ton	Test data
49US-4104	HF -- Hydrogen fluoride	0.315	lb/ton	Test data
49US-4104	HCl -- Hydrochloric acid	0.18	lb/ton	Test data
49US-4104	Chromium Compounds	0.0000209	lb/ton	Test data
49US-4104	Cadmium Compounds	0.00000576	lb/ton	Test data
49US-4104	Arsenic Compounds	0.0000229	lb/ton	Test data
49US-4104	Selenium Compounds	0.0000428	lb/ton	Test data
49US-4104	Antimony Compounds	0.0000638	lb/ton	Test data
49US-4104	Mercury Compounds	0.00001	lb/ton	Test data
54US-2120	HF -- Hydrogen fluoride	0.165	lb/ton	Emission factor
54US-4121	HF -- Hydrogen fluoride	0.165	lb/ton	Emission factor
56US-1131	HF -- Hydrogen fluoride	0.79	lb/ton	Mass balance
57US-3128	Manganese Compounds	0.000047	lb/ton	Test data
57US-3128	HF -- Hydrogen fluoride	0.13	lb/ton	Test data
57US-3128	Chromium Compounds	0.000078	lb/ton	Test data
57US-4129	HF -- Hydrogen fluoride	0.13	lb/ton	Test data (tk-1)
57US-4129	Chromium Compounds	0.000078	lb/ton	Test data (tk-1)
57US-4129	Manganese Compounds	0.000047	lb/ton	Test data (tk-1)
65US-1157	HCl -- Hydrochloric acid	0.025	lb/ton	AP-42

TABLE 16. (continued)

Outlet ID	Outlet gas HAP	Amount	Units	HAP basis
65US-2158	HCl -- Hydrochloric acid	0.025	lb/ton	AP-42
65US-2158	HF -- Hydrogen fluoride	1.053	lb/ton	Test data
65US-3159	HCl -- Hydrochloric acid	0.025	lb/ton	AP-42
66US-2160	HF -- Hydrogen fluoride	6	ton/yr	Engineering judgment
66US-2160	HCl -- Hydrochloric acid	3.2	ton/yr	Engineering judgment
67US-3161	HF -- Hydrogen fluoride	0.2	lb/ton	Mass balance
68US-2162	HF -- Hydrogen fluoride	0.37	lb/ton	AP-42
68US-2162	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
69US-3163	HF -- Hydrogen fluoride	0.37	lb/ton	AP-42
69US-3163	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
69US-4311	HF -- Hydrogen fluoride	0.37	lb/ton	AP-42
69US-4311	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
70DIFF-1164	HF -- Hydrogen fluoride	0.000504	lb/ton	Test data
70DIFF-2165	HF -- Hydrogen fluoride	0.000533	lb/ton	Test data
72US-3,US-4,DS-2170	HF -- Hydrogen fluoride	0.258	lb/ton	Test data
72US-3,US-4,DS-2170	HCl -- Hydrochloric acid	0.052	lb/ton	Test data
73US-4174	HF -- Hydrogen fluoride	0.57	lb/ton	Test data
73US-5175	HF -- Hydrogen fluoride	0.37	lb/ton	Test data
75US-2176	HF -- Hydrogen fluoride	0.672	lb/ton	Mass balance
76US-1177	HF -- Hydrogen fluoride	0.38	lb/ton	AP-42
77US-5180	HF -- Hydrogen fluoride	0.33	lb/ton	Test data
78US-3184	HF -- Hydrogen fluoride	1.04	lb/ton	Mass balance
78US-4183	HF -- Hydrogen fluoride	0.84	lb/ton	Mass balance
79US-1185	HF -- Hydrogen fluoride	1.34	lb/ton	Mass balance
80US-1186	HF -- Hydrogen fluoride	2.18	ton/yr	Engineering judgment
80US-2187	HF -- Hydrogen fluoride	2.18	ton/yr	Engineering judgment
80US-3188	HF -- Hydrogen fluoride	2.18	ton/yr	Engineering judgment
84US-1189	HF -- Hydrogen fluoride	0.46	lb/ton	Test data
85CY-1190	HF -- Hydrogen fluoride	0.84	lb/ton	Test data
85US-1194	HF -- Hydrogen fluoride	0.25	lb/ton	Test data
86US-3196	HF -- Hydrogen fluoride	0.324	lb/ton	Test data
86US-3196	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
86US-6197	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
86US-6197	HF -- Hydrogen fluoride	0.188	lb/ton	Test data
88US-2207	HF -- Hydrogen fluoride	29.22	tpy	Test data
89US-5198	HF -- Hydrogen fluoride	0.8	lb/ton	Mass balance
91US-1199	HF -- Hydrogen fluoride	0.58	lb/ton	Mass balance

TABLE 16. (continued)

Outlet ID	Outlet gas HAP	Amount	Units	HAP basis
91US-2200	HF -- Hydrogen fluoride	0.58	lb/ton	Mass balance
91US-3201	HF -- Hydrogen fluoride	0.58	lb/ton	Mass balance
91US-4202	HF -- Hydrogen fluoride	0.58	lb/ton	Mass balance
100DS-1A208	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor
100DS-1208	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor
101DS-1A213	HF -- Hydrogen fluoride	0.23	lb/ton	Test data
101DS-1213	HF -- Hydrogen fluoride	0.23	lb/ton	Test data
102DS-1221	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
102DS-1A221	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
103DS-1A224	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
103DS-1B224	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
103DS-1C224	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
103DS-1224	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
103DS-2223	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
103DS-2A223	HF -- Hydrogen fluoride	0.23	lb/ton	Emission factor from Moncure
104US-2217	HF -- Hydrogen fluoride	0.0008	lb/ton	Mass balance
104US-2217	HCl -- Hydrochloric acid	0.0058	lb/ton	Mass balance
111US-8231	HF -- Hydrogen fluoride	0.44	lb/ton	Test data
112US-2236	HF -- Hydrogen fluoride	0.72	lb/ton	Test data
112US-9239	HF -- Hydrogen fluoride	0.58	lb/ton	Test data
112US-12234	HF -- Hydrogen fluoride	0.95	lb/ton	Test data
112US-12234	HCl -- Hydrochloric acid	0.89	lb/ton	Test data
112US-13235	HCl -- Hydrochloric acid	0.27	lb/ton	Test data
112US-13235	HF -- Hydrogen fluoride	0.88	lb/ton	Test data
113US-1252	HF -- Hydrogen fluoride	1.11	lb/ton	Mass balance
114US-1253	HF -- Hydrogen fluoride	0.078	lb/ton	Mass balance
122US-5265	HF -- Hydrogen fluoride	0.39	lb/ton	Mass balance
123US-1272	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
123US-1272	HF -- Hydrogen fluoride	0.196	lb/ton	Emission factor
123US-2273	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
123US-2273	HF -- Hydrogen fluoride	0.196	lb/ton	Emission factor
123US-3274	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42

TABLE 16. (continued)

Outlet ID	Outlet gas HAP	Amount	Units	HAP basis
123US-3274	HF -- Hydrogen fluoride	0.196	lb/ton	Emission factor
123US-4275	HF -- Hydrogen fluoride	0.196	lb/ton	Emission factor
123US-4275	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
123US-5270	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
123US-5270	HF -- Hydrogen fluoride	0.135	lb/ton	Test data
123US-6277	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
123US-6277	HF -- Hydrogen fluoride	0.34	lb/ton	Emission factor
123US-7276	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
123US-7276	HF -- Hydrogen fluoride	0.34	lb/ton	Emission factor
123US-8271	Chromium Compounds	0.000003	lb/ton	
123US-8271	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
123US-8271	Manganese Compounds	0.000055	lb/ton	
123US-8271	HF -- Hydrogen fluoride	0.496	lb/ton	Test data
126US-1 TO US-6279	HF -- Hydrogen fluoride	17.756	tpy	
127US-6282	HF -- Hydrogen fluoride	2.316	lb/hr	Test data
127US-7280	HF -- Hydrogen fluoride	0.077	lb/hr	Test data
127US-8281	HF -- Hydrogen fluoride	0.0449	lb/hr	Test data
128DA-1283	HF -- Hydrogen fluoride	0.004	lb/hr	Test data
128US-1284	HF -- Hydrogen fluoride	0.00056	lb/hr	Test data
129US-2286	HF -- Hydrogen fluoride	0.83	ton/yr	Test data
129US-2286	HCl -- Hydrochloric acid	0.37	ton/yr	Test data
129US-4285	HCl -- Hydrochloric acid	9.4	ton/yr	Test data
129US-4285	HF -- Hydrogen fluoride	15	ton/yr	Test data
130US-4288	HF -- Hydrogen fluoride	0.96	lb/ton	Test data
130US-4288	HCl -- Hydrochloric acid	0.91	lb/ton	Test data
131US-6292	HF -- Hydrogen fluoride	0.61	lb/ton	Mass balance
131US-7293	HF -- Hydrogen fluoride	0.61	lb/ton	Mass balance
132US-7294	HF -- Hydrogen fluoride	0.78	lb/ton	Mass balance
133US-9,US-10295	HF -- Hydrogen fluoride	0.015	lb/ton	Test data-1 of 2 stacks
133US-18296	HF -- Hydrogen fluoride	0.89	lb/ton	Test data
133US-18296	HCl -- Hydrochloric acid	0.43	lb/ton	Test data
135US-1300	HF -- Hydrogen fluoride	0.328	lb/ton	Test data
135US-2298	HF -- Hydrogen fluoride	0.328	lb/ton	Test data
135US-3297	HF -- Hydrogen fluoride	0.455	lb/ton	Test data
135US-4301	HF -- Hydrogen fluoride	0.127	lb/ton	Test data
135US-5299	HF -- Hydrogen fluoride	0.127	lb/ton	Test data
137DS-1A303	HF -- Hydrogen fluoride	0.18	lb/ton	Test data

TABLE 16. (continued)

Outlet ID	Outlet gas HAP	Amount	Units	HAP basis
137DS-1A303	Manganese Compounds	0.00048	lb/ton	Test data
137DS-1303	HF -- Hydrogen fluoride	0.18	lb/ton	Test data
137DS-1303	Manganese Compounds	0.00048	lb/ton	Test data
137US-3306	HCl -- Hydrochloric acid	0.07	lb/ton	Test data
137US-3306	HF -- Hydrogen fluoride	0.29	lb/ton	Test data
137US-4304	Manganese Compounds	0.013	lb/ton	Test data
137US-4304	HF -- Hydrogen fluoride	0.59	lb/ton	Test data
138US-5307	HF -- Hydrogen fluoride	0.63	lb/ton	Test data
140US-3310	HF -- Hydrogen fluoride	0.88	lb/ton	Mass balance
142US-1313	HF -- Hydrogen fluoride	0.37	lb/ton	AP-42
142US-1313	HCl -- Hydrochloric acid	0.17	lb/ton	AP-42
143US-1316	HCl -- Hydrochloric acid	2.1	ton/yr	Test data
143US-1316	HF -- Hydrogen fluoride			
143US-2315	HF -- Hydrogen fluoride	8.6	ton/yr	Test data
143US-2315	HCl -- Hydrochloric acid	2.4	ton/yr	Test data
143US-6317	HF -- Hydrogen fluoride	0.097	ton/yr	Test data
143US-4 TO US-5314	HF -- Hydrogen fluoride	0.3	ton/yr	Test data
144US-1318	HF -- Hydrogen fluoride	0.53	lb/ton	Test data
144US-1318	HCl -- Hydrochloric acid	0.16	lb/ton	Test data
144US-2319	HCl -- Hydrochloric acid	0.0094	lb/ton	Test data
144US-2319	HF -- Hydrogen fluoride	0.15	lb/ton	Test data
146US-5324	HF -- Hydrogen fluoride	0.29	lb/ton	Mass balance
146US-6325	HF -- Hydrogen fluoride	0.29	lb/ton	Mass balance
146US-7326	HF -- Hydrogen fluoride	0.29	lb/ton	Mass balance
146US-8328	HF -- Hydrogen fluoride	0.29	lb/ton	Mass balance
147US-1329	HCl -- Hydrochloric acid	0.55	lb/ton	Mass balance
148DA-1333	HCl -- Hydrochloric acid	0.354	lb/ton	Test data
148DA-1333	HF -- Hydrogen fluoride	0.027	lb/ton	Test data
149US-1334	HF -- Hydrogen fluoride	0.54	lb/ton	Test data
149US-1334	HCl -- Hydrochloric acid	0.032	lb/ton	Test data
150DIFF-1337	HF -- Hydrogen fluoride	0.0011	lb/ton	Test data
150BH-1339	Manganese Compounds	0.1	ton/yr	Engineering judgment
150BH-1339	Chromium Compounds	0.1	ton/yr	Engineering judgment
150SC-1340	Manganese Compounds	0.1	ton/yr	Engineering judgment
150SC-1340	Chromium Compounds	0.1	ton/yr	Engineering judgment
150DIFF-2338	HF -- Hydrogen fluoride	0.0011	lb/ton	Test data
151DLS-1355	HF -- Hydrogen fluoride	0.00018	lb/ton	Test data

TABLE 16. (continued)

Outlet ID	Outlet gas HAP	Amount	Units	HAP basis
151DLS-1355	HCl -- Hydrochloric acid	0.0037	lb/ton	Test data
151US-1357	HF -- Hydrogen fluoride	0.00026	lb/hr	Test data
152US-1358	HF -- Hydrogen fluoride	0.504	lb/ton	Test data
153US-8363	HF -- Hydrogen fluoride	0.144	lb/ton	Mass balance
153US-10365	HF -- Hydrogen fluoride	0.144	lb/ton	Mass balance
154SC-1368	HF -- Hydrogen fluoride	0.0013	lb/ton	Test data
154SC-2369	HF -- Hydrogen fluoride	0.188	lb/ton	Test data
155DLS-1371	HCl -- Hydrochloric acid	0.068	lb/ton	Test data
155DLS-1371	HF -- Hydrogen fluoride	0.068	lb/ton	Test data
159US-6374	HF -- Hydrogen fluoride	1.47	lb/ton	Mass balance

TABLE 17. FABRIC FILTERS

FACID	APCD	Filter type	Install date	Manufacturer	Bags	Filter	Filter weight	Bag life	Ac ratio	Cleaning
1	BH-1	b		Carter Day	376	Polypropylene		24	4.2	Pulse jet
1	BH-2	b			81	Polypropylene		24	4.9	Pulse jet
1	BH-3	b	1985			Polyester		24	5.1	Pulse jet
100	BH-1	b	1994	Donaldson/Torit	24	Cotton			1.5	Pulse jet
101	BH-1	b	1993	Donaldson/Torit		Cotton			1.7	Air pulse
101	BH-2	b	1993	Donaldson/Torit		Cotton			1.7	Air pulse
102	BH-1	b	1993	Donaldson/Torit	12				1.5	Air pulse
103	BH-1	b	1986	Pneumafil		Paper/cellulose			1.1	Air pulse
103	BH-2	b	1986	Pneumafil		Paper/cellulose			1.1	Air pulse
104	BH-1	b	1991	Mac Equipment	44	Dacron polyester	16	60	11	Pulse jet
104	BH-2	b	1991	Mac Equipment	44	Dacron polyester	12	75	11	Pulse jet
105	BH-1	b	1960			Polypropylene			2.21	Shaking
105	BH-2	b	1970			Polypropylene			8.53	Shaking
106	BH-1	b				Canvas				Self cleaning
106	BH-2	b				Canvas				Self cleaning
106	BH-3	b				Canvas				Self cleaning
111	BHI-1	b	1980	Griffin						Pulse jet
111	BHI-2	b	1980	DCE						Pulse jet
111	BHI-3	b	1987	DCE						Pulse jet
111	BHI-4	b	1980	DCE						Pulse jet
112	BH-6		1990	DCE						Pulse jet
112	BHI-1	b	1964	Sly						Shaking
112	BHI-10		1994	DCE						Pulse jet
112	BHI-11	b	1974	Carborundum						Shaking
112	BHI-2	b	1964	Sly						Shaking
112	BHI-3	b	1979	Carborundum						Shaking
112	BHI-4	b	1964	Sly						Shaking
112	BHI-5	b	1964	Sly						Shaking
112	BHI-7	b	1964	Sly						Shaking
112	BHI-8	b	1978	Carborundum						Shaking
112	BHI-9	b	1956	Sly						Shaking
119	BH-1	b	1973	Flex-Kleen	256	Polyester	2.29	12	7.813	Pulse jet
123	BH-1	b		Panghorn					3.16	
123	BH-4	b		Torit					2.39	

TABLE 17. (continued)

FACID	APCD	Filter type	Install date	Manufacturer	Bags	Filter	Filter weight	Bag life	Ac ratio	Cleaning
123	BHI-2	b		American Wheelabrator					3.08	
131	BH-1	b	1998	Dust Control Equip., Inc.	70	Nomex zylon bags	0.11		5.3	Pulse jet
133	BH-1	c	1994	Donaldson torrit modet dft2-8	8	Ultra web		3		Air down flow
133	BH-2	b	1979	Hi Vac	12	Coated bag nylon		36		
136	BH-1	c	1996	Dust Hog	18			12	2.2	Pulse jet
136	BH-2	b	1988	Staclean	28	Singed polyester	16	12	3.17	Pulse jet
136	BH-3	b	1979	WW Sly	16	Polyester	16	24	3.41	Shaking
141	BH-1									
144	BHI-1	b	1990	Halliburton	13	Cotton		12	2.5	Air shaker
144	BHI-3	b	1989	Halliburton	19	Poly-felt	16	12	9.3	Pulse jet
146	BH-1	b	1985	Research Cottrell	30	Cotton polyester		60		
146	BH-2	b	1985	Draco Midel M860	180	Cotton polyester		60		
147	BH-1	b	1996	Sly Dyna Clone	100	Cloth		36		Pulse jet
147	BH-2	b	1989	Pangborn 404	80					Pulse jet
148	BH-1	b		Pangborn Double “CT”					2.1	
148	BH-2	b		Torit TD970					2.1	
150	BH-1	b		Aget		Napped cotton sateen			3.4	Shaking
153	BH-1	b	1966	Pangborn	130	Cotton				Shaking
153	BH-2	b	1973	Sly	192	Cotton				Shaking
153	BH-3	b	1993	W.W. Sly	36	Polyester felt	16		4.4	Pulse air
155	BH-1	c	1999	Farr					1.55	Pulse jet
155	BH-2	c	1998	Farr	6				1.8	Pulse jet
158	BH-1	b	1979	CE Air Preheater	150	Polypropylene	16			Reverse air
158	BH-2	b	1978	Fabripulse	216	Polypropylene	16			Reverse air
158	BH-3	b	1979	Air Preheater	90	Polyester				Pulse jet
16	BH-1	b		Panghorn		Cotton			3.9	
17	BH-1			Micro-Pulsair		Polyester felt			4.95	
17	BH-2			Donaldson		Polyester felt			5.94	
18	BH-1	b		Dust-hog						Pulse jet
184	BH-1	b	1993	Mikropul	64	Polyester				Pulse jet
184	BH-2	b	1995	Wheelabrator	65	Paper				Pulse jet
184	BH-3	b	1993	Mikropul	180	Cloth		48	6.5	Pulse jet
185	BH-1	b	1997	National Turbine	3					Pulse jet

TABLE 17. (continued)

FACID	APCD	Filter type	Install date	Manufacturer	Bags	Filter	Filter weight	Bag life	Ac ratio	Cleaning
186	BH-1	b	1956	Sly		Sateen		60		Shaking
186	BH-2	b	1956	Pangborn	208	Sateen		24		Shaking
186	BH-3	c	1986	Bact	9	Polyester		24	2.3	Pulse jet
187	BH-1	b	1984	Beth Pulse	36	PE600		24	9.56	Pulse jet
187	BH-10	b	1989	WWSLY	28	Polypropylene	16	24	5.6	Pulse jet
187	BH-11	b	1969	Pangborn	30	Sateen		12		Shaking
187	BH-12	b	1969	Pangborn	30	Sateen		12		Shaking
187	BH-2	b	1984	Beth Pulse	56	Peal 601/75		24	9.01	Pulse jet
187	BH-3	b	1984	Beth Pulse	12	PE 600		24	11.03	Pulse jet
187	BH-4	b	1984	Chicago Pneumatic	12	Synthetic felt		24	12.5	Pulse jet
187	BH-5	c	1984	Chicago Pneumatic	9	Synthetic felt		24	12	Pulse jet
187	BH-6	b	1984	Beth Pulse	28	Pe 600		24	12	Pulse jet
187	BH-7	b	1985	DCF Volks	1	Synthetic felt		24	10	Pulse jet
187	BH-8	b	1985	DCE Volks	1	Synthetic felt		24	10	Pulse jet
187	BH-9	b	1989	WWSLY	28	Polypropylene	16	24	5.6	Pulse jet
188	BH-1	b	1980	American Air Filter	132	Polypropylene	16	12	5	Pulse jet
188	BH-2	b	1980	American Air filter	132	Polypropylene	16	12	5	Pulse jet
188	BH-3	b								
189	BH-1	b	1964	Pang Born	600	Cotton	18	24	3.6	Pulse jet
189	BH-2	b	1968	Pang Born	376	Cotton	18	24	3.4	Pulse jet
189	BH-3	b	1968	Pang Born	450	Cotton	18	24	2.9	Pulse jet
19	BH-1 TO BH-3	b		BACT Engineering						
20	BH-1	b	1980	Ultra Industries	64					Pulse jet
20	BH-2	b	1980	Ultra Industries	25					Pulse jet
20	BH-3	b	1986	Peabody	25					Pulse jet
20	BH-4	b	1997	Ultra Industries	25				6.51	Pulse jet
22	BH-1	b	1955	Sly						
23	BH-1	b	1990	Aget	40	Napped cotton sateen	10	60	2	Shaking
23	BH-2	b	1995	Aget	64	Napped cotton sateen	10	60	2.3	Shaking
23	BH-3	b	1996	Ecosystem srl	42	Cotton	16		6.5	Pulse jet
24	BH-1	b	1986	Fuller	168	Polyester	16	48	5.9	Pulse jet

TABLE 17. (continued)

FACID	APCD	Filter type	Install date	Manufacturer	Bags	Filter	Filter weight	Bag life	Ac ratio	Cleaning
26	BH-1	b		Pangborn		Polyester felt	16		3.5	Electric vibrator
27	BH-1	b		Dustex	42	Polyester dacron			6.97	Pulse jet
28	BH-1	b				Polyester felt	16		3.9	
3	BH-1	b		Johnson-March		Polypropylene				Air jet
30	BH-1	b				Polyester			6.25	Pulse jet
41	BH-1	b	1990	Torrit	1	Poly/wool		36		Vibration
42	BH-1	b								
43	BH-1	b	1957	Pang Born	9	Nylon			3.5	Mechanical
45	BHI-1	b	1968	W.W. Sly Mfg. Co.	34	Cotton sateen	10	24	2	Bag shaking
5	BHI-1	c	1990	Steel Craft Corporation	320	Polyester media	16	40	7.41	Pulse jet
51	BH-1	b	1993	Mac	144	Polyester	16	12	7.1	Pulse jet
51	BH-3	b	1993	Dustex	42	Polyester	16	12	7.1	Pulse jet
51	BHI-1	c	1989	Torit	8	Fiberglass		12		Pulse jet
52	BH-1	b	1981	C-E	240	Fiberglass	18.6	12	5.8	Pulse jet
52	BH-2	b	1981	C-E	240	Fiberglass	18.6	12	5.8	Pulse jet
53	BH-1	b	1981	C-E	264	Fiberglass	18.6	12	6.4	Pulse jet
54	BH-1	b				Polyethylene			4.17	Pulse jet
57	BH-1	b	1984	Wheelabrator Frye	150				8.7	Pulse jet
57	BH-2	c	1994	Gulf United	32				1.3	
57	BH-3	b	1984	Ultra	65				3.8	Pulse jet
57	BH-4	b	1987	Ultra	16				6	Pulse jet
58	BH-1	b	1978	Wheelabrator Frye	150				10.6	Pulse jet
58	BH-2	b	1979	Carter Day					5.1	Low pressure
58	BH-3	b	1979	C-E	240	Fiberglass	18.6	12	7.8	Pulse jet
59	BH-1	b		Joy/Flex-Kleen						
60	BH-1	b		Wheelabrator		Polyester			10	Pulse jet
60	BH-2	b		Wheelabrator		Polyester			7.5	Pulse jet
60	BH-3	b		Carter Day		Polyester			4.5	Pulse jet
61	BH-1			Enviro systems		Polyester			7.5	Pulse jet
61	BH-2			Enviro Systems		Polyester			5	Pulse jet
63	BH-1	b	1962	Norblo	216	Cotton-sateen	9	100	5	Air shakers
7	BHI-1	c	1994	Torrit Model DF T2-8	8					
72	BH-1	b	1994	Mac Environmental		Dacron			8	Reverse air
72	BH-2	b	1989	Staclean		Polyester			6.1	Pulse jet

TABLE 17. (continued)

FACID	APCD	Filter type	Install date	Manufacturer	Bags	Filter	Filter weight	Bag life	Ac ratio	Cleaning
72	BH-3	b	1994	Mac Environmental		Dacron			8	Pulse jet
72	BH-4	b	1990	Hoffman Clean Air Systems					3	Pulse jet
72	BH-5	b	1994	Mac Environmental					8.38	Reverse air
8	BH-1	b	1967	Pangborn	80	Polyfelt				Shaking
8	BH-2	b	1982	Mikropul	480	Polyfelt	16		5.7	Pulse jet
8	BH-3	b	1988	Aeropulse	180	Polyfelt	16			Pulse jet
8	BH-4	b	1982	Mikropul	220	Polyfelt	16		5.76	Pulse jet
8	BH-5	b	1979	Pangborn	9	Polyfelt				Shaking
8	BHI-1	c	1983	Mikropul/Tenkay	24	Cartridge			5.88	Pulse jet
81	BH-1	b	1992	Rexon Associates, Inc.	36	Glazed polyester			5.3	Empty collector
83	BH-1	b		Micropul		Polyester			4.5	Air pulse
84	BH-1	b	1992	Bha	48			8		Pulse jet
84	BH-2	b	1982							Manual
85	BH-1	b		Wheelabrator		Polypropylene	16		6.8	
85	BH-2	b		Ultra	16	Polyester			5	
85	BH-3	b		Ultra	24	Felted polyester	16		3.12	Pulse jet
86	BH-1	c	1986	CEA-Carter-Day	72	Polyester felt		12		Pulse jet
86	BH-2	c	1976	Sly	16	Polyester felt		60		Shaking
89	BH-1	c	1978	Pangborn						Pulse jet
89	BH-2	b	1971	Rees Ind. Clean Air		Polyester	16	6	4.2	Pulse jet

TABLE 18. INJECTION FILTERS

FACID	APCD	APCDID	Install date	Manufacturer	Sorbent	Injection rate	Bags	Filter	Filter weight	Bag life	Ac ratio	Cleaning
1	DLS-1	1DLS-1	1996	Procedaire	Hydrated lime	160	507	Nomex		24	2.85	Pulse jet
70	DIFF-1	70DIFF-1	1993		Slaked lime			Gore-tex mem/ pelt			6	Pulse jet
70	DIFF-2	70DIFF-2	1993		Slaked lime			Gore-tex mem/ pelt			6	Pulse jet
77	DLS-1	77DLS-1	1999	Procedaire	Hydrated lime							
124	DIFF-1	124DIFF-1	2000	Ohlmann	86% lime, 14% sodium bicarb.	119	560	P-84	14		3.07	
150	DIFF-2	150DIFF-2	1994	BACT Eng., Inc.	Hydrated lime	165	204	Ryton	16		4.87	Pulse jet
150	DIFF-1	150DIFF-1	1993	BACT Eng., Inc.	Hydrated lime	165	204	Ryton	16		4.87	Pulse jet
151	DLS-1	151DLS-1	1995	Procedaire	Hydrated lime	90			14		2.7	Pulse jet
155	DLS-1	155DLS-1	1998	Interel	Limestone	80	1203	Ryton		24	3.3	Pulse jet

TABLE 19. SCRUBBERS

FACID	APCD	APCDID	Install date	Manufacturer	Scrub type	Scrub liquid	Pressure drop	Lg ratio	Additive	Rate	Units
9	DA-1	9DA-1	1998	Ohlmann	Dry limestone adsorber	None	2		Granular limestone		
13	DA-1	13DA-1	1993	Ohlmann	Dry	Limestone	1.6		Limestone	570	lb/hr
25	SC-1	25SC-1			Impingement wet spray						
31	DA-1	31DA-1	1998	Ohlmann	Dry limestone adsorber	None	2		Limestone	1	tpd limestone consumption
47	DA-1	47DA-1	2000	Hellmich	Dry limestone adsorber	None			Limestone	28	lb/hr?
123	SC-1	123SC-1		Tri Mer		Water					
128	DA-1	128DA-1		BACT Engineering, Inc.	Dry granular lime stone		5		Limestone		
143	SC-1	143SC-1				Water	0.07	10.07			
148	DA-1	148DA-1	1994	Hellmich	Dry cascade limestone chip		3		Limestone high purity CaCO3	50	tons per year added
150	SC-1	150SC-1	1993	Tri-Mer Corp	Cyclonic	Water	8		None		
152	DA-1	152DA-1	2000	Hellmich	Dry limestone adsorber	None			Limestone		
154	SC-1	154SC-1	1995	Carbo-Tech	Wet with 5ft packing	Water	2	10.67	Soda ash	7	gpm
154	SC-2	154SC-2	1982	Interstate brick	Wet	Water	2	3.3	Soda ash	5	gpm
157	SC-2	157SC-2		American Air Filter Co.	Wet centrifugal dust collector	Water		2.5	None		
157	SC-1	157SC-1		American Air Filter Co.	Wet centrifugal dust collector	Water		2.5	None		
180NR	DA-1	180NRDA-1		Ohlmann	Dry limestone adsorber	None			Limestone		

TABLE 20. OTHER AIR POLLUTION CONTROL DEVICES

FACID	Type	APCD	APCDID	Install date	Manufacturer	Other par1	Other par2	Other par3
20	Water truck and water sprinklers	WS-1	20WS-1	1980		water usage, gal per month = 155000		
46	Cyclone	CY-1	46CY-1	1981	Bruning and Federle	Purpose: collect sawdust from dryer		
72	Cyclone	CY-2	72CY-2	1965	Heil	acfm, 20,000	65% efficiency	
72	Cyclone	CY-1	72CY-1	1965	Heil	acfm 15,000	65% efficiency	
73	Cyclone	CY-1	73CY-1	1986	Harzell Ventilating Fan Co Mod	1000 acfm		
75	Dust suppression (foam)	OC-1	75OC-1	1997	Deter			
84	Cyclone	CY-1	84CY-1					
85	Multiclone	CY-1	85CY-1	1980	Zurn	pressure drop 3”		
137	Twin cyclone	CY-2	137CY-2	1986	Carolina Blower	95% efficiency	4” H20	68 degrees
137	Twin cyclones	CY-1	137CY-1	1986	Carolina Blower	95% efficiency	4.0 in. H20	68 degrees
139	Hydroclone	OC-1	139OC-1					
146	Cyclone	CY-1	146CY-1	1985		6 feet diameter	13 feet height	
155	Cyclone	CY-1	155CY-1					

TABLE 21. POLLUTION PREVENTION ACTIVITIES

FACID	Practices
1	• "Spent" lime from scrubber cannot be recycled and is being landfilled. • All other waste raw material, additives, colorants, etc., are re-cycled back into raw material. • All broken or reject brick are crushed into landscape mulch.
2	• All extruder waste recycled to shale stockpile for regrind and reuse. • All cutter waste recycled to extruder for reuse. • All face colorant overflow recycled to shale stockpile for use in new brick. • All waste fired brick crushed for sale as landscaping material or recycled to grinding for use in new brick.
4	• All floor sweepings are added back to the clay body raw material.
5	• Recycles waste heat from the kiln to heat the dryers and to a lesser degree the holding room. • Recycles green brick into the brick body.
6	• Recycles green brick back into the brick body. • Recycles waste heat from the kiln to heat the dryers and to a lesser degree, the holding room.
7	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding room). • Recycles scrap/waste clay back into the brick body. • Recycles green brick back into the brick body.
8	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding rooms). • Recycles floor sweepings and scrap/waste clay back into the brick body. • Recycles material collected from baghouses back into the brick body. • Recycles green brick back into the brick body.
10	• Recycled off-spec brick (grog) into the brick body. • Recycles waste heat from the kiln to heat the dryers.
11	• Green waste recycled back into brick body. • Sand coatings recycled into brick body. • Potential HF emissions calculated are 1.21 lb/ton from mass balance emission factor and test data.
12	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding rooms). • Recycles floor sweepings and scrap/waste clay back into the brick body. • Recycles green brick back into the brick body. • Recycles off-spec brick (grog) back into the brick body
13	• Recycle brick batts by crushing into gorg and putting back into brick body. • Recycle green waste (trimmings) at brick machine back into body. • Recycle waste heat from the kiln to heat the dryers.

TABLE 21. (continued)

FACID	Practices
14	• All floor sweepings are reintroduced to the brick body. • All unfired waste is reintroduced to the brick body. • All processes with Manganese oxide, iron chromite, and barium carbonate are enclosed buildings.
15	• All floor sweepings are reintroduced to the brick body. • All unfired waste is reintroduced to the brick body. • All processes with manganese oxide and barium carbonate are enclosed in buildings.
20	• Recycle used brick and material collected by baghouse back into process. • Send solvents and oils to off-site recycler/waste disposal company. • Water down any open storage piles and unpaved areas.
21	• Prepared clay that is rejected during forming is reground and reused to make brick and tile
23	• Waste brick and tile is crushed and reintroducted into the raw material as gorg. • Waste raw materials such as floor sweepings, waste clay, and baghouse fines are reintroduced into the raw material stream.
24	• Rejects are ground and added to the body. • Ground rejects have also been marketed as a top dressing for landscaping and sports fields. • Dust collector fines are addedback to the body. • Efforts are made to reduce the generation of scrap clay, but when it accumulates a special run is made and sold at a reduced price.
33	• We collect all ash resulting from combustion process and all sweepings from the plant and kiln floors and mix them with the raw clay, thus incorporating them into the brick
38	• Rejected brick (grog) reprocessed as part of the brick body. • Grinding plant fines reprocessed as part of the brick body.
39	• MW-1, FW-1, CTA-1, are in an enclosed building. • Dust is swept up off the floor and recycled.
41	• Limestone added to brick body for SO2 reduction; may reduce HF also. • We reuse reject and discarded materials to reduce solid waste.
42	• Floor sweeping are place into raw materials water drained from air compressors and vacuum pumps are used in pogmill mixing water. • Unfired rejects are re used in raw material. • Fired rejects are used as gravel.

TABLE 21. (continued)

FACID	Practices
43	• All green scrap is reprocessed back into product. • All fired scrap is reprocessed or used or sold for backfill. • Dust collector fines are reprocessed back into raw material. • All floor sweepings from grinding plant are reprocessed back into the raw material.
44	• Recycle of rejected materials.
45	• Reuse of cutter shavings and scraper shavings in pugmill. • Use of extra engobe liquid in pugmill. • Reuse of dust collector (bh-2) fines in coatings
46	• In the making room trim scraps and end-cut scraps feed back to the pug mill. • Green brick losses go back to the grinding plant. • Brick bats are crushed and sold as chet. • Coarse sawdust is sold as mulch. • Metal scraps from equipment repair are sold to scrap dealer.
47	• Chipped, broken and off color brick are crushed and reused as raw material
51	• Green brick recycle back into brick body. • Sand coating recycle back into brick body. • Mold wash water recycled through settling chamber. • Brick batts chipped up for sale to landscaper.
52	• Particulate collected by baghouses is re-cycled into raw materials. • All waste ran material additive, and colorants are also re-cycled. • All broken and reject brick are crushed into landscape mulch.
53	• Particulate collected by baghouse is re-cycled into raw material. • All waste raw material, additive and colorants are also re-cycled. • All broken and reject brick are crushed into landscape mulch.
56	• All waste raw material, additive, colorant, etc., is recycled back into raw material. • All broken or reject brick are crushed into grog and added to raw material.
57	• All waste raw material, additive, colorant, etc. is recycled back into raw material. • All broken or reject brick are crushed into landscape mulch.
58	• All collected particulate, waste raw material, additive, colorants, etc., is re-cycled back into raw material
59	• All waste raw material, additive, colorant, etc. is re-cycled back into raw material. • All broken and reject brick are crushed into landscape mulch.

TABLE 21. (continued)

FACID	Practices
60	• All waste raw material, additive, colorant, etc., is re-cycled back into raw material. • All broken and reject brick are crushed into landscape mulch.
61	• All waste raw material, additive, colorant, etc., is re-cycled back into raw material. • All broken and reject brick are crushed into landscape mulch.
62	• All waste raw material, additive, colorant, etc., is re-cycled back into raw material. • All broken and reject brick are crushed into landscape mulch.
63	• Raw material storage: watering storage piles to prevent fugitive dust. • Kilns: utilize natural-gas fuel, waste heat used to heat dryer.
65	• If at all possible all discarded or rejected materials are re-used. • No APCDs such as baghouses are used.
66	• Throughout the plant, at each manufacturing phase, conveyor belts exist to convey scrap. • Scrap is either returned and reprocessed immediately, or used to build roads, berms, or control stormwater runoff.
71	• Grinding - if dust becomes visible, we add H2O and close doors in buildings.
72	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding rooms). • Recycles floor sweepings and scrap/waste clay back into the brick body. • Solids, collected in the air pollution control devices, are returned to the process.
73	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding room). • Recycles scrap/waste clay back into the brick body. • Recycles green brick back into the brick body. • Recycles waste slurry back into the brick body.
74	• Reuses waste heat from the kiln to heat the dryer (and to a lesser degree, the holding room). • Recycles scrap/waste clay back into the brick body. • Recycles green brick back into the brick body. • Recycles waste slurry back into the brick body.
75	• Using foam suppression system holds fire clay and additives in the process stream rather than collecting the dust in baghouses.
79	• Waste brick are ground into brick chips for sale.

TABLE 21. (continued)

FACID	Practices
81	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding rooms). • Recycles floor sweepings and scrap/waste clay back into the brick body. • Recycles green brick back into the brick body. • Recycles off-spec brick (grog) back into the brick body.
82	• Recycles waste heat from the kiln to heat the dryers and to a lesser degree, the holding room. • Recycles floor sweepings and scrap/waste clay into the brick body. • Recycles green brick into the brick body. • Recycles waste slurry into the brick body. • Recycles off spec brick (grog) into the brick body. • Recycles sand coating into the brick body. • Recycles wash water into the brick body.
83	• Recycled brick bats ground into grog and recycled into brick mix.
84	• Recycled unfired clay to reduce land application. • Recycled fired brick into landscaping brick nuggets. See air permit. • Recycled petroleum contaminated soil into building brick. See air permit. • Recycled ceramic tile into road ballast and grog.
85	• All collected particulate, waste raw material, additive, colorants, etc., are re-cycled back into raw material. • All broken or reject brick are crushed into landscape mulch.
86	• All solid clay waste is reground and used as part of the mixes.
87	• Scrap clay recycle - reused in new products. • Wastewater recycle - water from slurry, steam cleaning and oil/water separators used to pub brick (process water).
89	• Floor sweeping and all mill scrap is reused as brick raw material.
90	• Haul roads from mine to grinding plant are watered to reduce or eliminate dust. • Diesel fuel was eliminated as a backup fuel; instead propane is now used for a backup fuel.
100	• All materials collected in the texturizing area are recycled and utilized in the brick manufacturing process. • CSG utilizes the heat (1800°F- 2000°F) from the kiln zone to dry wet wood received as fuel for the kilns; HF is absorbed into the wood; the wood is then fired in the kiln as fuel. • CSG used the heat from kiln's cooling zone to provide al heat for brick dryers, thereby eliminating any need for fuel use at these sources.

TABLE 21. (continued)

FACID	Practices
101	• All materials collected in the texturizing area are recycled and utilized in the brick manufacturing process. • CSG utilizes the heat (1800°F) from the kiln zone to dry wet wood received as fuel for the kilns; HF is absorbed into the wood; the wood is then fired in the kiln as fuel. • For the sawdust kiln systems, CSG uses the heat from kiln's cooling zone to provide all heat for brick dryers, thereby eliminating any need for fuel use at the brick dryers.
102	• All materials collected in the texturizing area are recycled and utilized in the brick manufacturing process. • CSG utilizes the heat (1800°F-2000°F) from the kiln zone to dry wet wood received as fuel for the kilns; HF is absorbed into the wood; the wood is then fired in the kiln as fuel. • CSG used the heat from kiln's cooling zone to provide all heat for brick dryers, thereby eliminating any need for fuel use at these sources.
103	• All materials collected in the texturizing area are recycled and utilized in the brick manufacturing process. • CSG utilizes the heat (1800°F-2000°F) from the kiln zone to dry wet wood received as fuel for the kilns; HF is absorbed into the wood; the wood is then fired in the kiln as fuel. • CSG uses the heat from kiln's cooling zone to provide all heat for brick dryers, thereby eliminating any need for fuel use at these sources.
104	• Reuse baghouse waste from saw-dust system. • Reuse discarded/rejected materials before firing
118	• Off spec brick is reused as grog. • Raw clay mix optimized to reduce emissions. • Spilled raw materials, colorants, texturants, and floor sweepings recycled into process.
120	• Broken fired ware and unfired reject greenware are added into the raw material feed.
121	• Broken fired ware and unfired reject greenware are added into the raw material feed.
122	• The body composition at this time is composed of 10% fired brick for production purposes.
123	

TABLE 21. (continued)

FACID	Practices
131	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding rooms). • Recycles floor sweepings and scrap/waste clay back into the brick body; recycles green brick back into the brick body. • Recycles off spec brick (grog) back into the brick body.
132	• Recycles waste heat from the kiln to heat the dryers and to a lesser degree, the holding rooms. • Recycles floor sweepings and scrap/waste clay into the brick body. • Recycles green brick into the body. • Recycles off spec brick (grog) into the brick body. • Recycles sand coating into the brick body. • Recycles wash water into the body.
133	• Reuses waste heat from the kiln to heat the dryers (and to a lesser degree, the holding rooms. • Recycles scrap/waste clay back into the brick body. • Recycles green brick back into the brick body; recycles waste powders and filter material back into brick body.
135	• sweeping floors.
136	• All sweepings and mill scrap are reused as brick raw material.
137	• The materials collected from the various cyclones are recycled into the brick body mix.
138	• Reuses waste heat from the kiln to heat the dryers. • Recycles green waste back into the brick body. • Recycles waste slurry back into the brick body. • Recycles floor sweepings back into the brick body.
140	• Waste slugs of clay are reused in pug mill to minimize any return of material to value. • Haul roads from mine to plant are altered to minimize dust. • Diesel fuel was eliminated as a back up fuel; instead, propane is now used as backup fuel when natural gas is curtailed.
141	• All bh-1 material is recycled back into the process. • Clay/shale avg. moisture content of 6% for dust control. • All green, dry, fired scrap is recycled in process. • Quality of the raw materials (clay, shale and others) monitored continuously in ceramic engineering lab to reduce emissions. • Record keeping practices (logs) and maintenance procedures followed for best operating system parameters and controls.
144	• Broken fired ware and unfired reject greenware are added into the raw material feed.

TABLE 21. (continued)

FACID	Practices
146	• Fired tile is sold and shipped. • Green rejected tile is recycled to become part of the mixture for the next run. • Rejected fired tile is crushed, by another company, into a surface covering for baseball diamond infield.
148	• Throughout the plant at each manufacturing phase, conveyor belts exist to convey scrap. • Scrap is either returned and reprocessed immediately, or transferred to a holding area where it is reprocessed later. • Fired brick waste is used to build roads, berms, or control stormwater runoff.
149	• Throughout the plant, at each manufacturing phase, conveyor belts exist to convey scrap. • Scrap is either returned and reprocessed immediately, or transferred to a holding area where it is reprocessed later. • We attempt to recycle 100% of all brick waste. • Material that is not reprocessed is used to build roads, berms, or control water (stormwater) runoff.
153	• Rejected brick and tile are crushed and reused resulting in a reduction of tons mined. • Curtains help control air movement in the grinding and screening area. • The moisture content of clay is kept at the highest rate possible.
154	• Interstate incorporates 10 baghouses for the pupose of reclaiming pollution. • The original flat roof of kiln#4 was replaced with an arched one. • Line #4 scrubber will be replaced with a scrubber similar to Line #3 this year.
155	• Off spec brick material is recycled back into process (sweepings, no waste material). • Wetting to control fugitive dust at various locations. • Recycle process waste water for use in wetting to control fugitive dust. • Deter microforam dust control at grinding building.
158	• Production operations currently reuse 5% fired material. The fired material is mixed in with the raw material during the grinding operations. • Green (unfired) scrap clay is currently not reused, but plans are in progress to find ways of reducing and reusing all green clay and thus eliminate one of the solid material waste streams.
184	• Reuse of all clay scraps. • Dust collector fines recycled from all baghouses. • Reuse of fired scrap into raw material for product.
185	• Recycles all waste glaze and glaze clean-up water back into the body of the tile at the point of extrusion.

TABLE 21. (continued)

FACID	Practices
186	• Fired rejects are recycled as road base building material. • Unfired rejects are recycled back into new production.
187	• All unfired scrap tile is recycled. • All glazed solid waste is used as a flux in floor tile. • All glazed water is used for extrution or recycled for wash up. • No water leaves the plant. • Fired glazed tile is used as foundation fill. • Fired scrap is crushed and used as road fill (gravel replacement or cursched, ground) screened and used as grog.
188	• Recycle reclaim waste heat from TKs to dryers. • Recycle waste bisque tile. • Recycle waste fired tile.
189	• Recycle off-spec bisque. • Recycle off-spec fired tile. • Recycle/reclaim waste heat.

TABLE 22. CONTROL DEVICE MONITORING

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
1	DLS-1	Temperature of inlet and outlet	Continuous	Thermo-couple	Computer program hourly average	None required	Computer program fault alarms; routine inspection (±daily)
1	DLS-1	Lime feed	Continuous	Load cell	Computer program hourly average	None required	Computer program - fault alarms; routine inspection (± daily)
1	BH-1						Routine inspection
1	DLS-1	Pressure drop	Continuous	Gauge	Computer program hourly average	None required	Computer program - fault alarms; routine inspection (±daily)
1	BH-2						Routine inspection
1	BH-3						Routine inspection
3	BH-1	Pressure drop		Pressure gauge			
5	BHI-1	Pressure drop	Daily	Pressure gauge	Manual	Maintenance as needed	Periodic visual inspection and maintenance as needed
7	BH-1	Periodic inspection and maintenance					Periodic inspection and maintenance
8	BH-1						Periodic visual inspection and maintenance as needed
8	BHI-1						Periodic visual inspection and maintenance as needed
8	BH-5						Periodic visual inspection and maintenance as needed
8	BH-2						Periodic visual inspection and maintenance as needed
8	BH-4						Periodic visual inspection and maintenance as needed

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
8	BH-3						Periodic visual inspection and maintenance as needed
13	DA-1	Pressure drop	Daily	Pressure gauge	Manual		Visual inspection of scrubber (monthly)
13	DA-1	Opacity	Daily	Visual			Grease bearings, check fans (monthly) other maintenance as needed
20	BH-1 TO BH-4	Opacity	Daily during normal production days	Visible readings by certified opacity readers	Manually recorded in log book	Recertified every 6 months	
20	BH-1 TO BH-4	Pressure drop	2 times/ week	Pressure gauge	Manually recorded in log book	Calibrate (annually)	Visual inspection of baghouse structure (annually)
20	WS-1	Apparent wetness of storage piles	Daily	Visible reading by plant supervisor			Regular maintenance of water truck and sprinkler system
22	BH-1	Pressure drop	Daily	Pressure gauge			
23	BH-3	Pressure drop	Daily	Manometer	Manual		Bags are visually inspected once/mo. Record of the inspection is kept manually
23	BH-1						BH-1 is cleaned and visually inspected after each day it is in use.
23	BH-2						BH-2 is cleaned and visually inspected after each day it is in use.
24	BH-1	Opacity	Daily	Visual	None	Check for defective bags if dust is visible	
24	BH-1	Pressure drop	Daily	Pressure gauge	None	Pulse bags when less than 0.1	
27	BH-1					Bags cleaned and dried every 6 months	

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
30	BH-1	Opacity		Opacity monitor			
41	BH-1						Visual inspection of baghouse structure
43	BH-1						Internal structural inspection (annual)
45	BHI-1		Semi-annual	Visual inspection	Manual	Clean bags an average of 3 times/shift	Visual inspection of bags semi-annually change bags with hole as required
46	CY-1						Annual internal inspection and logbook kept.
51	BH-1	Pressure drop	Daily	Pressure gauge	Manual	Calibrate yearly	Periodic visual inspection
51	BH-3	Pressure drop	Daily	Pressure gauge	Manual	Calibrate yearly	Periodic visual inspection
51	CY-1						Periodic visual inspection
51	BHI-1	Pressure drop	Daily	Pressure gauge	Manual	Calibrate yearly	Periodic visual inspection
52	BH-1	Pressure drop	Daily	Gauge	Manual		Daily visual inspection or baghouse and stack
52	BH-2	Pressure drop	Daily	Gauge	Manual		Daily visual inspection of baghouse and stack
52	BH-1	Temperature	Daily	Thermo-couple	Manual		Daily visual inspection of baghouse and stack
52	BH-1	Motor amps	Daily	Meter	Manual		Daily visual inspection of baghouse and stack
52	BH-2	Motor amps	Daily	Meter	Manual		Daily visual inspection of baghouse and stack
52	BH-2	Temperature	Daily	Thermo-couple	Manual		Daily visual inspection of baghouse and stack
53	BH-1	Pressure drop	Daily	Gauge	Manual		Daily visual inspection of baghouse and stack

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
53	BH-1	Motor amps	Daily	Meter	Manual		Daily visual inspection of baghouse and stack
53	BH-1	Temperature	Daily	Thermo-couple	Manual		Daily visual inspection of baghouse and stack
58	BH-3	Pressure drop	Periodic	Gauge	Malfunctions only		Daily visual observation for correct operation
58	BH-3	Opacity	Periodic	Ve reading	Malfunctions only		
63	BH-1	Filter media	Monthly	Manually	Manually logged; inspection		Visual inspection of exhaust stack; check filter media for leaks, torn media, or improper installation
63	BH-1	Opacity	Semi-annual	Ringlemann chart	Manually log inspection		Visual inspection of exhaust stack; check filter media for leaks, torn media, or improper installation
63	BH-1	Pressure drop	Quarterly	Magnehelic pressure gauge	Manually logged		Visual inspection of exhaust stack; check filter media for leaks, torn media, or improper installation
72	BH-3						Visual inspection of baghouse structure periodic
72	CY-2						Visual inspection of cyclone structure periodic
72	BH-1						Visual inspection of baghouse structure periodic
72	BH-2						Visual inspection of baghouse structure periodic
72	BH-5						Visual inspection of baghouse structure periodic
72	BH-4						Visual inspection of baghouse structure periodic

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
72	CY-1						Visual inspeciton of cyclone structrue periodic
73	CY-1	Routine inspection and maintenance					Routine inspection and maintenance
75	OC-1	Opacity	Daily	Visual observation			Daily visual inspection of pump and mixing system
81	BH-1	None					Periodic visual inspections and maintenance as needed
83	BH-1	Visual	Periodic		Log book recording	Bags, mortars	Visual, periodic
84	CY-1	None	Periodic	Visual	Log book recording, per a/q permit		Visual and periodic maintenance
84	BH-1	Coal fines in processed coal	Periodic	Visual	Log book recording pe a/q permit	Rotary air lock inspections should coal fines get into processed coal strea	Visual and periodic maintenance
86	BH-2	Pressure drop	Weekly	Pressure gauge	Recorded in computer log		
86	BH-1	Pressure drop	Weekly	Pressure gauge	Recorded in computer log		
101	BH-2	Baghouse inspection	Annually		Logbook		Visual inspection of baghouse structure (periodic)
101	BH-1	Baghouse inspection	Annually		Logbook		Visual inspection of baghouse structure (periodic)
102	BH-1	Baghouse inspection	Annually		Logbook		Visual inspection of baghouse structure (periodic)
103	BH-2	Baghouse inspection	Annually		Logbook		Visual inspection of baghouse structure (periodic)
103	BH-1	Baghouse inspection	Annually		Logbook		Visual inspection of baghouse structure (periodic)

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
104	BH-1	Opacity	None	Visual			Change out bags when necessary
104	BH-2	Opacity		Visual inspection			Change out bags when necessary
105	BH-1	Pressure drop	Once per shift	Vacuum gauge	Log book		
105	BH-2	Opacity	Once per shift	Visual	Logbook		
119	BH-1	Pressure drop	Daily	Magnehelic	Visual inspection by operator during operations		
128	DA-1	Emissions	Annually	Stack test reading			
131	BH-1						Periodic visual inspections and maintenance as needed
133	BH-1	Differential air pressure	Daily				Periodic visual inspeciton of dust collector, change filter periodically, empty pan when full
133	BH-2	Check vacuum gauge					Periodic visual inspection of dust collector, empty hopper when full, check blower periodically
136	BH-1	Pressure drop	Daily	Pressure gauge			
136	BH-2	Pressure drop	Daily	Pressure gauge			
136	BH-3	Pressure drop	Weekly	Pressure gauge			
147	BH-1	Opacity	Daily	Certified observer	Log book		
147	BH-1	Pressure drop	Daily	Pressure gauge	Not recorded		
147	BH-2	Opacity	Daily	Certified observer	Log book		
148	DA-1	Limestone usage	Monthly	Files	SOP 460-465		

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
148	DA-1	Pressure drop	Hourly	Operator log	Maintained according to is09000 work instruction		
148	DA-1	Peeling drum timer setting	Weekly		Operator log		
148	DA-1	Limestone specification	Per delivery	ISO purchasing procedures SOP460-465	SOP 460-465		
153	BH-2	Opacity	Daily	Visual	None	Na	Visual inspection yearly
153	BH-1	Opacity	Daily	Visual	None	Na	Visual inspection yearly
153	BH-3	Opacity	Daily	Visual	None	Na	Visual inspection yearly
154	SC-2	Quenchflow	Daily		Form updated		
154	SC-2	Flow	Continuous	Automatic	Form updated		
154	SC-1	Ph	Continuous	Automatic sensor	Form updated		
154	SC-2	Differential pressure drop	Daily	Magnehelic	Form updated		
154	SC-1	Differential pressure drop	Daily	Magnahelic	Form updated		
154	SC-1	Temperature	Continuous	Automatic	Form updated		
154	SC-2	Ph	Daily	Handheld meter	Form updated		
154	SC-1	Flow	Continuous	Automatic	Form updated		
155	001	Pressure drop					
155	002	Pressure drop					
155	005	Pressure drop					
184	BH-1	Opacity		Visual	None	None	Visual inspection annually
184	BH-2	Opacity		Visual	None	None	Visual inspection of bags monthly
184	BH-3	Pressure drop	Daily	3 to 5 wg	None	Change as required	Visual inspection annually

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
184	BH-3	Opacity		Visual	None	None	Visual inspection annually
186	BH-2	None					Visual inspection of baghouse and exhaust stream
186	BH-1						Visual inspection of baghouse and exhaust stream
186	BH-3	None					Visual inspection of baghouse and exhaust stream
187	BH-8	None					Visual inspection of bags, baghouse and exhaust stream
187	BH-9	None					Visual inspection of bags, baghouse and exhaust stream
187	BH-10						Visual inspeciton of bags, baghouse and exhaust stream
187	BH-3	None					Visual inspeciton of bags, bag housing and waste stream
187	BH-11	None			Replacement of parts and bags		Visual inspection of bags, bag housing and exhaust stream
187	BH-12	None			Replacement of parts and bags		Visual inspection of bags, bag housing and exhaust stream
187	BH-6	None					Visual inspection of bags, baghousing and exhaust stream
187	BH-1	None					Visual inspection of bags, bag housing and waste stream
187	BH-5	None					Visual inspection of bags, bag housing and waste stream
187	BH-7	None					Visual inspection of bags, bag housing and exhaust stream
187	SC-1	None					Check collector and add fresh water. Visual inspection

TABLE 22. (continued)

FACID	APCD	Parameter monitoring	Monitoring frequency	Device	Record	Equipment other monitoring	APCD other monitoring
187	BH-2	None					Visual inspection of bags, bag housing and waste stream
188	BH-2	Pressure drop	Daily	Magnehelic	Manual		Visual inspection quarterly
188	BH-1	Pressure drop	Daily	Magnehelic	Manually recorded		Visual inspection quarterly
188	BH-2	Opacity	Daily	Visual		Visual check quarterly	Visual
188	BH-1	Opacity	Daily	Visual		Visual check quarterly	Visual
189	BH-3	Pressure drop	Daily	Manometer		Fluid manometer calibrate as needed	Visual inspection of structure & bags monthly
189	BH-2	Opacity	Daily	Visual		Fluid manometer calibrate	Visual inspection of structure & bags monthly
189	BH-2	Pressure drop	Daily	Manometer		Fluid manometer calibrate as needed	Visual inspection of structure & bags monthly
189	BH-1	Opacity	Daily	Visual		Fluid manometer calibrate as needed	Visual inspection of structure & bags monthly
189	BH-1	Pressure drop	Daily	Manometer		Fluid manometer calibrated as needed	Usual inspection of structure & bogs monthly
189	BH-3	Opacity	Daily	Visual		Fluid manometer calibrate	Visual inspection of structure & bags monthly

TABLE 23. HAPS FROM OTHER PROCESSES AT THE FACILITY, PART 1

FACID	Source	SIC	HAP 1	HAP 1 Emissions	HAP 2	HAP 2 Emissions	HAP 3	HAP 3 Emissions	HAP4	HAP 4 Emissions	HAP 5	HAP 5 Emissions
6	Mining	3251										
6	Vehicle maintenance & refueling	3251										
7	Vehicle maintenance and fueling	3251										
8	Mining	3251										
11	Vehicle refueling	3251										
11	Quality control testing lab	3251										
13	Quality control testing laboratory	3251										
13	Vehicle maintenance and refueling	3251										
19	Mining	3251										
20	Gasoline storage and refeuling											
20	Heat treat of steel using natural gas fired round											
20	Concrete block manufacturing	3271										
23	Mining	3251										
25	Mining	3251										
42	Shale Mining	3251	Trace metal		Manganese compounds							
45	Mining	3251										
47	Raw materials purchased, delivered to the plant by rail/truck											

TABLE 23. (continued)

FACID	Source	SIC	HAP 1	HAP 1 Emissions	HAP 2	HAP 2 Emissions	HAP 3	HAP 3 Emissions	HAP4	HAP 4 Emissions	HAP 5	HAP 5 Emissions
47	Up/1,000 gal diesel fuel stored for use at/plant											
51	Quality control lab	3251										
51	Vehicle maintenance	3251										
51	Mining clay and shale	3251										
58	Concrete & cinder block manufacturing	3273	PM	4.55								
64	Mining											
71	Mining		Trace metals	0.1								
72	Vehicle maintenance	3251										
72	Quality control lab	3251										
87	Mining & Hauling	3251										
88	Mining	3251										
104	Mining	1459	Chromium compounds	0.001	Cobalt compounds	0.001	Lead compounds	0.001	Manganese compounds	0.001	Nickel compounds	0.001
105	Jointing		Organic HAPs	0.22								
106	Jointing		Methyl ethyl ketone	0.5	Toluene	1.2						
108	Jointing		Methyl ethyl ketone		Toluene							
118	Mining											
119	Mining Clay											
123	Pipe priming polyurethane jointing		Xylenes (isomers and mixture)	0.285	MDI							
134	Mining											

TABLE 23. (continued)

FACID	Source	SIC	HAP 1	HAP 1 Emissions	HAP 2	HAP 2 Emissions	HAP 3	HAP 3 Emissions	HAP4	HAP 4 Emissions	HAP 5	HAP 5 Emissions
142	Polyester “O” ring joints		Dimethyl phthalate	0.0002	Methyl ethyl ketone	4.201	Mixed amines	0.014	Styrene	0.0245	Cobalt compounds	0.0004
150	Parts washing											
158	Mining											

TABLE 24. HAP EMISSIONS FROM OTHER PROCESSES AT THE FACILITY, PART 2

FACID	Source	HAP 6	HAP 6 Emissions	HAP 7	HAP 7 Emissions	HAP 8	HAP 8 Emissions	HAP 9	HAP 9 Emissions	HAP 10	HAP 10 Emissions	HAP 11	HAP 11 Emissions	HAP 12	HAP 12 Emissions
6	Mining		0		0		0								
6	Vehicle maintenance & refueling		0		0		0								
7	Vehicle maintenance and fueling		0		0		0								
8	Mining		0		0		0								
11	Vehicle refueling		0		0		0								
11	Quality control testing lab		0		0		0								
13	Quality control testing laboratory		0		0		0								
13	Vehicle maintenance and refueling		0		0		0								
19	Mining		0		0		0								
20	Gasoline storage and refeuling		0		0		0								
20	Heat treat of steel using natural gas fired round		0		0		0								
20	Concrete block manufacturing		0		0		0								
23	Mining		0		0		0								
25	Mining		0		0		0								
42	Shale Mining		0		0		0								
45	Mining		0		0		0								
47	Raw material purchased, delivered to the plant by rail/truck		0		0		0								
47	Up/1,000 gal diesel fuel stored for use at/plant		0		0		0								
51	Quality control lab		0		0		0								

TABLE 24. (continued)

FACID	Source	HAP 6	HAP 6 Emissions	HAP 7	HAP 7 Emissions	HAP 8	HAP 8 Emissions	HAP 9	HAP 9 Emissions	HAP 10	HAP 10 Emissions	HAP 11	HAP 11 Emissions	HAP 12	HAP 12 Emissions
51	Vehicle maintenance		0		0		0								
51	Mining clay and shale		0		0		0								
58	Concrete & cinder block manufacturing		0		0		0								
64	Mining		0		0		0								
71	Mining		0		0		0								
72	Vehicle maintenance		0		0		0								
72	Quality control lab		0		0		0								
87	Mining & Hauling		0		0		0								
88	Mining		0		0		0								
104	Mining		0		0		0								
105	Jointing		0		0		0								
106	Jointing		0		0		0								
108	Jointing		0		0		0								
118	Mining		0		0		0								
119	Mining Clay		0		0		0								
123	Pipe priming polyurethane jointing		0		0		0								
134	Mining		0		0		0								
142	Polyester “O” ring joints	diethylene glycol	0.0603	n,n. dimethyl aniline	0.00003	Aniline	0.00002	Toluene	0.007	Xylenes (isomers and mixture)	0.014	Ethyl benzene	0.007	Tetrachloro ethylene	0.007
150	Parts washing														
158	Mining														

TABLE 25. OTHER INFORMATION

FACID	Other information
1	Chemical analysis of shale has shown fluorine content ranging from 694 to 1,132 ppm.
3	Plant is not currently operating and has not operated since 1995.
5	Propane back-up fuel; HF mass balance: buff body--0.72 lb/ton, red--0.92 lb/ton
9	Facility will install a $1 million scrubber (to control HF from 2 tunnel kilns) by December 1998 due to State regulations. Rick Floyd was hesitant to send a copy of the test report but he provided some information about it. The stack test was preformed by Davis and Floyd out of Greenwood, SC (contact: Brian Toth). They were pushing 24 cems/day/kiln loaded with 54000 sbe/car. There were 3 or 4 samples taken out each of two kiln one where flashing was done one with no flashing. Rick Floyd took the worst of those numbers for the emission factor given.
10	Fluorine green -0.033% fired-0.006% Chlorine green-.006 fired-0.00%
12	Fluoride analysis of formed brick Dried (ppm): 913, 471, 348, 637 Fired (ppm): 94, 98, 34, 42. This yields an average of 1.11 lb HF emitted per ton.
13	95 and 93 test information is not used because these test were run when the plant manufactured a different brick type and production info. is not readily available. EF data is provided for scrubber PM: .455 lbs/ton SC-1 changed to DA-1
19	Kiln fuel is landfill gas and natural gas at a volume ratio of 3.33:1 (overall) Kilns 1 and 2 us 90% landfill gas. Kilns 3 and 4 use 10 to 15% land fill gas.
20	Shift = 4, No. of employees = 2, Hours per shift 9.5 (6 a.m-3:30 p.m), days per year = 365. Have not used glazes or colorants for over two years and before that use was insignificant.
21	Clay sample: compound F Cl K2O Na2O SO3 MgO CaO Al2O3 Fe2O3 SO2 wt% .05 .03 1.80 .62 7.9 2.6 13.4 15.4 6.04 5.2
23	Secondary SIC code: 3253 -ceramic wall and floor tile.
25	Given production rates are for 1997.
26	Given production rates are for 1997. Pyrohydrolysis results are Dried (ppm): 454; Fired (ppm): 214. This yields an emission rate of 0.51 lbs/ton HF.
27	Given production rates are for 1997.
28	Given production rates are for 1997. Stack test showed 1.16 lbs HF per fired ton of brick. HF mass balance tests showed an average emission rate of 1.13 lbs/ton with a high value of 1.19 lbs/ton.

TABLE 25. (continued)

FACID	Other information
31	Plant is planning on bringing a new packed tower adsorber on-line in early September, 1998 for several weeks. The plant will then shut down the adsorber until January 1999, at which point the unit will be "officially" brought on-line. The unit is being installed in order to meet State fenceline HF concentrations. The adsorber uses 4-6 mm limestone and handles roughly 50,000 ACFM (30,000 SCFM) from the kilns. The exhaust gas temp. is about 460 F. Production data is from 1997. Fluorine analysis included, summarized below: Plant 2: Dry shale 494.9 Plant 4 Dry shale 301.5 Plant 2: dry kaolin 374.5 Plant 4: dry kaolin 223.5 Plant 2: dry kaolin 347.7 Plant 4: dry kaolin 341.6 Plant 2: fired shale 450.8 Plant 4: fired shale 91.8 Plant 2 fired kaolin 171.4 Plant 4 fired kaolin 99.7 Plant 2 fired kaolin 221.4 Plant 4 fired kaolin 81.5 Plant 4 unfired brick 289.2 Plant 4 fired brick 98.9 % difference (ppm) Plant 2 8.9% (44.1ppm) Plant 4 70% (209.7ppm) Plant 2 54% (203.1ppm) Plant 4 55% (123.8ppm) Plant 2 36% (126.1ppm) Plant 4 76% (260.1ppm) Plant 4 66% (190.3ppm)
32	Fluorine-test included for unfired raw material on a fired weight basis banknight shale--550 ppm F kaolin--363 ppm F river bottom clay--667 ppm F hicks shale--325 ppm F

TABLE 25. (continued)

FACID	Other information
34	Fluorine mass balance tests summarized below: shale/clay sample HF (lb/ton) 1 0.93 2 0.91 3 0.40 4 0.67 5 0.84 Average 0.75 lb/ton
41	Ochre--2 to 35% MnO2 Iron oxide (5114)--10 to 16% Cr
43	Use up to 15% petroleum-contaminated soil. Table One based on purchases, not usage.
45	Plant included MSDS for Zircon flour, probably used as a coating, but no information is given as to its use. It has not been included in the body of the ICR.
46	Kiln exhausts to atmosphere and to the sawdust dryer during normal operations. Moisture content of raw clay/shale is 17%.
48	No. 2 fuel oil used as kiln back-up fuel
49	Nos. 2 and 6 fuel oil are used as kiln back-up fuel
50	Typically, plant is shut down for about 60 days during the winter. Otherwise, kiln and dryer operate continuously.
54	All waste raw material, additive, colorant, etc., are re-cycled back into raw material. All broken and reject brick are crushed into landscape mulch.
55	All waste raw material, additives, and colorants are re-cycled back into raw material.
56	Composite mix has F content of 493 ppm. Fired mix has F content of 99ppm. Kiln #2 is identical to tk-1 but is not operable at this time, though it is included in permit.
57	Fluorine tests on shale show range of 240-1,057 ppm. Changes made by MRI in Table 5 emission factors are based on emission factors developed from EPA emission test at General Shale. No additional test data was provided by General Shale to support the numbers originally shown in Table 5.
59	Yellow shale analysis available for SO3, CACO3, MgCO3, Fe2O3, Al2O3, SiO2, K2O, Na2O
61	Shale fluorine content ranges from 419-2,341 ppm.
63	Barium Carbonate (this material provides white color and replaces HAP containing materials which would provide white color, however we are uncertain of those specific HAP-containing materials).

TABLE 25. (continued)

FACID	Other information
64	Coal is used as backup fuel for tk-1 and tk-2; TK-2, DC-3 and DC-4 are not in use but could possibly be used later if volume warranted.
65	A total F test was conducted on the day previous to the HF stack test. it determined a 0.68 lb/ton emission rate.
66	HAP content of clay and shale summarized below: Clay Shale Mn3O4 0.11 0.06 Cr2O3 0.02 0.02 ZrO2 0.04 0.03
67	Production given is 1997 Pyrohydrolysis for HF shows: 107 ppm unfired ground brick 11 ppm fired ground brick
70	Recycled lime from control device is mixed with the raw material and fired into the product. There is no waste from the system.
72	Some of the kiln exhaust passes through the sawdust dryers; the rest exhausts through an uncontrolled stack.
73	Mass balance from samples taken during 8/96 emission test Kiln 1: 0.95 lb/ton (66% higher than Method 13B) Kiln 2: 1.12 lb/ton (303% higher than Method 13B) A 1995 Emission test on one of the kilns (not specified) showed about 0.76 lb/ton.
74	Propane is used as backup fuel for the tunnel kiln.
77	Production records from 1997. Test report not provided; requested, but not available.
80	Test data provided is from other brick kilns.
81	Propane used as a backup fuel. There are 2 flow charts for plant 42 (extruded and woodmold) included.

TABLE 25. (continued)

FACID	Other information
84	The HF emission factor in Table 5 was calculated using the average HF emission rate for the attached emission test (4.28 lb/hr) divided by the average hourly production of 77,000 ton/yr divided by 8,232 hr/yr (see pg. 54 of ICR). Annual emissions of other HAPs are provided, based on a chemical analysis of the contaminated soil that is used by Cunningham Brick. These emissions are shown below. Contaminant -- lbs/yr from contaminated soil acetone--0.26 benzene--0.24 ethylbenzene--14.91 methylene chloride--0.06 tetrachloroethene--0.68 toluene--18.29 xylene (total)--338.79 barium -- .07 bis(2-ethylhexyl)phthalate--4.23 di-n-butyl-phahalate--9.91 fluoranthene--9.06 fluoroene--1.17 2-methylnaphthalene--27.61 naphthalene--14.05 phenanthrene--15.19 pyrene--0.35 Total = 454.87
85	The composite mix has been analyzed for fluorine, with results from 588 - 823 ppm.
86	There is a preheater listed separately with an operating temperature of 500-900F, heat input of 12.3MMBtu/hr, which is belevied to be a zone of the TK-1 because they share a stack.
87	Secondary SIC: 3151 Hammer mill (grog crusher) has opacity readings taken hourly, 5% accuracy, recertified every 6 months.
88	Scrap clay recycling, waste water from slurries, steam clean recycling.
91	The production capacity is based on permit restriction.
92	TRI report 250 lb Mn released in 1995.
99	TRI report Mn -- 250 lbs air fugitive emissions.
101	Data from TK-1 was from 1997, as it was not fully operational through 1996.

TABLE 25. (continued)

FACID	Other information
102	Analysis of petroleum contaminated soils Average of 20 contaminated soil samples is below. More data in the ICR: Arsenic -- 550 ppm Cadmium 1.1745 ppm Lead -- 12.83 ppm Mercury -- .0222 ppm Fluorides -- 378 ppm
103	No contaminated soils were used in 1996. A plant representative indicated that this practice is being phased out. Analysis of Petroleum contaminated soil present in ICR. Not entered into Other Information because there is no guarantee that petroleum soils will be used.
105	Comment: Can-Clay suggests that the MACT floor be subdivided into glazed and non-glazed subcategories.
109	The jointing process attaches a mission coupling, a non HAP emitting process. It is equipped however to apply polyurethane which would emit toluene and MEK.
112	Total Raw Material Mixes raw material analysis exists in other table. (F: Clay/Clay ICRs/Belden468rawmats.wpd)
113	Propane is used as backup fuel for the kiln.
114	reuse of scrap/waste clay.
116	There was a temp. range given for tunnel kiln tk-1 of 1940 F to 2260 F.
117	Average stack height off roof is three feet.

TABLE 25. (continued)

FACID	Other information
118	Flouride and chloride determination of individual clay samples adams-fluoride 136, chloride-9 malcolm fluoride 256, chloride-9 riddlesperger fluride 191, chloride-23 gibson fluoride 202, chloride-22 houston fluoride 207, chloride-36 jennings/baxter fluoride 378, chloride-5 williamson fluoride 103, chloride-3 Hf and HCL data calculated for tk-1 based on 50% body retention HF=0.174 lb/ton, HCL=0.029 lb/ton Other contact: Luis Vieregge, Operations (903) 489 1331 Production is from September 96 thru August 97 Heat input based on kiln usage monitoring, portioned at 23.15% (TK-1), 53.7% (TK-2), 23.15%(TK-3) with continuous kiln operation and 5 down days per year per kiln. Continuous Process Rate for Dryers: TXC annual fired tons x % of production (DC-1=18.52, DC-2=53.7, DC-3=27.78)/8640 hrs. Assumes throughput based on production controls continuos operation w/5 down days/year.
122	lubricant is assumed to be the same lubricating oil as used in other brick plants with a density of 7.43 al/gal. #2 fuel oil is used as back-up fuel for the kiln this fuel provides 13.8 mm btu/hr. The body composition at this time is composed of 10% fired brick for production purposes. Total fluoride analysis mass balance springfield clay/shale dried-842 +/- 20ppm, fried +- 17 ppm courtland red clay dried 652+- 16 ppm, fried 443 +- 12 ppm courtland buff clay dried 597 +- 15 ppm, fried 399+- 12 ppm sleepy eye clay T dried 559 +- 15 ppm, fried 339 +- 11 ppm sleepy eye clay kaolin B dried 578 +- 15 ppm, fried 375 +- 12 ppm morton buff clay dried 756 +- 17 ppm, fired 553 +- 15 ppm
123	The resin, MDI, and other chemicals used in the polyurethane process are kept in sealed tanks, with no emissions. They are piped (1/2" tubing) to a mixer, where they are mixed and then extruded. They cure within 2 minutes as an epoxy. Little emissions is expected from these. The beehive "stack" test was actually mistakenly performed at the base of the stack, so its data is not being used.

TABLE 25. (continued)

FACID	Other information
124	dry paver brick total sulfur 0.041% chloride 62.9ppm fired paver brick total sulfur 0.007% chloride 4.4ppm dry wt. 80.5 fired wt.-76.5 difference 4.5, 80.5 divide 4.5 =5.6% weight lost pover brick (dry) error+/- 15, 428 ppm pover brick (fired) error+/- 14, 384 ppm
128	sc-1 changed to da-1
129	TRIS reports 250 lb manganese a year released.
132	Use propane gas as back-up fuel.
133	Pink stain consists of 85-95 wt% aluminum and 6-10 wt% manganese. Blue stain consists of 40 wt% cobalt. Propane is used as a backup fuel (data given) A. Heat input for tk-1; 8 MM btu/hr from natural gas, 12.5 MM btu/hr from sawdust heat input for tk-3 20 MM btu/hr from natural gas, 31.2 MM btu/hr from sawdust. Production rate during the stack tests are as follows: tk-2 -- 10.1 tons/hr. Tk-3 (9/10/91) -- 18.9 tons/hr; tk-3 (11/8/94) -- 18.8 tons/hr.
134	Production and raw material usage are from 1997. S-2,dc-3, and tk-3 are all new proposed equipment

TABLE 25. (continued)

FACID	Other information
135	contaminated clay HAP component list: 1,1,2,2 tetrachloroethane 1.23e-02 1,1,2 trichloroethane 0.012254 1,1,2 trichlorobenzene 8.17e-05 1,2 dibromo-3-chloropropane 1.71e-07 1,3 dichloropropene 9.29e-06 1,4 dichlorobenzene 8.99e-05 2,4,5 trechlorophenol 0.002278 2,4,6 trichlorophenol 5.13e-05 2 chloronaphthalene 4.10e-05 2 methylnaphthalene 0.000366 3,3 dichlorobenzidine 8.13e-05 4,6 dinitro-o-cresol 0.000206 acenaphthalene 8.02e-05 acrolein 0.037017 acrylonitrile 0.037017 arsenic 0.002636 benzene 0.050411 benzoanthracene 4.01e-05 benzofluoranthene 4.01e-05 benzoperylene 4.01e-05 benzopyrene 4.01e-05 benzyl butyl phthalate 4.01e-05 bromoform 0.012254 cadmium 0.000868 carbon disulfide 0.012254 carbon tetrachloride 0.012255 chlorobenzene 0.015168 chloroform 0.012525 chromium 0.003582 chrysene 4.01e-05 dibenzacridine 4.01e-05 dibenzofuran 4.01e-05 dibutyl phthalate 8.02e-05 ethyle chloride 0.046766 ethylbenzene 0.0802 ethylene dibromide 1.22e-02 ethylene dichloride 0.011523 ethylidene dichloride 0.002376 fluoranthene 4.01e-05 fluorene 4.01e-05 hexachlorobenzene 0.000121

TABLE 25. (continued)

FACID	Other information
137	The product recovery cyclone on the sawdust dryer DS-1 is a 1992 emtrol w/6 inch pressure drop which operates at 150. Saw dust dryer ds-2 is not on-line because tk-3 tk-4 are now fired with natural gas, backup fuel oil. The dryer is still permitted. Tk-1 and tk-2 are fired primarily with sawdust. Tk-1 used natural gas to provide about 0.28 mm btu/hr and tk-2 uses natural gas to provide about 0.20 mm btu/hr. An experimental brick with 2% limestone was fired and a stack test performed. The brick was unacceptable as a face brick and the HF emissions rate was 0.45 lb/ton. Additional HF test data for pink pavers in tk-5 show HF-0.52 lbs/ton, HCI 0.12 lbs/ton Info on product recovery cyclone: installed 1992; manufacturer Emtrol; pressure drop -- 6 inches of water; temperature -- 150 degrees.
138	Production data provided for 1997. Yellow body stain contains HAPs Chromium III and Antimony. Mass balance shows release of 94% of fluorine original concentration is 274 ppm. Facility used 76000 tons of clay in 1997. Facility processed 20.8 tons of fluorine. Assuming 94% release as HF,20.8x0.94x20/19=20.6 tons HF/yr. Quality control testing lab exists. No emission estimate available.
139	The control device on the crushing/screening operation is a tank of water which the air is pushed through.
141	Most data from 1997 notably sections II, III, IV.
142	Production data is from 1997. 615.46 tons of polyester O-rings were produced in 1997.
143	From TRIS, 1995 data, Cr-fugitive-250 lbs., Mn-fugitive-750 lbs
144	1996 clay use and grog use are very high compared to total brick production
145	Some numbers are projected from installation and manufactures data because it was not run/in existence in 1996.
146	The kilns fire at a faster rate than most - less residence time for the roofing tile at high temperature. The fastest kiln has a residence time of 80 min. - the slower runs at 120 min. This is not a low profile kiln; it has 4 levels. The shuttle kiln (pk-1) has a process rate of 0.45 tons per hour. This is believed to be the kiln capacity (tons) divided by the cycle time (hrs.)
147	Secondary fuel for kiln is propane. Brick tumbler used to give brick a used appearance
148	The baghouse on the extruding line has one pick-up point at the inlet to the brick machine and another on the sandblasting application. SC-1 changed to da-1

TABLE 25. (continued)

FACID	Other information
149	The production capacity as listed could be limited by the Title V permit. Market forces are unlikely to permit such production. The shuttle kiln has been torn down. Propane is used as the back-up fuel for TK-1 and is used about 1 percent of the year. TK-2 has not operated since 1989-90. Extensive analysis of raw material provided.
150	Injection rate calculated as follows: Wt of brick per car (lb) (generally 48,000) x % sulfur in raw material divided 100 X2X% sulfur released when brick are fires divide 100 x number of cars through kiln per day divide 24 hr/day x 1.6 (stockiometric) x 1.5 (safety factory).
151	Recovery of feedstock: 350.4 tons/yr. Information on Diff-1: Includes a conditioning drum/ribbon mixer which sprays lime with water through fog nozzles increasing its reactivity to SO2. Compliance test results show 70% SO2 removal and 95% removed of HF and HCL. Stack test data for the cooling stack provides the following info: height = 28 ft; square area = 7 ft^2; actual gas flow rate = 27500 acfm; gas flow rate at standard conditions = 16000; gas moisture content = 2.2%; gas oxygen content = 21%; gas temperature = 420F; HF = 0.009 lb/ton; HCl = 0.0127 lb/ton; PM = 0.11 lb/ton; VOC = 0.017 lb/ton. Production is from 1997.
151	Stack test data for the cooling stack provides the following info: height-28ft. Square area - 7 ft2, actual gas flow rate-27500 acfm; gas flow rate at standard conditions-16000; gas moisture content -2.2%; gas oxygen content-21%; gas temperature-420 f, HF-0.009 lb/ton; HCL-0.0127 lb/ton; PM-0.11 lb/ton; VOC-0.017 lb/ton. Production is from 1997.
153	Production capacity is stated as if that item composed 100% of production. Total production capacity of facility is not the sum of production capacity for each item.
155	Baghouses are newly installed so there is no information available yet.
157	The number of employees is only an approximate number and the total number of employees is a mean value of a range. Petroleum contaminated soil usage is reported as 40 tpy, but the facility has not used any contaminated soil for a year and a half. The 40 typ is assumed to be a permitted amount.
184	40CFR60 Subpart OOO, 4 sources F004 (raw material receiving), P001 (primary crushing and storage), P012 (secondary grinding, and screening).
188	This facility used “chemical flashing” rather than glazing.
189	This facility used a process called “chemical flashing” to apply shading highlights to the surface of tile. “Flashing” is defined as a process/method by which water is used as a vehicle to transfer Mn or Co to the tile surface for coloring/shading effect.

TABLE 26. FLUORIDE ANALYSIS

FACID	Description	Dried	Fired
5	shale	603	166
6	shale	679	339
10	clay	270	
10	clay	330	60
11	clay	722	116
11	kaolin/shale	686	110
12	clay	913	
19	clay	362	66
21	raw clay	500	
26	brick	454	214
27	brick	323	139
31	shale	494.9	450.8
31	kaolin	347.7	221.4
31	kaolin	374.5	171.4
31	brick	289.2	98.9
31	shale	301.5	91.8
31	kaolin	341.5	81.5
31	kaolin	223.5	99.7
31	kaolin	394	69
32	shale	325	
32	clay	667	
32	kaolin	363	
32	shale	550	
34	clay/shale	368	49
34	clay/shale	437	40
34	clay/shale	221	33
34	clay/shale	475	44
34	clay/shale	507	66
49	raw 8 mesh	436	
49	raw	390	
51	clay	481	
51	shale	418	
51	brick	457.3	107.2

TABLE 26. (continued)

FACID	Description	Dried	Fired
51	brick	520	99
51	brick	486	135
51	shale	605	
56	brick	493	99
57	shale	240	
57	shale	1057	
60	shale (old supply, no longer used)	1945	
61	shale	2341	
61	shale	419	
67	clay	107	11
73	schist/shale	499	72
73	schist/shale	616	74
73	schist/shale	548	69
73	schist/shale	604	82
78	clay	514	104
78	brick (80% clay)	562	163
78	brick (80% clay)	614	122
78	shale	594	227
79	clay	946	246
79	clay	884	247
79	clay	940	327
79	clay	901	232
79	clay	898	336
81	alluvial clay	348	56
81	alluvial clay	454	84
85	brick	823	
85	brick	588	
89	shale	400	
91	clay	400	50
113	clay	843	300
113	clay	794	266
113	clay	820	250

TABLE 26. (continued)

FACID	Description	Dried	Fired
113	clay	739	283
113	clay	798	284
114	clay	88	49
118	clay	256	
118	clay	202	
118	clay	191	
118	clay	136	
118	clay	103	
118	clay	378	
118	clay	207	
122	clay	597	399
122	clay	756	553
122	clay	559	339
122	clay	578	375
122	clay	652	443
122	clay/shale	842	721
124	shale	428	384
138		274	16
146	clay	1117	978
149	Clay	580	52
153	Fire clay (72.2=dried-fired (not raw))	72.2	0
154	Powell Gray	500	
154	Clinton Tile	700	
154	black shale	200	
154	Jim Gay Grey	1100	
154	Montello	1200	
154	Salty Five ?	300	
154	Good Five ?	300	
154	Henefer Red	200	
159	Clay	865	144
159	Clay	808	133

TABLE 27. TEST REPORTS

FACID	Source	Equipment ID	Control device	Entire report?	Test ID	Comments	Date	Raw material	Fuel type (test)
1	tunnel kiln	tk-1	us-2	Yes	1-4a	Evergreen Group test: output reported as 8.325 tons brick/hr. Coal usage 8.2 tons/day. Emissions converted to lb/ton basis.	2/1/95	shale	Coal/natural gas
1	tunnel kiln	dc-2	us-3	Yes	1-4b	Evergreen Group test: output reported as 8.325 tons brick/hr. Coal usage 8.2 tons/day. Emissions converted to lb/ton basis.	2/1/95	shale	Waste heat
1	tunnel kiln	TK-2	DIFF-1	Yes	1-63	Ramcon test -- Source unidentified but is assumed TK-2 because there are inlet and outlet data. Push rate given as 12.45 tons/hr. 584 lb coal used/hour	5/21/97	shale	Coal/natural gas
11	tunnel kiln	tk-1	us-3	No	11-11		1/23/97		Natural gas
13	dryer	dc	us	No	13-18b		1/7/92		
13	tunnel kiln	tk-1	da-1	No	13-17		3/1/95		Natural gas
13	tunnel kiln	tk-1,tk-2	da-1	Yes	13-16		6/1/95		Natural gas
13	tunnel kiln	tk-2	us	No	13-20		4/9/92		Natural gas
13	tunnel kiln	tk	us	No	13-18a		1/7/92		Natural gas
13	tunnel kiln	tk-1,tk-2	da-1	Yes	13-15		2/15/96		Natural gas
13	tunnel kiln	tk-2	da-1	No	13-17		3/1/95		Natural gas
13	tunnel kiln	tk-2	us	No	13-19		6/2/93		Natural gas
23	tunnel kiln	tk-3	us-3	No	23-62	Clemson	6/6/93		Natural gas
31	tunnel kiln	tk-1	us-5	Yes	31-51b	AP-42, clemson	6/15/93		Coal
31	tunnel kiln	tk-4	(not tested) da-1	Yes	31-3	Test performed before control device installation	4/22/93		Natural gas
31	tunnel kiln	tk-4	(not tested) da-1	Yes	31-51a	Test performed before control device installation	6/15/93		Natural gas

TABLE 27. (continued)

FACID	Source	Equipment ID	Control device	Entire report?	Test ID	Comments	Date	Raw material	Fuel type (test)
31	tunnel kilns	tk-3, tk-4	da-1	Yes	31-64	APCD performance documented	11/19/98		Natural gas
31	tunnel kilns	tk-3, tk-4	da-1	Yes	31-66	APCD performance documented	3/24/99		Natural gas
32	tunnel kiln	tk-3	us-11	Yes	32-2		3/1/97		Natural gas
32	tunnel kiln	tk-1	us-9	Yes	32-1		3/1/97		Natural gas
46	tunnel kiln	tk-1	us-1	Yes	46-12b		5/15/97		Sawdust
46	Sawdust dryer	ds-1	cy-1	Yes	46-12a		5/15/97		Waste heat
47	tunnel kiln	tk-1	us-3	No	47-13		9/1/97		Natural gas
48	tunnel kiln	tk-1	us-2	Yes	48-49		6/1/95		Natural gas
49	tunnel kiln	tk-2	us-4	Yes	49-51	AP-42 Test	10/19/95		Natural gas
49	tunnel kiln	tk-2	us-4	Yes	49-50	AP-42 Test	10/17/95		Natural gas
51	tunnel kiln	tk-1	us-4	Yes	51-14a	Has mass balance also	5/14/97		Natural gas
51	tunnel kiln	tk-2	us-9	Yes	51-14b	Has mass balance also	5/14/97		Natural gas
52	kiln	tk-2	bh-2	Yes	52-20a		3/9/93		Coal/natural gas
52	dryer	dc-2	us-2	Yes	52-20b		3/9/93		Waste heat
57	grinder/ screen	gs-1	bh-1	Yes	57-24c	AP-42 test	7/30/93		
57	dryer	dc-1	us-1	Yes	57-24b	AP-42 test	7/30/93		Waste heat
57	tunnel kiln	tk-1	us-3	Yes	57-24a	AP-42 test	7/30/93		Coal/natural gas
58	tunnel kiln	tk-2	bh-3	Yes	58-25		10/11/83		Coal/natural gas
60	tunnel kiln	tk-1	us-4	No	60-26		10/1/90		Coal/natural gas
65	kiln 5	tk-2	us-2	Yes	65-27		3/4/96		Natural gas
70	tunnel kiln	tk-1,tk-2	diff-1, diff-2	No	70-28b	Incomplete summary	6/1/93		Natural gas

TABLE 27. (continued)

FACID	Source	Equipment ID	Control device	Entire report?	Test ID	Comments	Date	Raw material	Fuel type (test)
70	tunnel kiln	tk-1,tk-2	us	No	70-28c	Incomplete summary	3/1/93		Natural gas
70	tunnel kiln	tk-1,tk-2	us	No	70-28a	Incomplete summary	12/1/90		Natural gas
72	tunnel kiln/ sawdust dryer	tk-1, tk-2, ds-2	us-3, us-5, cy-2	No	72-29	2 unc. kiln stacks + cy. Controlled sawdust dryer stack	11/29/93		Sawdust
73	tunnel kiln	tk-2	us-5	No	73-30		6/29/95		Natural gas
73	tunnel kiln	tk-2	us-5	Yes	73-44b		8/28/96		Natural gas
73	tunnel kiln	tk-1	us-4	Yes	73-44a		8/28/96		Natural gas
77	tunnel kiln	tk-1	us-5	No	77-31	Incomplete summary			Natural gas
84	tunnel kiln	tk-1	us-1	No	84-51	HF reported as 4.28 lb/hr	4/22/97		Coal/natural gas
85	dryer	dc-1	us-1	Yes	85-32b		6/3/97		Waste heat
85	tunnel kiln	tk-1	cy-1	Yes	85-32a		6/3/97		Coal/natural gas
88	Keller tunnel kiln	tk-1	us-2	No	88-33		4/22/94		Natural gas
101	tunnel kilns 2 and 3 and sawdust dryer	tk-2, tk-3, sd-1	us- (ds)	Yes	101-21		1/12/95		Sawdust
111	tunnel kiln	tk-1	us-8	No	111-40		7/21/89		Natural gas
111	tunnel kiln	tk-1	us-8	No	111-39		7/25/85		Natural gas
111	tunnel kiln	tk-1	us-8	No	111-41		3/3/92		Natural gas
112	kiln	tk-	us-	Yes	112-36	Plant 6, Kiln 3	5/1/94	shale	Natural gas
112	tunnel kiln	tk-4	us-11	Yes	112-38b	AP-42 test by MRI	11/10/93		Natural gas
112	dryer	dc-6	us-16	Yes	112-38c	AP-42 test by MRI	11/10/93		Waste heat/ natural gas

TABLE 27. (continued)

FACID	Source	Equipment ID	Control device	Entire report?	Test ID	Comments	Date	Raw material	Fuel type (test)
112	grinder/ screening	g-3	bhi-9 to 10	Yes	112-38a	AP-42 test by MRI	11/10/93		
112	dryer	dc-	us-	Yes	112-39		11/17/94		Waste heat/ natural gas
112	kiln	tk-	us-	Yes	112-35	Plant 6, Kiln 2	5/1/94	clay	Natural gas
112	kiln	tk-	us-	Yes	112-37	Plant 8, Kiln 2	5/1/94	shale	Natural gas
112	periodic kilns	pk-1 to -6	us-1	Yes	112-34		5/1/94	shale	Natural gas
123	tunnel kiln	tk-1	us-5	Yes	123-22		12/5/95		Natural gas
127	kiln	pk-6	us-6	No	127-5a	Incomplete summary	10/1/92		Natural gas
127	dryer	dc-1	us-7 to us-8	No	127-5b	Incomplete summary	10/1/92		Waste heat/ natural gas
128	kiln	tk-1	da-1	Yes	128-6a	AP-42 test	6/18/91		Natural gas
128	dryer	dc-1	us-1	Yes	128-6b	AP-42 Test	6/18/91		Waste heat
129	kiln	tk-1	us-4	No	129-7a	Incomplete summary	10/22/97		Natural gas
129	kiln	tk-1	us-4	No	129-8	Incomplete summary	5/29/92		Natural gas
129	dryer	dc-1	us-2	No	129-7b	Incomplete summary	10/22/97		Waste heat
130	tunnel kiln	tk	us	Yes	130-1	Plant 9, Kiln 2	5/1/94	Shale	Natural gas
131	tunnel kiln	tk-1	us-6	No	131-61	Clemson	2/11/93		Natural gas
133	tunnel kiln	tk-2	us-9	No	133-57		9/11/91		Natural gas
133	tunnel kiln	tk-3	us-18	No	133-59		11/1/95		Sawdust/ natural gas
133	tunnel kiln	tk-2	us-9	No	133-60	Clemson	11/8/94		Natural gas
133	tunnel kiln	tk-3	us-18	No	133-58		9/11/91		Sawdust/ natural gas

TABLE 27. (continued)

FACID	Source	Equipment ID	Control device	Entire report?	Test ID	Comments	Date	Raw material	Fuel type (test)
135	kiln 2	tk-2	us-2	Yes	135-46		4/18/97		Natural gas
137	sawdust dryer	ds-1	us-1	Yes	137-8	AP-42 test. The inlet refers to the inlet of the sawdust dryer, which is the kiln exhaust. The outlet is the kiln exhaust after passing through the sawdust dryer.	8/1/93		Waste heat
137	grinding/ screening	gs-1	fe-10	Yes	137-8a	AP-42 test	8/1/93		
137	tunnel kiln	tk-1,tk-2	ds-1	Yes	137-8	AP-42 test. The inlet refers to the inlet of the sawdust dryer, which is the kiln exhaust. The outlet is the kiln exhaust after passing through the sawdust dryer.	8/1/93		Sawdust
138	tunnel kiln	tk-1	us-5	No	138-56		6/1/86		Natural gas
141	tunnel kiln	tk-1	us-4	No	141-23		9/16/93		Natural gas
143	tunnel kiln	tk	us	No	143-1		9/3/96		
143	rotary kiln	ca	us	No	143-2b		10/13/93		
143	tunnel kiln	tk	us	No	143-2		10/13/93		
143	dryer	dc	us	No	143-2a		10/13/93		
144	dryer	dc-1	us-2	Yes	144-55b		12/13/95		Waste heat
144	tunnel kiln	tk-1	us-1	Yes	144-55a		12/13/95		Natural gas
148	tunnel kiln	Tk-1	da-1	Yes	148-4a		2/1/91	clay, shale	Natural gas
148	tunnel kiln	tk-1	da-1	No	148-63	Clemson	8/31/93		Natural gas
148	grinding/ screening	g-1,s-1	bh-1	Yes	148-4b	BH pickups on 2 rollermills, 2 hammermills, 4 screens, and a couple of transfer points	2/1/91	clay, traprock, shale	
148	tunnel kiln	tk-1	da-1	Yes	148-1		3/1/95		Natural gas

TABLE 27. (continued)

FACID	Source	Equipment ID	Control device	Entire report?	Test ID	Comments	Date	Raw material	Fuel type (test)
148	tunnel kiln	tk-1	da-1	Yes	148-3		2/1/91		Natural gas
148	tunnel kiln	tk	us	Yes	148-6		2/5/90		
148	tunnel kiln	tk-1	da-1	Yes	148-5		8/23/95		Natural gas
148	tunnel kiln	tk-1	da-1	Yes	148-2		1/2/95		Natural gas
148	coloring/ texturing extrusion line	cta-1, fw-1	BH-2	Yes	148-4c	2 dust collection hoods at the feed end of the extruder and cta-X. 10 car/day push thru cta-X 65 lb/hr sand	2/1/91	clay, shale	
149	tunnel kiln	tk-1	us-1	Yes	149-54		11/13/96		Natural gas
150	tunnel kiln	tk-2	diff-1	Yes	150-52		3/29/95		Natural gas
150	tunnel kiln	tk-2	diff-1	Yes	150-52		5/27/94		Natural gas
150	tunnel kiln	tk-2	diff-1	Yes	150-52		6/7/95		Natural gas
151	color application	cta	bh	Yes	151-1d		6/3/97		
151	dryer	dc-	us-	Yes	151-1a		6/3/97		
151	predryer	misc-	us-	Yes	151-1b		6/3/97		
151	tunnel kiln	tk	diff-1	Yes	151-1e		6/3/97		
151	screen	gs-	bh	Yes	151-1c		6/3/97		
152	tunnel kiln	tk-1	us	Yes	152-1		4/23/98		Natural gas
154	tunnel kiln	tk-1	sc-1	Yes	154-1	AP-42	10/31/95		Natural gas
154	tunnel kiln	tk-1	sc-1	Yes	154-65		10/28/98		Natural gas
154	tunnel kiln	tk-2	sc-2	Yes	154-2	AP-42	12/1/94		Natural gas
154	crushing	cr-1	bh-1	Yes	154-2a	AP-42	12/1/94		

TABLE 27. (continued)

FACID	Source	Equipment ID	Control device	Entire report?	Test ID	Comments	Date	Raw material	Fuel type (test)
154	extrusion line conveyor drop point	mh-X	bh-X	Yes	154-2b	AP-42	12/1/94		
154	extrusion line conveyor drop point	mh-XX	bh-XX	Yes	154-2c	AP-42	12/1/94		
155	tunnel kiln	tk-1	DIFF-1	Yes	155-1		7/2/98		Natural gas

TABLE 28. TEST DATA SUMMARY, PART I

FACID	Test Date	Source ID	Source type	APCD	APCD type	Sources	ACFM uncontrolled	ACFM controlled	DSCFM uncontrolled	DSCFM controlled	Production (tph)	Moisture (%) uncontrolled	Moisture (%) controlled	Temp (deg F) uncontrolled
1	5/21/97	tk-2	Tunnel kiln	dls-1	dls	tk-2	30844	24795	18730	16898	10.41	0.039	0.088	381
1	5/21/97	tk-2	Tunnel kiln	dls-1	dls	tk-2	30734	24098	18856	17486	10.41	0.035	0.023	376
7	9/10/91	tk-1	Tunnel kiln	us-8	us	tk-1	29109		15139			0.084		469
7	9/10/91	tk-1	Tunnel kiln	us-8	us	tk-1	29389		15376			0.078		470
9	3/4/99	tk-1, tk-2	Tunnel kilns	da-1	da	tk-1, tk-2		43692		27212	22.71		0.093	
9	3/4/99	tk-1	Tunnel kiln	da-1	da	tk-1		21846		13606	11.355		0.093	
9	3/4/99	tk-2	Tunnel kiln	da-1	da	tk-2		21846		13606	11.355		0.093	
11	1/23/97	tk-1	Tunnel kiln	us-3	us	tk-1	41193		28912		9.9	0.0544		256
13	2/15/96	tk-1	Tunnel kiln	da-1	da	tk-1		38316		20755	10.53		0.064	
13	6/29/95	tk-1	Tunnel kiln	da-1	da	tk-1		42859		22463	10.4		0.0803	
13	3/1/95	tk-1	Tunnel kiln	da-1	da	tk-1		43272.5		21527			0.0637	
13	6/29/95	tk-1,tk-2	Tunnel kilns					85717		44925	20.79		0.0803	
13	6/29/95	tk-1	Tunnel kiln	da-1	da	tk-1		41801		21874	10.4		0.0758	
13	2/15/96	tk-1,tk-2	Tunnel kilns					76631		41509	21.06		0.064	
13	6/29/95	tk-1,tk-2	Tunnel kilns					83601		43747	20.79		0.0758	
13	3/1/95	tk-1,tk-2	Tunnel kilns					86545		43054			0.0637	
13	3/1/95	tk-2	Tunnel kiln	DA-1	da	tk-2		43272.5		21527			0.0637	
13	2/15/96	tk-2	Tunnel kiln	DA-1	da	tk-2		38316		20755	10.53		0.064	
13	6/29/95	tk-2	Tunnel kiln	DA-1	da	tk-2		42859		22463	10.4		0.0803	
13	6/29/95	tk-2	Tunnel kiln	DA-1	da	tk-2		41801		21874	10.4		0.0758	
23	7/6/93	tk-3	Tunnel kiln	us-3	us	tk-3			17699		5.92	0.0768		
31	4/22/93	tk-4	Tunnel kiln	DA-1	da	tk-4	19050		11217		11.29	0.03		415
31	11/19/98	tk-3, tk-4	Tunnel kilns	da-1	da	tk-3, tk-4	37256	39186	18443	20010	21.19	0.11853	0.1136	465
31	11/19/98	tk-3	Tunnel kiln	da-1	da	tk-3	18628	19593	9222	10005	10.595	0.11853	0.1136	465
31	11/19/98	tk-4	Tunnel kiln	da-1	da	tk-4	18628	19593	9222	10005	10.595	0.11853	0.1136	465
31	3/24/99	tk-4	Tunnel kiln	da-1	da	tk-4	19752	20850	10123	10717	11.265	0.10523	0.11648	458.7
31	3/24/99	tk-3	Tunnel kiln	da-1	da	tk-3	19752	20851	10124	10717	11.265	0.10523	0.11648	458.7
31	3/24/99	tk-3,tk-4	Tunnel kilns	da-1	da	tk-3, tk-4	39504	41701	20247	21434	22.53	0.10523	0.11648	458.7

TABLE 28. (CONTINUED)

FACID	Test Date	Source ID	Source type	APCD	APCD type	Sources	ACFM uncontrolled	ACFM controlled	DSCFM uncontrolled	DSCFM controlled	Production (tph)	Moisture (%) uncontrolled	Moisture (%) controlled	Temp (deg F) uncontrolled
32	3/7/97	tk-1	Tunnel kiln	us-9	us	tk-1	18967		10948		7.7	0.0879		377
32	7/11/97	tk-3	Tunnel kiln	us-11	us	tk-3	22603		12482		8.8	0.122		377
41	8/29/94	dc-1	Dryer	us-1	us	dc-1	22160		19280		5.99	0.0726		106
41	5/11/94	dc-1	Dryer	us-1	us	dc-1	19495		17213		4.79	0.0846		93.6
41	8/29/94	dc-2	Dryer	us-2	us	dc-2	20453		17613		5.99	0.0844		104
41	5/11/94	dc-2	Dryer	us-2	us	dc-2	19076		16842		4.79	0.0756		95.8
41	5/11/94	tk-1	Tunnel kiln	us-3	us	tk-1	24600		12898		9.58	0.0656		478
41	8/29/94	tk-1	Tunnel kiln	us-3	us	tk-1	30835		17404		11.97	0.0519		436
46	5/15/97	tk-1	Tunnel kiln/partial sd	us-1,dps-1	us,dps	tk-1	31791		20210		9.7	0.105		276
47	8/19/97	tk-2	Tunnel kiln	us-4	us	tk-2	15622		7655		4.37			
48	6/2/95	tk-1	Tunnel kiln	us-2	us	tk-1	22553		11531		6.54	0.091		482
49	10/17/95	tk-2	Tunnel kiln	us-4	us	tk-2	29095		14952		10.56	0.071		512
49	10/19/95	tk-2	Tunnel kiln	us-4	us	tk-2	28624		15023		10.56	0.076		487
51	5/14/97	tk-1	Tunnel kiln	us-4	us	tk-1	16440		9986		8.05	0.0849		320
51	5/14/97	tk-2	Tunnel kiln	us-9	us	tk-2	29095		15024		9.81	0.101		436
52	3/9/93	dc-2	Dryer	us-2	us	dc-2	44837		41571		10.66	0.032		94
52	3/9/93	tk-2	Tunnel kiln	bh-2	bh	tk-2		17660		13128	10.66		0.0423	
57	7/27/93	g-1,s-1	Grinding and screening					18609		17337	59.5		0.027	
57	7/27/93	tk-1	Tunnel kiln	us-3	us	tk-1	7310		4351		6.7	0.1053		336
58	10/11/83	tk-1	Tunnel kiln	us-3	us	tk-1	13314		7886		5.36	0.0663		381
58	7/21/82	tk-2	Tunnel kiln	bh-3	bh	tk-2		28037		18306	9.16		0.0564	
59	4/22/86	tk-2	Tunnel kiln	us-2	us	tk-2	28484		22390		12.32	0.0619		171
60	10/17/90	tk-2	Tunnel kiln	us-5	us	tk-2	5107		2867		2.35	0.0605		411
60	10/17/90	tk-3	Tunnel kiln	us-6	us	tk-3	10864		6679		9.36	0.0392		356
65	3/4/96	tk-2	Tunnel kiln	us-2	us	tk-2	27971		13090		3.67	0.058		591
65	3/4/96	tk-2	Tunnel kiln	us-2	us	tk-2	27842		12737		3.67	0.0666		594
70		tk-1	Tunnel kiln	DIFF-1	diff	tk-1	17000	16200	10700	9208		0.081	0.094	279

TABLE 28. (CONTINUED)

FACID	Test Date	Source ID	Source type	APCD	APCD type	Sources	ACFM uncontrolled	ACFM controlled	DSCFM uncontrolled	DSCFM controlled	Production (tph)	Moisture (%) uncontrolled	Moisture (%) controlled	Temp (deg F) uncontrolled
70		tk-2	Tunnel kiln	diff-2	diff	tk-2	16000	17583	9774	10380		0.071	0.091	310
72	11/29/93	tk-2	Tunnel kiln/partial sd	us-3,us-4,dps-2	us,dps	tk-2			54115		24.97			
72	11/29/93	tk-2	Tunnel kiln/partial sd	us-3,us-4,dps-2	us,dps	tk-2			51235		24.97			
73	8/27/96	tk-1	Tunnel kiln	us-4	us	tk-1	30703		14371		12.49	0.1247		513
73	8/27/96	tk-2	Tunnel kiln	us-5	us	tk-2	32779		15291		12.49	0.1109		529
77		tk-1	Tunnel kiln	us-5	us	tk-1								
77	12/2/99	tk-2	Tunnel kiln	dls-1	dls	tk-2	25440	26226	15362	17688	11	0.073	0.082	335
84	4/22/97	tk-1	Tunnel kiln	us-2	us	tk-1	31521		14935			0.074		533
85	6/3/97	dc-1	Dryer	us-1	us	dc-1	35165		26098		8.29	0.0715		178
85	6/3/97	tk-1	Tunnel kiln	cy-1	cy	tk-1	9308		5201		8.29	0.0618		423
88	4/22/94	tk-1	Tunnel kiln	us-2	us	tk-1	35089		19374			0.057		438
101	12/1/94	ds-1,tk-2,tk-3	Tunnel kilns/sawdust dryer				35600		26600		10.42	0.098		180
101	12/1/94	tk-2	Tunnel kiln/sawdust dryer	ds-1	us,ds	tk-2	17800		13300		5.21	0.098		180
101	12/1/94	tk-3	Tunnel kiln/sawdust dryer	DS-1	us,ds	tk-3	17800		13300		5.21	0.098		180
111	7/21/89	tk-1	Tunnel kiln	us-8	us	tk-1	30408		15543		10.77	0.0896		465
111	7/25/85	tk-1	Tunnel kiln	us-8	us	tk-1	28803		16737		11.75	0.0438		390
111	3/3/92	tk-1	Tunnel kiln	us-8	us	tk-1	28774		16115		7.83	0.056		409
112	11/8/93	cr-3,g-3,s-3	Grinding and screening				20979	26497	20434	26033	42.7	0.015	0.015	59
112	5/4/94	pk-12 to pk-17	Periodic kiln				54013		25621		7.42	0.077		544

TABLE 28. (CONTINUED)

FACID	Test Date	Source ID	Source type	APCD	APCD type	Sources	ACFM uncontrolled	ACFM controlled	DSCFM uncontrolled	DSCFM controlled	Production (tph)	Moisture (%) uncontrolled	Moisture (%) controlled	Temp (deg F) uncontrolled
112	5/3/94	tk-2	Tunnel kiln				24326		13121		2.89	0.067		436
112	5/3/94	tk-2, tk-3	Tunnel kilns				48651		26241		5.78	0.067		436
112	5/3/94	tk-3	Tunnel kiln				24326		13121		2.89	0.067		436
112	5/2/94	tk-5	Tunnel kiln	us-12	us	tk-5	28928		15797		3.43	0.061		427
112	11/8/93	tk-6	Tunnel kiln	us-13	us	tk-6	35091		20103		3.48	0.046		396
112	5/2/94	tk-6	Tunnel kiln	us-13	us	tk-6	32873		16729		3.09	0.063		490
112	11/8/93	tk-6	Tunnel kiln	us-13	us	tk-6	39150		21711		3.48	0.045		431
112	11/8/93	tk-6	Tunnel kiln	us-13	us	tk-6	36092		19871		3.48	0.046		436
123	12/5/95	tk-1	Tunnel kiln	us-5	us	tk-1	20283		14868		3.2	0.04		228
127	10/6/92	dc-1	Dryer				46813		41018			0.045		111
127	10/8/92	pk-6	Periodic kiln	us-6	us	pk-6	13746		6553		0.996	0.04898		577.5
128	6/18/91	dc-1	Dryer	us-1	us	dc-1	67156		58978		19.2	0.0553		107.6
128	6/18/91	tk-1	Tunnel kiln	da-1	da	tk-1		47879		31381	19.2		0.0787	
129	10/22/97	dc-1	Dryer	us-2	us	dc-1	30731		28587			0.0333		89
129	9/6/96	tk-1	Tunnel kiln	us-4	us	tk-1	33088		18808			0.0756		385
129	10/22/97	tk-1	Tunnel kiln	us-4	us	tk-1	29341		17652			0.0636		368.6
129	5/29/92	tk-1	Tunnel kiln	us-4	us	tk-1	31733		18555			0.0666		378.3
130	5/3/94	tk-2	Tunnel kiln	us-4	us	tk-2	13238		7708		2.52	0.049		375
131	2/10/93	tk-1	Tunnel kiln	us-6	us	tk-1			12223		12.85	0.0933		
131	2/10/93	tk-1	Tunnel kiln	us-6	us	tk-1			12427		12.85	0.0933		
131	2/10/93	tk-1	Tunnel kiln	us-6	us	tk-1			12251		12.85	0.0933		
133	11/8/95	tk-3	Tunnel kiln	us-18	us	tk-3	96744		57966		18.8	0.0479		422
133	11/8/95	tk-3	Tunnel kiln	us-18	us	tk-3	96363		57542		18.8	0.0689		423
133	11/8/95	tk-3	Tunnel kiln	us-18	us	tk-3	96553		57754		18.8	0.0584		423
133	9/10/91	tk-3	Tunnel kiln	us-18	us	tk-3	88118		48698		18.9	0.043		458
133	9/10/91	tk-2	Tunnel kiln	us-9,us-10	us	tk-2	10117		7831		10.1	0.018		213

TABLE 28. (CONTINUED)

FACID	Test Date	Source ID	Source type	APCD	APCD type	Sources	ACFM uncontrolled	ACFM controlled	DSCFM uncontrolled	DSCFM controlled	Production (tph)	Moisture (%) uncontrolled	Moisture (%) controlled	Temp (deg F) uncontrolled
133	9/10/91	tk-2	Tunnel kiln	us-9,us -10	us	tk-2	10582		8284		10.1	0.018		205
133	9/10/91	tk-3	Tunnel kiln	us-18	us	tk-3	86055		47553		18.9	0.052		450
135	4/18/97	tk-2	Tunnel kiln	us-2	us	tk-2	31807		18710		7.8	0.0575		373
135	4/18/97	tk-2	Tunnel kiln	us-2	us	tk-2	30397		17966		7.8	0.0576		370
137	10/27/92	g-1,s-1	Grinding and screening				55451		54282		212.5	0.01		67
137	10/27/92	tk-1	Tunnel kiln/sawdust dryer	ds-1	us,ds	tk-1	25008		17764		8.5	0.109		181.8
137	10/27/92	tk-1,tk-2 ,ds-1	Tunnel kilns/sawdust dryer				50015		35527		17	0.109		181.8
137	10/27/92	tk-2	Tunnel kiln/sawdust dryer	DS-1	us,ds	tk-2	25008		17764		8.5	0.109		181.8
137	10/27/92	tk-3	Tunnel kiln	us-4	us	tk-3	29279		14817		8.5	0.0729		495.5
137	10/27/92	tk-3,tk-4	Tunnel kilns				58558		29634		17	0.0729		495.5
137	6/8/95	tk-4	Tunnel kiln	US-4	us	tk-4	23727		14213		11.6	0.126		291.7
137	10/27/92	tk-4	Tunnel kiln	US-4	us	tk-4	29279		14817		8.5	0.0729		495.5
137	3/3/98	tk-5	Tunnel kiln	us-3	us	tk-5	25176		11759		7.13	0.087		544
137	3/6/98	tk-5	Tunnel kiln	us-3	us	tk-5	22673		11398		9.29	0.094		479
138	6/1/86	tk-1	Tunnel kiln	us-5	us	tk-1	13115		7147		6.7	0.1154		
141	9/16/93	tk-1	Tunnel kiln	us-4	us	tk-1	20283		9322			0.064		588.7
143	10/12/93	ca-1	Calciner	us-6	us	ca-1	12943		6804			0.2132		329
143	10/12/93	dc-2	Dryer	us-4 to us-5	us	dc-2	52888		50067			0.0333		78.2
143	9/3/96	tk-1	Tunnel kiln	us-1	us	tk-1	18833		9788			0.1238		424
143	9/3/96	tk-2	Tunnel kiln	us-2	us	tk-2	57053		35088			0.0645		332
143	10/12/93	tk-2	Tunnel kiln	us-2	us	tk-2	30990		18714			0.069		351

TABLE 28. (CONTINUED)

FACID	Test Date	Source ID	Source type	APCD	APCD type	Sources	ACFM uncontrolled	ACFM controlled	DSCFM uncontrolled	DSCFM controlled	Production (tph)	Moisture (%) uncontrolled	Moisture (%) controlled	Temp (deg F) uncontrolled
144	12/13/95	dc-1	Dryer	us-2	us	dc-1	23766		20412		9.9	0.0694		106
144	12/13/95	tk-1	Tunnel kiln	us-1	us	tk-1	20446		11448		9.9	0.0847		396
148	2/5/91	cta-1, mh-2	Color/texture application					1585		1556	10.94		0.0094	
148	2/5/91	g-1,s-1	Grinding and screening					22142		21990			0.0123	
148	1/5/95	tk-1	Tunnel kiln	da-1	da	tk-1		24239		16929	11.18		0.0464	
148	8/22/95	tk-1	Tunnel kiln	da-1	da	tk-1	35758	34107	21784	21970	11.18	0.052	0.037	361
148	1/24/95	tk-1	Tunnel kiln	da-1	da	tk-1		25654		16862	11.18		0.048	
148	1/5/95	tk-1	Tunnel kiln	da-1	da	tk-1	27215	26879	17751	18432	11.18	0.043	0.047	322
148	8/31/93	tk-1	Tunnel kiln	da-1	da	tk-1					10.94			
148	6/10/99	tk-1	Tunnel kiln	da-1	da	tk-1		32815		21316	18.72		0.054	
149	11/12/96	tk-1	Tunnel kiln	us-1	us	tk-1	20165		13769		12.4	0.0642		259
150	6/8/95	dc-2	dryer				48355		40131		11	0.0223		145
150	3/29/95	tk-1	Tunnel kiln	diff-1	diff	tk-1		22590		13741	11.46		0.0753	
150	5/27/94	tk-1	Tunnel kiln	diff-1	diff	tk-1		17259		10978	8		0.0956	
150	6/7/95	tk-2	Tunnel kiln	diff-2	diff	tk-2		24188		13831	11		0.1464	
150	6/7/95	tk-2	Tunnel kiln	diff-2	diff	tk-2	28525	24350	12061	13859	11	0.0912	0.1468	624
151	6/3/97	dc-1	Dryer	us-1	us	dc-1	13504		11890		13.69	0.044		101.1
151	6/3/97	dc-1	Dryer	us-1	us	dc-1	14055		12650		13.69	0.0221		101.9
151	6/3/97	misc-1	Predryer	us-6	us	misc-1	20330		18369		13.69	0.0346		92.8
151	6/3/97	tk-1	Tunnel kiln	dls-1	dls	tk-1	30203	30528	17782	19355	13.69	0.082	0.093	344
151	6/3/97	tk-1	Tunnel kiln	dls-1	dls	tk-1	30053	31393	17739	19905	13.69	0.0781	0.0933	344.9
151	6/3/97	wasteheat stack	Wasteheat stack				27955		16068		13.69	0.024		418.2
151	6/3/97	wasteheat stack	Wasteheat stack				27779		15957		13.69	0.0221		420.8
152	4/23/98	tk-1	Tunnel kiln	us-1	us	tk-1	9980		5307		3.32	0.0953		427
154	10/31/95	tk-1	Tunnel kiln	sc-1	sc	tk-1	44442	27196	18445	17114	13.23	0.0706	0.161	541

TABLE 28. (CONTINUED)

FACID	Test Date	Source ID	Source type	APCD	APCD type	Sources	ACFM uncontrolled	ACFM controlled	DSCFM uncontrolled	DSCFM controlled	Production (tph)	Moisture (%) uncontrolled	Moisture (%) controlled	Temp (deg F) uncontrolled
154	12/5/94	tk-2	Tunnel kiln	sc-2	sc	tk-2	59097	59097	39188	39188	12.04		0.1316	
154	10/28/98	tk-1	Tunnel kiln	sc-1	sc	tk-1	47300	37200	21400	17900	11.8	0.07	0.363	451
155	7/2/98	tk-1	Tunnel kiln	dls-1	dls	tk-1	29707	31863	16377	18563	10.6	0.08	0.08	239
155	7/10/98	tk-1	Tunnel kiln	dls-1	dls	tk-1	32323	32820	17755	18965	11.25	0.072	0.079	249
155	7/2/98	tk-1	Tunnel kiln	dls-1	dls	tk-1	31103	32347	16973	18842	10.6	0.078	0.081	248
155	7/10/98	tk-1	Tunnel kiln	dls-1	dls	tk-1	32127	17532	35437	20420	11.25	0.076	0.083	250
184	3/30/94	tk-1	Tunnel kiln	us-3	us	tk-1	18518		12488		2.6	0.0336		273
184	3/30/94	tk-2	Tunnel kiln	us-3	us	tk-2	18518		12488		2.6	0.0336		273
184	3/30/94	tk-3	Tunnel kiln	us-3	us	tk-3	18518		12488		3.1	0.0336		273
184	4/14/94	tk-1	Tunnel kiln	us-3	us	tk-1	19387		12872		2.6	0.0362		282
184	4/14/94	tk-2	Tunnel kiln	us-3	us	tk-2	19387		12872		2.6	0.0362		282
184	4/14/94	tk-3	Tunnel kiln	us-3	us	tk-3	19387		12872		3.1	0.0362		282
184	11/17/93	tk-3	Tunnel kiln	us-3	us	tk-3	11880		8341		2.77	0.0635		220
184	11/18/93	tk-3	Tunnel kiln	us-3	us	tk-3	10568		7001		2.77	0.0635		257
184	8/2/95	tk-1	Tunnel kiln	us-3	us	tk-1	17913		11520			0.0582		304
184	8/2/95	tk-2	Tunnel kiln	us-3	us	tk-2	17913		11520			0.0582		304
184	8/2/95	tk-3	Tunnel kiln	us-3	us	tk-3	17913		11520			0.0582		304

TABLE 29. TEST DATA SUMMARY, PART II

FACID	Test Date	Source ID	Temp (deg F) controlled	Oxygen (%) uncontrolled	Oxygen (%) controlled	HF - gr/dscf uncontrolled	HF - gr/dscf - controlled	HF - ppm uncontrolled	HF - ppm controlled	HF - lb/hr uncontrolled	HF - lb/hr controlled	HF - lb/ton uncontrolled	HF lb/ton controlled	HF Test Method
1	5/21/97	tk-2	252	0.167	0.167	0.0389	0.0002	107	0.55	6.1	0.029	0.586	0.003	26
1	5/21/97	tk-2	256	0.167	0.167									
7	9/10/91	tk-1		0.18		0.02				2.54				13B
7	9/10/91	tk-1		0.18										
9	3/4/99	tk-1, tk-2	304		0.204		0.00097				0.225		0.010	26A
9	3/4/99	tk-1	304		0.204		0.00097				0.1125		0.010	26A
9	3/4/99	tk-2	304		0.204		0.00097				0.1125		0.010	26A
11	1/23/97	tk-1		0.21		0.0264		72.6		6.82		0.689		26
13	2/15/96	tk-1	439		0.165	0.0407	0.00266	112	7.32	7.2	0.473	0.684	0.045	13B
13	6/29/95	tk-1	462		0.171									
13	3/1/95	tk-1	532		0.173		0.00338		9.3		0.62			13B
13	6/29/95	tk-1, tk-2	462		0.171									
13	6/29/95	tk-1	468		0.172		0.00311		8.56		0.585		0.056	13B
13	2/15/96	tk-1,tk-2	439		0.165	0.0407	0.00266	112	7.32	14.4	0.946	0.684	0.045	13B
13	6/29/95	tk-1,tk-2	468		0.172		0.00311		8.56		1.17		0.056	13B
13	3/1/95	tk-1,tk-2	532		0.173		0.00338		9.3		1.24			13B
13	3/1/95	tk-2	532		0.173		0.00338		9.3		0.62			13B
13	2/15/96	tk-2	439		0.165	0.0407	0.00266	112	7.32	7.2	0.473	0.684	0.045	13B
13	6/29/95	tk-2	462		0.171									
13	6/29/95	tk-2	468		0.172		0.00311		8.56		0.585		0.056	13B
23	7/6/93	tk-3				0.0103		28.28		1.4		0.236		13B
31	4/22/93	tk-4		0.209		0.05737		157.8		5.53		0.490		26
31	11/19/98	tk-3, tk-4	442	20.3	20.2					8.18	0.3	0.386	0.014	26A
31	11/19/98	tk-3	442	20.3	20.2					4.09	0.15	0.386	0.014	26A
31	11/19/98	tk-4	442	20.3	20.2					4.09	0.15	0.386	0.014	26A
31	3/24/99	tk-4	445.3	17.1	20.8					5.405	0.4135	0.48	0.0367	26A

TABLE 29. (CONTINUED)

FACID	Test Date	Source ID	Temp (deg F) controlled	Oxygen (%) uncontrolled	Oxygen (%) controlled	HF - gr/dscf uncontrolled	HF - gr/dscf - controlled	HF - ppm uncontrolled	HF - ppm controlled	HF - lb/hr uncontrolled	HF - lb/hr controlled	HF - lb/ton uncontrolled	HF lb/ton controlled	HF Test Method
31	3/24/99	tk-3	445.3	17.1	20.8					5.405	0.4135	0.48	0.0367	26A
31	3/24/99	tk-3, tk-4	445.3	17.1	20.8					10.81	0.827	0.48	0.0367	26A
32	3/7/97	tk-1		0.172		0.0443		121.9		4.15		0.539		26A
32	7/11/97	tk-3				0.04099		112.78		4.39		0.499		26A
41	8/29/94	dc-1		0.204										
41	5/11/94	dc-1		0.204										
41	8/29/94	dc-2		0.204										
41	5/11/94	dc-2		0.204										
41	5/11/94	tk-1		0.178										
41	8/29/94	tk-1		0.1814										
46	5/15/97	tk-1		0.17		0.0187		51.45		2.88		0.297		26
47	8/19/97	tk-2				0.025		68.78		1.63		0.373		26A
48	6/2/95	tk-1		0.164		0.0217		59.6		2.14		0.327		13B
49	10/17/95	tk-2		0.166										
49	10/19/95	tk-2		0.166		0.0293		80.6		3.77		0.357		26A
51	5/14/97	tk-1		0.1683		0.0369		101.5		3.23		0.401		26
51	5/14/97	tk-2		0.17		0.0433		119.1		5.58		0.569		26
52	3/9/93	dc-2		0.198										
52	3/9/93	tk-2	242		0.158									
57	7/27/93	g-1,s-1	81.3		0.208									
57	7/27/93	tk-1		0.1304		0.0226		62.1		0.846		0.126		26
58	10/11/83	tk-1		0.1695										
58	7/21/82	tk-2	310		0.167									
59	4/22/86	tk-2		0.18										
60	10/17/90	tk-2		0.162										

TABLE 29. (CONTINUED)

FACID	Test Date	Source ID	Temp (deg F) controlled	Oxygen (%) uncontrolled	Oxygen (%) controlled	HF - gr/dscf uncontrolled	HF - gr/dscf - controlled	HF - ppm uncontrolled	HF - ppm controlled	HF - lb/hr uncontrolled	HF - lb/hr controlled	HF - lb/ton uncontrolled	HF lb/ton controlled	HF Test Method
60	10/17/90	tk-3		0.167										
65	3/4/96	tk-2		0.19		0.0243		66.86		2.7		0.736		13B
65	3/4/96	tk-2		0.192		0.0393		108.1		4.21		1.147		26A
70		tk-1	366	0.116	0.135					0.63	0.0041			26A
70		tk-2	339	0.15	0.14					1.5	0.0043			26A
72	11/29/93	tk-2								6.43		0.258		26A
72	11/29/93	tk-2												
73	8/27/96	tk-1		0.1435		0.0058		15.96		0.7161		0.057		13B
73	8/27/96	tk-2		0.1442		0.0035		9.63		0.4595		0.037		13B
77		tk-1												?
77	12/2/99	tk-2	249	0.195	0.179	0.0262	0.000865	72	2.35	3.45	0.132	0.313	0.012	26A
84	4/22/97	tk-1		0.165		0.0334				4.28				26A
85	6/3/97	dc-1		0.2		0.012				2.76		0.333		26A
85	6/3/97	tk-1		0.18		0.2089		574.7		9.32		1.124		26A
88	4/22/94	tk-1		0.18		0.04045		111.3		6.67				13B
101	12/1/94	ds-1,tk-2,tk-3		0.165		0.00912		25.1		1.96		0.188		26A
101	12/1/94	tk-2		0.165		0.00912		25.1		0.98		0.188		26A
101	12/1/94	tk-3		0.165		0.00912		25.1		0.98		0.188		26A
111	7/21/89	tk-1		0.182										
111	7/25/85	tk-1		0.1773										
111	3/3/92	tk-1		0.166										
112	11/8/93	cr-3,g-3,s-3	57	0.209	0.209									
112	5/4/94	pk-12 to pk-17		0.116						5.69		0.767		13B

TABLE 29. (CONTINUED)

FACID	Test Date	Source ID	Temp (deg F) controlled	Oxygen (%) uncontrolled	Oxygen (%) controlled	HF - gr/dscf uncontrolled	HF - gr/dscf - controlled	HF - ppm uncontrolled	HF - ppm controlled	HF - lb/hr uncontrolled	HF - lb/hr controlled	HF - lb/ton uncontrolled	HF lb/ton controlled	HF Test Method
112	5/3/94	tk-2		0.156						4.64		1.606		13B
112	5/3/94	tk-2, tk-3		0.156						9.28		1.606		13B
112	5/3/94	tk-3		0.156						4.64		1.606		13B
112	5/2/94	tk-5		0.176						2.86		0.834		13B
112	11/8/93	tk-6		0.176										
112	5/2/94	tk-6		0.176						2.94		0.951		13B
112	11/8/93	tk-6		0.179										
112	11/8/93	tk-6		0.182		0.00606		16.7		1		0.287		26A
123	12/5/95	tk-1		0.169		0.00344		9.46		0.438		0.137		13B
127	10/6/92	dc-1		0.21		0.000349		0.96		0.122				13B
127	10/8/92	pk-6		0.19		0.0414		113.93		2.316		2.325		13B
128	6/18/91	dc-1		0.21		0		0		0		0.000		13B?
128	6/18/91	tk-1	281.7		0.182		0.000284		0.782		0.0764		0.004	13B?
129	10/22/97	dc-1		0.21		0.00054		1.49		0.136				13B
129	9/6/96	tk-1		0.175										
129	10/22/97	tk-1		0.187										
129	5/29/92	tk-1		0.182		0.0186		51.23		2.95				13B
130	5/3/94	tk-2		0.172						2.26		0.897		13B
131	2/10/93	tk-1				0.048		132		4.78		0.372		13B
131	2/10/93	tk-1												
131	2/10/93	tk-1				0.0277		76.3		12.1		0.942		26A
133	11/8/95	tk-3		0.18										
133	11/8/95	tk-3		0.18		0.03395		93.4		16.73		0.890		26
133	11/8/95	tk-3		0.18										

TABLE 29. (CONTINUED)

FACID	Test Date	Source ID	Temp (deg F) controlled	Oxygen (%) uncontrolled	Oxygen (%) controlled	HF - gr/dscf uncontrolled	HF - gr/dscf - controlled	HF - ppm uncontrolled	HF - ppm controlled	HF - lb/hr uncontrolled	HF - lb/hr controlled	HF - lb/ton uncontrolled	HF lb/ton controlled	HF Test Method
133	9/10/91	tk-3		0.18										
133	9/10/91	tk-2		0.21										
133	9/10/91	tk-2		0.21		0.002				0.16		0.016		13B
133	9/10/91	tk-3		0.18		0.019		52.3		7.64		0.404		13B
135	4/18/97	tk-2		0.182		0.0248		68.2		3.94		0.505		13B
135	4/18/97	tk-2		0.182		0.0229		63		3.55		0.455		26A
137	10/27/92	g-1,s-1		0.209										
137	10/27/92	tk-1		0.172		0.0109		29.9		1.54		0.181		26
137	10/27/92	tk-1,tk-2, ds-1		0.172		0.0109		29.9		3.07		0.181		26
137	10/27/92	tk-2		0.172		0.0109		29.9		1.54		0.181		26
137	10/27/92	tk-3		0.159		0.0344		94.75		3.99		0.469		26
137	10/27/92	tk-3,tk-4		0.159		0.0344		94.75		7.97		0.469		26
137	6/8/95	tk-4		0.155		0.056		154		6.83		0.589		26A
137	10/27/92	tk-4		0.159		0.0344		94.75		3.99		0.469		26
137	3/3/98	tk-5		0.16		0.037		102		3.68		0.516		26A
137	3/6/98	tk-5		0.158		0.028		77		2.7		0.291		26A
138	6/1/86	tk-1		0.159										
141	9/16/93	tk-1		0.165										
143	10/12/93	ca-1		0.155		0.000776		2.14		0.0432				26A
143	10/12/93	dc-2		0.2067		0.000113		0.31		0.0463				26A
143	9/3/96	tk-1		0.168										
143	9/3/96	tk-2		0.178										
143	10/12/93	tk-2		0.19		0.0126		34.7		1.92				26A
144	12/13/95	dc-1		0.21		0.00856		23.55		1.5		0.152		26A

TABLE 29. (CONTINUED)

FACID	Test Date	Source ID	Temp (deg F) controlled	Oxygen (%) uncontrolled	Oxygen (%) controlled	HF - gr/dscf uncontrolled	HF - gr/dscf - controlled	HF - ppm uncontrolled	HF - ppm controlled	HF - lb/hr uncontrolled	HF - lb/hr controlled	HF - lb/ton uncontrolled	HF lb/ton controlled	HF Test Method
144	12/13/95	tk-1		0.168		0.0534		147		5.25		0.530		26A
148	2/5/91	cta-1, mh-2	75		0.209									
148	2/5/91	g-1,s-1	67		0.209									
148	1/5/95	tk-1	269		0.171									
148	8/22/95	tk-1	327	0.179	0.181									
148	1/24/95	tk-1	297		0.179		0.002		5.5		0.3		0.020	13B
148	1/5/95	tk-1	281	0.175	0.189	0.03	0.0019	82.5	5.23	4.6	0.3	0.411	0.027	13B
148	8/31/93	tk-1								6.88		0.629		26A
148	6/10/99	tk-1	312		0.177		0.0024		6.6		0.0434		0.002	26A
149	11/12/96	tk-1		0.162		0.0567		155.8		6.7		0.540		26
150	6/8/95	dc-2		0.177										
150	3/29/95	tk-1	318		0.1507									
150	5/27/94	tk-1	273		0.1556									
150	6/7/95	tk-2	296		0.158									
150	6/7/95	tk-2	299	0.168	0.158	0.04857	0.0000874	133.6	0.24	5.6	0.012	0.509	0.001	13B
151	6/3/97	dc-1		0.21		0.000051				0.00531		0.000		26A
151	6/3/97	dc-1		0.21										
151	6/3/97	misc-1		0.21		0		0		0		0.000		26A
151	6/3/97	tk-1	277	0.17	0.17	0.03215	0	88.45	0	4.9	0	0.358	0.000	26A
151	6/3/97	tk-1	276.9	0.17	0.17									
151	6/3/97	wasteheat stack		0.21		0.0009				0.124		0.009		26A
151	6/3/97	wasteheat stack		0.21										
152	4/23/98	tk-1		0.1587		0.0361		99.32		1.67		0.503		26A
154	10/31/95	tk-1	136	0.146	0.148	0.174	0.000115	478.7	0.316	27.4	0.0169	2.071	0.001	13B

TABLE 29. (CONTINUED)

FACID	Test Date	Source ID	Temp (deg F) controlled	Oxygen (%) uncontrolled	Oxygen (%) controlled	HF - gr/dscf uncontrolled	HF - gr/dscf - controlled	HF - ppm uncontrolled	HF - ppm controlled	HF - lb/hr uncontrolled	HF - lb/hr controlled	HF - lb/ton uncontrolled	HF lb/ton controlled	HF Test Method
154	12/5/94	tk-2	123.4		0.168		0.00637		17.53		2.13		0.177	13B
154	10/28/98	tk-1	127	0.165	0.165	0.0702	0.000994	193	2.73	12.5	0.145	1.060	0.012	13B
155	7/2/98	tk-1	208	0.175	0.178									
155	7/10/98	tk-1	216	0.177	0.174									
155	7/2/98	tk-1	207	0.175	0.178	0.0618	0	170	0	8.97	0	0.846	0.000	26A
155	7/10/98	tk-1	215	0.179	0.174	0.0586	0.00157	161.2	4.32	8.8	0.272	0.782	0.024	26A
184	3/30/94	tk-1		0.196		0.00805		22.15		0.86		0.320		13
184	3/30/94	tk-2		0.196		0.00805		22.15		0.86		0.320		13
184	3/30/94	tk-3		0.196		0.00805		22.15		0.86		0.277		13
184	4/14/94	tk-1		0.187										
184	4/14/94	tk-2		0.187										
184	4/14/94	tk-3		0.187										
184	11/17/93	tk-3		0.165										
184	11/18/93	tk-3		0.165		0.0332		91.34		1.99		0.718		13
184	8/2/95	tk-1		0.176				0.0183		1.81				26A
184	8/2/95	tk-2		0.176				0.0183		1.81				26A
184	8/2/95	tk-3		0.176				0.0183		1.81				26A

TABLE 30. TEST DATA SUMMARY, PART III

FACID	Test Date	Source ID	TF - gr/dscf - uncontrolled	TF - gr/dscf - controlled	TF - ppm - uncontrolled	TF - ppm - controlled	TF - lb/hr - uncontrolled	TF - lb/hr - controlled	TF - lb/ton - uncontrolled	TF - lb/ton - controlled
1	5/21/97	tk-2								
1	5/21/97	tk-2								
7	9/10/91	tk-1	0.02				2.54			
7	9/10/91	tk-1								
9	3/4/99	tk-1, tk-2								
9	3/4/99	tk-1								
9	3/4/99	tk-2								
11	1/23/97	tk-1								
13	2/15/96	tk-1	0.0407	0.00266			7.2	0.473	0.684	0.045
13	6/29/95	tk-1								
13	3/1/95	tk-1		0.00338		9.3		0.62		
13	6/29/95	tk-1,tk-2								
13	6/29/95	tk-1		0.00311				0.585		0.056
13	2/15/96	tk-1,tk-2	0.0407	0.00266			14.4	0.946	0.684	0.045
13	6/29/95	tk-1,tk-2		0.00311				1.17		0.056
13	3/1/95	tk-1,tk-2		0.00338		9.3		1.24		
13	3/1/95	tk-2		0.00338		9.3		0.62		
13	2/15/96	tk-2	0.0407	0.00266			7.2	0.473	0.684	0.045
13	6/29/95	tk-2								
13	6/29/95	tk-2		0.00311				0.585		0.056
23	7/6/93	tk-3	0.0103		28.28		1.4		0.236	
31	4/22/93	tk-4								
31	11/19/98	tk-3, tk-4								
31	11/19/98	tk-3								
31	11/19/98	tk-4								
31	3/24/99	tk-3, tk-4								
31	3/24/99	tk-3								
31	3/24/99	tk-4								
32	3/7/97	tk-1								

TABLE 30. (CONTINUED)

FACID	Test Date	Source ID	TF - gr/dscf - uncontrolled	TF - gr/dscf - controlled	TF - ppm - uncontrolled	TF - ppm - controlled	TF - lb/hr - uncontrolled	TF - lb/hr - controlled	TF - lb/ton - uncontrolled	TF - lb/ton - controlled
32	7/11/97	tk-3								
41	8/29/94	dc-1								
41	5/11/94	dc-1								
41	8/29/94	dc-2								
41	5/11/94	dc-2								
41	5/11/94	tk-1								
41	8/29/94	tk-1								
46	5/15/97	tk-1								
47	8/19/97	tk-2								
48	6/2/95	tk-1	0.0217		59.6		2.14		0.327	
49	10/17/95	tk-2								
49	10/19/95	tk-2								
51	5/14/97	tk-1								
51	5/14/97	tk-2								
52	3/9/93	dc-2								
52	3/9/93	tk-2								
57	7/27/93	g-1,s-1								
57	7/27/93	tk-1								
58	10/11/83	tk-1								
58	7/21/82	tk-2								
59	4/22/86	tk-2								
60	10/17/90	tk-2								
60	10/17/90	tk-3								
65	3/4/96	tk-2	0.0243				2.7		0.736	
65	3/4/96	tk-2								
70		tk-1								
70		tk-2								
72	11/29/93	tk-2								

TABLE 30. (CONTINUED)

FACID	Test Date	Source ID	TF - gr/dscf - uncontrolled	TF - gr/dscf - controlled	TF - ppm - uncontrolled	TF - ppm - controlled	TF - lb/hr - uncontrolled	TF - lb/hr - controlled	TF - lb/ton - uncontrolled	TF - lb/ton - controlled
72	11/29/93	tk-2								
73	8/27/96	tk-1	0.0058				0.7161		0.057	
73	8/27/96	tk-2	0.0035				0.4595		0.037	
77		tk-1								
77	12/2/99	tk-2								
84	4/22/97	tk-1								
85	6/3/97	dc-1								
85	6/3/97	tk-1								
88	4/22/94	tk-1	0.04045		111.3		6.67			
101	12/1/94	ds-1,tk-2,tk-3								
101	12/1/94	tk-2								
101	12/1/94	tk-3								
111	7/21/89	tk-1								
111	7/25/85	tk-1								
111	3/3/92	tk-1								
112	11/8/93	cr-3,g-3,s-3								
112	5/4/94	pk-12 to pk-17					5.69		0.767	
112	5/3/94	tk-2					4.64		1.606	
112	5/3/94	tk-2, tk-3					9.28		1.606	
112	5/3/94	tk-3					4.64		1.606	
112	5/2/94	tk-5					2.86		0.834	
112	11/8/93	tk-6								
112	5/2/94	tk-6					2.94		0.951	
112	11/8/93	tk-6								
112	11/8/93	tk-6								
123	12/5/95	tk-1	0.00344				0.438		0.137	
127	10/6/92	dc-1	0.000349		0.96		0.122			
127	10/8/92	pk-6	0.0414		113.93		2.316		2.325	

TABLE 30. (CONTINUED)

FACID	Test Date	Source ID	TF - gr/dscf - uncontrolled	TF - gr/dscf - controlled	TF - ppm - uncontrolled	TF - ppm - controlled	TF - lb/hr - uncontrolled	TF - lb/hr - controlled	TF - lb/ton - uncontrolled	TF - lb/ton - controlled
128	6/18/91	dc-1	0		0		0		0.000	
128	6/18/91	tk-1		0.000284		0.782		0.0764		0.004
129	10/22/97	dc-1	0.00054		1.49		0.136			
129	9/6/96	tk-1								
129	10/22/97	tk-1								
129	5/29/92	tk-1	0.0186		51.23		2.95			
130	5/3/94	tk-2					2.26		0.897	
131	2/10/93	tk-1	0.048		132		4.78		0.372	
131	2/10/93	tk-1								
131	2/10/93	tk-1								
133	11/8/95	tk-3								
133	11/8/95	tk-3								
133	11/8/95	tk-3								
133	9/10/91	tk-3								
133	9/10/91	tk-2								
133	9/10/91	tk-2	0.002				0.16		0.016	
133	9/10/91	tk-3	0.019				7.64		0.404	
135	4/18/97	tk-2	0.0248				3.94		0.505	
135	4/18/97	tk-2								
137	10/27/92	g-1,s-1								
137	10/27/92	tk-1								
137	10/27/92	tk-1,tk-2,ds-1								
137	10/27/92	tk-2								
137	10/27/92	tk-3								
137	10/27/92	tk-3,tk-4								
137	6/8/95	tk-4								
137	10/27/92	tk-4								
137	3/3/98	tk-5								

TABLE 30. (CONTINUED)

FACID	Test Date	Source ID	TF - gr/dscf - uncontrolled	TF - gr/dscf - controlled	TF - ppm - uncontrolled	TF - ppm - controlled	TF - lb/hr - uncontrolled	TF - lb/hr - controlled	TF - lb/ton - uncontrolled	TF - lb/ton - controlled
137	3/6/98	tk-5								
138	6/1/86	tk-1								
141	9/16/93	tk-1								
143	10/12/93	ca-1								
143	10/12/93	dc-2								
143	9/3/96	tk-1								
143	9/3/96	tk-2								
143	10/12/93	tk-2								
144	12/13/95	dc-1								
144	12/13/95	tk-1								
148	2/5/91	cta-1, mh-2								
148	2/5/91	g-1,s-1								
148	1/5/95	tk-1								
148	8/22/95	tk-1								
148	1/24/95	tk-1		0.00192				0.278		0.025
148	1/5/95	tk-1	0.03	0.0019			4.6	0.3	0.411	0.027
148	8/31/93	tk-1								
148	6/10/99	tk-1								
149	11/12/96	tk-1								
150	6/8/95	dc-2								
150	3/29/95	tk-1								
150	5/27/94	tk-1								
150	6/7/95	tk-2								
150	6/7/95	tk-2	0.04857	0.0000874			5.6	0.012	0.509	0.001
151	6/3/97	dc-1								
151	6/3/97	dc-1								
151	6/3/97	misc-1								
151	6/3/97	tk-1								

TABLE 30. (CONTINUED)

FACID	Test Date	Source ID	TF - gr/dscf - uncontrolled	TF - gr/dscf - controlled	TF - ppm - uncontrolled	TF - ppm - controlled	TF - lb/hr - uncontrolled	TF - lb/hr - controlled	TF - lb/ton - uncontrolled	TF - lb/ton - controlled
151	6/3/97	tk-1								
151	6/3/97	wasteheat stack								
151	6/3/97	wasteheat stack								
152	4/23/98	tk-1								
154	10/31/95	tk-1	0.174	0.000115			27.4	0.0169	2.071	0.001
154	12/5/94	tk-2		0.00637				2.13		0.177
154	10/28/98	tk-1	0.0702	0.000994	193	2.73	12.5	0.145	1.060	0.012
155	7/2/98	tk-1								
155	7/10/98	tk-1								
155	7/2/98	tk-1								
155	7/10/98	tk-1								
184	3/30/94	tk-1	0.00805				0.86		0.330	
184	3/30/94	tk-2	0.00805				0.86		0.330	
184	3/30/94	tk-3	0.00805				0.86		0.277	
184	4/14/94	tk-1								
184	4/14/94	tk-2								
184	4/14/94	tk-3								
184	11/17/93	tk-3								
184	11/18/93	tk-3								
184	8/2/95	tk-1								
184	8/2/95	tk-2								
184	8/2/95	tk-3								

TABLE 31. TEST DATA SUMMARY, PART IV

FACID	Test Date	Source ID	HCl - ppm - uncontrolled	HCl - ppm - controlled	HCl - lb/hr - uncontrolled	HCl - lb/hr - controlled	HCl - lb/ton - uncontrolled	HCl - lb/ton - controlled	HCl Test Method
1	5/21/97	tk-2							
1	5/21/97	tk-2							
7	9/10/91	tk-1							
7	9/10/91	tk-1							
9	3/4/99	tk-1, tk-2				0.056		0.002	26A
9	3/4/99	tk-1				0.028		0.002	26A
9	3/4/99	tk-2				0.028		0.002	26A
11	1/23/97	tk-1							
13	2/15/96	tk-1							
13	6/29/95	tk-1							
13	3/1/95	tk-1							
13	6/29/95	tk-1,tk-2							
13	6/29/95	tk-1							
13	2/15/96	tk-1,tk-2							
13	6/29/95	tk-1,tk-2							
13	3/1/95	tk-1,tk-2							
13	3/1/95	tk-2							
13	2/15/96	tk-2							
13	6/29/95	tk-2							
13	6/29/95	tk-2							
23	7/6/93	tk-3							
31	4/22/93	tk-4							
31	11/19/98	tk-3, tk-4							
31	11/19/98	tk-3							
31	11/19/98	tk-4							
31	3/24/99	tk-3, tk-4	not detected	not detected					26A
31	3/24/99	tk-3	not detected	not detected					26A
31	3/24/99	tk-4	not detected	not detected					26A
32	3/7/97	tk-1							
32	7/11/97	tk-3							

TABLE 31. (CONTINUED)

FACID	Test Date	Source ID	HCl - ppm - uncontrolled	HCl - ppm - controlled	HCl - lb/hr - uncontrolled	HCl - lb/hr - controlled	HCl - lb/ton - uncontrolled	HCl - lb/ton - controlled	HCl Test Method
41	8/29/94	dc-1							
41	5/11/94	dc-1							
41	8/29/94	dc-2							
41	5/11/94	dc-2							
41	5/11/94	tk-1							
41	8/29/94	tk-1							
46	5/15/97	tk-1							
47	8/19/97	tk-2							
48	6/2/95	tk-1							
49	10/17/95	tk-2							
49	10/19/95	tk-2	25.500		2.170		0.205		26A
51	5/14/97	tk-1	5.610		0.327		0.041		26
51	5/14/97	tk-2	5.230		0.450		0.046		26
52	3/9/93	dc-2							
52	3/9/93	tk-2							
57	7/27/93	g-1,s-1							
57	7/27/93	tk-1							
58	10/11/83	tk-1							
58	7/21/82	tk-2							
59	4/22/86	tk-2							
60	10/17/90	tk-2							
60	10/17/90	tk-3							
65	3/4/96	tk-2							
65	3/4/96	tk-2							
70		tk-1							
70		tk-2							
72	11/29/93	tk-2			1.300		0.052		26A
72	11/29/93	tk-2							
73	8/27/96	tk-1							
73	8/27/96	tk-2							

TABLE 31. (CONTINUED)

FACID	Test Date	Source ID	HCl - ppm - uncontrolled	HCl - ppm - controlled	HCl - lb/hr - uncontrolled	HCl - lb/hr - controlled	HCl - lb/ton - uncontrolled	HCl - lb/ton - controlled	HCl Test Method
77		tk-1							
77	12/2/99	tk-2	343.000	0.581	30.000	0.058	2.720	0.005	26A
84	4/22/97	tk-1							
85	6/3/97	dc-1							
85	6/3/97	tk-1							
88	4/22/94	tk-1							
101	12/1/94	ds-1,tk-2,tk-3							
101	12/1/94	tk-2							
101	12/1/94	tk-3							
111	7/21/89	tk-1							
111	7/25/85	tk-1							
111	3/3/92	tk-1							
112	11/8/93	cr-3,g-3,s-3							
112	5/4/94	pk-12 to pk-17	83.000		12.050		1.624		26
112	5/3/94	tk-2			2.270		0.785		26
112	5/3/94	tk-2, tk-3			4.530		0.784		26
112	5/3/94	tk-3			2.270		0.785		26
112	5/2/94	tk-5			3.050		0.889		26
112	11/8/93	tk-6							
112	5/2/94	tk-6			1.800		0.583		26
112	11/8/93	tk-6							
112	11/8/93	tk-6	0.560		0.063		0.018		26A
123	12/5/95	tk-1							
127	10/6/92	dc-1							
127	10/8/92	pk-6							
128	6/18/91	dc-1							
128	6/18/91	tk-1							
129	10/22/97	dc-1	0.170		0.028				26A
129	9/6/96	tk-1			0.387				26A
129	10/22/97	tk-1	15.600		1.570				26A

TABLE 31. (CONTINUED)

FACID	Test Date	Source ID	HCl - ppm - uncontrolled	HCl - ppm - controlled	HCl - lb/hr - uncontrolled	HCl - lb/hr - controlled	HCl - lb/ton - uncontrolled	HCl - lb/ton - controlled	HCl Test Method
129	5/29/92	tk-1							
130	5/3/94	tk-2			2.040		0.810		26
131	2/10/93	tk-1							
131	2/10/93	tk-1							
131	2/10/93	tk-1	18.400		1.250		0.097		26A
133	11/8/95	tk-3							
133	11/8/95	tk-3			8.140		0.433		26
133	11/8/95	tk-3							
133	9/10/91	tk-3							
133	9/10/91	tk-2							
133	9/10/91	tk-2							
133	9/10/91	tk-3							
135	4/18/97	tk-2							
135	4/18/97	tk-2							
137	10/27/92	g-1,s-1							
137	10/27/92	tk-1							
137	10/27/92	tk-1,tk-2,ds-1							
137	10/27/92	tk-2							
137	10/27/92	tk-3							
137	10/27/92	tk-3,tk-4							
137	6/8/95	tk-4							
137	10/27/92	tk-4							
137	3/3/98	tk-5	12.830		0.856		0.120		26A
137	3/6/98	tk-5	10.270		0.663		0.071		26A
138	6/1/86	tk-1							
141	9/16/93	tk-1							
143	10/12/93	ca-1							
143	10/12/93	dc-2							
143	9/3/96	tk-1			0.310				26A
143	9/3/96	tk-2			0.530				26A

TABLE 31. (CONTINUED)

FACID	Test Date	Source ID	HCl - ppm - uncontrolled	HCl - ppm - controlled	HCl - lb/hr - uncontrolled	HCl - lb/hr - controlled	HCl - lb/ton - uncontrolled	HCl - lb/ton - controlled	HCl Test Method
143	10/12/93	tk-2							
144	12/13/95	dc-1	0.800		0.093		0.009		26A
144	12/13/95	tk-1	24.020		1.560		0.158		26A
148	2/5/91	cta-1, mh-2							
148	2/5/91	g-1,s-1							
148	1/5/95	tk-1							
148	8/22/95	tk-1	36.500	20.400	4.510	2.540	0.403	0.227	26
148	1/24/95	tk-1							
148	1/5/95	tk-1	48.300	37.700	4.900	4.000	0.438	0.358	26
148	8/31/93	tk-1			2.850		0.261		26A
148	6/10/99	tk-1				1.090		0.058	26A
149	11/12/96	tk-1	5.090		0.400		0.032		26
150	6/8/95	dc-2							
150	3/29/95	tk-1							
150	5/27/94	tk-1							
150	6/7/95	tk-2							
150	6/7/95	tk-2							
151	6/3/97	dc-1	0.000		0.000		0.000		26A
151	6/3/97	dc-1							26A
151	6/3/97	misc-1	0.000		0.000		0.000		26A
151	6/3/97	tk-1	27.400	0.463	2.770	0.051	0.202	0.004	26A
151	6/3/97	tk-1							
151	6/3/97	wasteheat stack	1.910		0.174		0.013		26A
151	6/3/97	wasteheat stack							
152	4/23/98	tk-1							
154	10/31/95	tk-1							
154	12/5/94	tk-2							
154	10/28/98	tk-1							
155	7/2/98	tk-1							
155	7/10/98	tk-1							

TABLE 31. (CONTINUED)

FACID	Test Date	Source ID	HCl - ppm - uncontrolled	HCl - ppm - controlled	HCl - lb/hr - uncontrolled	HCl - lb/hr - controlled	HCl - lb/ton - uncontrolled	HCl - lb/ton - controlled	HCl Test Method
155	7/2/98	tk-1	7.400	0.000	0.708	0.000	0.067	0.000	26A
155	7/10/98	tk-1	8.450	0.000	0.847	0.000	0.075	0.000	26A
184	3/30/94	tk-1							
184	3/30/94	tk-2							
184	3/30/94	tk-3							
184	4/14/94	tk-1							
184	4/14/94	tk-2							
184	4/14/94	tk-3							
184	11/17/93	tk-3							
184	11/18/93	tk-3							
184	8/2/95	tk-1			0.114				26A
184	8/2/95	tk-2			0.114				26A
184	8/2/95	tk-3			0.114				26A

TABLE 32. TEST DATA SUMMARY, PART V

FACID	Test Date	Source ID	SO2 - ppm - uncontrolled	SO2 - ppm - controlled	SO2 - lb/hr - uncontrolled	SO2 - lb/hr - controlled	SO2 - lb/ton - uncontrolled	SO2 - lb/ton - controlled	SO2 Test Method
1	5/21/97	tk-2							
1	5/21/97	tk-2	557	7.8	105.00	1.35	10.09	0.13	8
7	9/10/91	tk-1							
7	9/10/91	tk-1							
9	3/4/99	tk-1, tk-2							
9	3/4/99	tk-1							
9	3/4/99	tk-2							
11	1/23/97	tk-1							
13	2/15/96	tk-1							
13	6/29/95	tk-1		46.6		10.45		1.00	6
13	3/1/95	tk-1							
13	6/29/95	tk-1,tk-2		46.6		20.9		1.01	6
13	6/29/95	tk-1							
13	2/15/96	tk-1,tk-2							
13	6/29/95	tk-1,tk-2							
13	3/1/95	tk-1,tk-2							
13	3/1/95	tk-2							
13	2/15/96	tk-2							
13	6/29/95	tk-2		46.6		10.45		1.00	6
13	6/29/95	tk-2							
23	7/6/93	tk-3							
31	4/22/93	tk-4							
31	11/19/98	tk-3, tk-4							
31	11/19/98	tk-3							
31	11/19/98	tk-4							
31	3/24/99	tk-3, tk-4							
31	3/24/99	tk-3							
31	3/24/99	tk-4							
32	3/7/97	tk-1							
32	7/11/97	tk-3							

TABLE 32. (CONTINUED)

FACID	Test Date	Source ID	SO2 - ppm - uncontrolled	SO2 - ppm - controlled	SO2 - lb/hr - uncontrolled	SO2 - lb/hr - controlled	SO2 - lb/ton - uncontrolled	SO2 - lb/ton - controlled	SO2 Test Method
41	8/29/94	dc-1	0		0.00		0.00		6
41	5/11/94	dc-1	0		0.00		0.00		6
41	8/29/94	dc-2			0.03		0.00		6
41	5/11/94	dc-2	0		0.00		0.00		6
41	5/11/94	tk-1			41.30		4.31		6
41	8/29/94	tk-1			125.00		10.44		6
46	5/15/97	tk-1							
47	8/19/97	tk-2	17		1.30		0.30		6C
48	6/2/95	tk-1							
49	10/17/95	tk-2	4.43		0.66		0.06		6C
49	10/19/95	tk-2							
51	5/14/97	tk-1	17.1		1.91		0.24		6
51	5/14/97	tk-2	3.75		0.98		0.10		6
52	3/9/93	dc-2	0		0.00		0.00		6C
52	3/9/93	tk-2	98.76	98.76	12.93	12.93	1.21	1.21	6C
57	7/27/93	g-1,s-1							
57	7/27/93	tk-1							
58	10/11/83	tk-1							
58	7/21/82	tk-2							
59	4/22/86	tk-2							
60	10/17/90	tk-2							
60	10/17/90	tk-3							
65	3/4/96	tk-2							
65	3/4/96	tk-2							
70		tk-1			15.00	7.5			?
70		tk-2			19.70	14.2			?
72	11/29/93	tk-2							
72	11/29/93	tk-2			13.51		0.54		6C
73	8/27/96	tk-1	116		16.45		1.32		6C
73	8/27/96	tk-2	136		20.60		1.65		6C

TABLE 32. (CONTINUED)

FACID	Test Date	Source ID	SO2 - ppm - uncontrolled	SO2 - ppm - controlled	SO2 - lb/hr - uncontrolled	SO2 - lb/hr - controlled	SO2 - lb/ton - uncontrolled	SO2 - lb/ton - controlled	SO2 Test Method
77		tk-1							
77	12/2/99	tk-2	266	0.186	40.90	0.0327	3.72	0.00	6C
84	4/22/97	tk-1							
85	6/3/97	dc-1							
85	6/3/97	tk-1							
88	4/22/94	tk-1							
101	12/1/94	ds-1,tk-2,tk-3							
101	12/1/94	tk-2							
101	12/1/94	tk-3							
111	7/21/89	tk-1	24.2		3.71		0.34		6
111	7/25/85	tk-1	34.5		5.76		0.49		6
111	3/3/92	tk-1	17		2.71		0.35		6
112	11/8/93	cr-3,g-3,s-3							
112	5/4/94	pk-12 to pk-17			23.47		3.16		6C
112	5/3/94	tk-2			15.73		5.44		6C
112	5/3/94	tk-2, tk-3			31.45		5.44		6C
112	5/3/94	tk-3			15.73		5.44		6C
112	5/2/94	tk-5			66.98		19.53		6C
112	11/8/93	tk-6	52.9		10.50		3.02		6C
112	5/2/94	tk-6			8.79		2.84		6C
112	11/8/93	tk-6							
112	11/8/93	tk-6							
123	12/5/95	tk-1	3.01		0.45		0.14		6C
127	10/6/92	dc-1							
127	10/8/92	pk-6							
128	6/18/91	dc-1	0.791		0.46		0.02		6
128	6/18/91	tk-1		39.75		12.4		0.65	6
129	10/22/97	dc-1	0.3		0.08				6C
129	9/6/96	tk-1							
129	10/22/97	tk-1	51.3		9.03				6

TABLE 32. (CONTINUED)

FACID	Test Date	Source ID	SO2 - ppm - uncontrolled	SO2 - ppm - controlled	SO2 - lb/hr - uncontrolled	SO2 - lb/hr - controlled	SO2 - lb/ton - uncontrolled	SO2 - lb/ton - controlled	SO2 Test Method
129	5/29/92	tk-1							
130	5/3/94	tk-2			7.97		3.16		6C
131	2/10/93	tk-1							
131	2/10/93	tk-1	23.66		2.93		0.23		8
131	2/10/93	tk-1							
133	11/8/95	tk-3			19.54		1.04		6C
133	11/8/95	tk-3							
133	11/8/95	tk-3							
133	9/10/91	tk-3							
133	9/10/91	tk-2							
133	9/10/91	tk-2							
133	9/10/91	tk-3							
135	4/18/97	tk-2							
135	4/18/97	tk-2							
137	10/27/92	g-1,s-1							
137	10/27/92	tk-1							
137	10/27/92	tk-1,tk-2,ds-1							
137	10/27/92	tk-2							
137	10/27/92	tk-3							
137	10/27/92	tk-3,tk-4							
137	6/8/95	tk-4							
137	10/27/92	tk-4							
137	3/3/98	tk-5							
137	3/6/98	tk-5							
138	6/1/86	tk-1							
141	9/16/93	tk-1			22.61				
143	10/12/93	ca-1	44.6		3.04				6C
143	10/12/93	dc-2	5.51		2.76				6C
143	9/3/96	tk-1							
143	9/3/96	tk-2							

TABLE 32. (CONTINUED)

FACID	Test Date	Source ID	SO2 - ppm - uncontrolled	SO2 - ppm - controlled	SO2 - lb/hr - uncontrolled	SO2 - lb/hr - controlled	SO2 - lb/ton - uncontrolled	SO2 - lb/ton - controlled	SO2 Test Method
143	10/12/93	tk-2	45.3		8.40				6C
144	12/13/95	dc-1	6.05		1.23		0.12		6C
144	12/13/95	tk-1	76.12		8.69		0.88		6C
148	2/5/91	cta-1, mh-2							
148	2/5/91	g-1,s-1							
148	1/5/95	tk-1	11.5	4.2	2.04	0.685	0.18	0.06	6
148	8/22/95	tk-1	47	50.3	10.10	11	0.90	0.98	6C
148	1/24/95	tk-1							
148	1/5/95	tk-1	11.5		2.04		0.18		6
148	8/31/93	tk-1			7.09		0.65		8
148	6/10/99	tk-1		28.8		6.12		0.33	6C
149	11/12/96	tk-1			14.80		1.19		8
150	6/8/95	dc-2	3		1.19		0.11		6C
150	3/29/95	tk-1		355.9		48.7		4.25	6C
150	5/27/94	tk-1		579		63.4		7.92	6C
150	6/7/95	tk-2							
150	6/7/95	tk-2	635	492	75.78	67.45	6.89	6.13	6C
151	6/3/97	dc-1							
151	6/3/97	dc-1	0.28		0.04		0.00		6
151	6/3/97	misc-1	0.21		0.04		0.00		6
151	6/3/97	tk-1							
151	6/3/97	tk-1	278	70.4	49.20	14	3.59	1.02	6
151	6/3/97	wasteheat stack							
151	6/3/97	wasteheat stack	3.17		0.51		0.04		6
152	4/23/98	tk-1							
154	10/31/95	tk-1	141	0.377	25.80	0.065	1.95	0.00	6C
154	12/5/94	tk-2	176.47	30.4	68.80	11.8	5.71	0.98	6C
154	10/28/98	tk-1	65.7	4.5	14.00	0.81	1.19	0.07	6C
155	7/2/98	tk-1	179	49	29.10	9.08	2.75	0.86	8
155	7/10/98	tk-1	172	33.6	30.40	6.37	2.70	0.57	8

TABLE 32. (CONTINUED)

FACID	Test Date	Source ID	SO2 - ppm - uncontrolled	SO2 - ppm - controlled	SO2 - lb/hr - uncontrolled	SO2 - lb/hr - controlled	SO2 - lb/ton - uncontrolled	SO2 - lb/ton - controlled	SO2 Test Method
155	7/2/98	tk-1							
155	7/10/98	tk-1							
184	3/30/94	tk-1							
184	3/30/94	tk-2							
184	3/30/94	tk-3							
184	4/14/94	tk-1			13.20		5.08		6C
184	4/14/94	tk-2			13.20		5.08		6C
184	4/14/94	tk-3			13.20		4.26		6C
184	11/17/93	tk-3	24		1.99		0.72		6C
184	11/18/93	tk-3							
184	8/2/95	tk-1	37.86		4.35				6C
184	8/2/95	tk-2	37.86		4.35				6C
184	8/2/95	tk-3	37.86		4.35				6C

TABLE 33. TEST DATA SUMMARY, PART IV

FACID	Test Date	Source ID	PM - gr/dscf - uncontrolled	PM - gr/dscf - controlled	PM - lb/hr - uncontrolled	PM - lb/hr - controlled	PM - lb/ton - uncontrolled	PM - lb/ton - controlled	PM Test Method
1	5/21/97	tk-2	0.061	0.001	9.740	0.121	0.936	0.012	5
1	5/21/97	tk-2	0.061	0.000	9.870	0.035	0.948	0.003	5
7	9/10/91	tk-1							
7	9/10/91	tk-1	0.020		2.630				5
9	3/4/99	tk-1, tk-2							
9	3/4/99	tk-1							
9	3/4/99	tk-2							
11	1/23/97	tk-1							
13	2/15/96	tk-1		0.024		4.330		0.411	5
13	6/29/95	tk-1							
13	3/1/95	tk-1		0.021		3.990			5
13	6/29/95	tk-1,tk-2							
13	6/29/95	tk-1		0.018		3.280		0.315	5
13	2/15/96	tk-1,tk-2		0.024		8.660		0.411	5
13	6/29/95	tk-1,tk-2		0.018		6.550		0.315	5
13	3/1/95	tk-1,tk-2		0.021		7.970			5
13	3/1/95	tk-2		0.021		3.990			5
13	2/15/96	tk-2		0.024		4.330		0.411	5
13	6/29/95	tk-2							
13	6/29/95	tk-2		0.018		3.280		0.315	5
23	7/6/93	tk-3							
31	4/22/93	tk-4							
31	11/19/98	tk-3, tk-4							
31	11/19/98	tk-3							
31	11/19/98	tk-4							
31	3/24/99	tk-3, tk-4				1.65		0.0732	5
31	3/24/99	tk-3				0.8325		0.0732	5
31	3/24/99	tk-4				0.8325		0.0732	5
32	3/7/97	tk-1	0.005		0.434		0.056		5
32	7/11/97	tk-3	0.004		0.440		0.050		5

TABLE 33. (CONTINUED)

FACID	Test Date	Source ID	PM - gr/dscf - uncontrolled	PM - gr/dscf - controlled	PM - lb/hr - uncontrolled	PM - lb/hr - controlled	PM - lb/ton - uncontrolled	PM - lb/ton - controlled	PM Test Method
41	8/29/94	dc-1	0.003		0.419		0.070		5
41	5/11/94	dc-1	0.005		0.663		0.138		5
41	8/29/94	dc-2	0.002		0.240		0.040		5
41	5/11/94	dc-2	0.002		0.339		0.071		5
41	5/11/94	tk-1	0.038		4.250		0.444		5
41	8/29/94	tk-1	0.106		15.800		1.320		5
46	5/15/97	tk-1							
47	8/19/97	tk-2							
48	6/2/95	tk-1							
49	10/17/95	tk-2	0.003		0.370		0.035		5
49	10/19/95	tk-2							
51	5/14/97	tk-1							
51	5/14/97	tk-2							
52	3/9/93	dc-2							
52	3/9/93	tk-2							
57	7/27/93	g-1,s-1		0.003		0.428		0.007	201A
57	7/27/93	tk-1	0.125		4.670		0.697		29
58	10/11/83	tk-1	0.071		4.810		0.897		5
58	7/21/82	tk-2		0.002		0.397		0.043	5
59	4/22/86	tk-2	0.055		10.600		0.860		5
60	10/17/90	tk-2	0.197		0.048		0.021		5
60	10/17/90	tk-3	0.124		7.140		0.763		5
65	3/4/96	tk-2							
65	3/4/96	tk-2							
70		tk-1			9.100	5.200			
70		tk-2			1.500	0.004			
72	11/29/93	tk-2							
72	11/29/93	tk-2			24.090		0.965		5
73	8/27/96	tk-1	0.045		5.585		0.447		5
73	8/27/96	tk-2	0.050		6.580		0.527		5

TABLE 33. (CONTINUED)

FACID	Test Date	Source ID	PM - gr/dscf - uncontrolled	PM - gr/dscf - controlled	PM - lb/hr - uncontrolled	PM - lb/hr - controlled	PM - lb/ton - uncontrolled	PM - lb/ton - controlled	PM Test Method
77		tk-1							
77	12/2/99	tk-2		0.004		0.541		0.049	5
84	4/22/97	tk-1							
85	6/3/97	dc-1	0.027		6.220		0.750		5
85	6/3/97	tk-1	0.128		5.720		0.690		5
88	4/22/94	tk-1							
101	12/1/94	ds-1,tk-2,tk-3							
101	12/1/94	tk-2							
101	12/1/94	tk-3							
111	7/21/89	tk-1	0.023		3.030		0.281		5
111	7/25/85	tk-1	0.028		4.090		0.348		5
111	3/3/92	tk-1	0.018		2.500		0.319		5
112	11/8/93	cr-3,g-3,s-3	2.090	0.001	365.000	0.220	8.548	0.005	201A
112	5/4/94	pk-12 to pk-17			9.310		1.255		5
112	5/3/94	tk-2			8.300		2.872		5
112	5/3/94	tk-2, tk-3			16.590		2.870		5
112	5/3/94	tk-3			8.300		2.872		5
112	5/2/94	tk-5			10.430		3.041		5
112	11/8/93	tk-6	0.006		1.100		0.316		201A
112	5/2/94	tk-6			6.710		2.172		5
112	11/8/93	tk-6	0.009		1.600		0.460		29
112	11/8/93	tk-6	0.009		1.400		0.402		26A (mod.)
123	12/5/95	tk-1							
127	10/6/92	dc-1							
127	10/8/92	pk-6							
128	6/18/91	dc-1							
128	6/18/91	tk-1		0.016		4.417		0.230	5
129	10/22/97	dc-1	0.002		0.571				5
129	9/6/96	tk-1							
129	10/22/97	tk-1	0.020		3.110				5

TABLE 33. (CONTINUED)

FACID	Test Date	Source ID	PM - gr/dscf - uncontrolled	PM - gr/dscf - controlled	PM - lb/hr - uncontrolled	PM - lb/hr - controlled	PM - lb/ton - uncontrolled	PM - lb/ton - controlled	PM Test Method
129	5/29/92	tk-1							
130	5/3/94	tk-2			2.870		1.139		5
131	2/10/93	tk-1							
131	2/10/93	tk-1							
131	2/10/93	tk-1							
133	11/8/95	tk-3							
133	11/8/95	tk-3							
133	11/8/95	tk-3	0.007		3.380		0.180		5
133	9/10/91	tk-3	0.014		5.900		0.312		5
133	9/10/91	tk-2	0.010		0.660		0.065		5
133	9/10/91	tk-2							
133	9/10/91	tk-3							
135	4/18/97	tk-2							
135	4/18/97	tk-2							
137	10/27/92	g-1,s-1	0.011		5.100		0.024		201A
137	10/27/92	tk-1	0.018		2.670		0.314		201A
137	10/27/92	tk-1,tk-2,ds-1	0.018		5.340		0.314		201A
137	10/27/92	tk-2	0.018		2.670		0.314		201A
137	10/27/92	tk-3	0.020		2.550		0.300		5
137	10/27/92	tk-3,tk-4	0.020		5.100		0.300		5
137	6/8/95	tk-4	0.009		1.050		0.091		5
137	10/27/92	tk-4	0.020		2.550		0.300		5
137	3/3/98	tk-5							
137	3/6/98	tk-5							
138	6/1/86	tk-1							
141	9/16/93	tk-1							
143	10/12/93	ca-1	0.037		2.200				5
143	10/12/93	dc-2	0.004		1.630				5
143	9/3/96	tk-1							
143	9/3/96	tk-2							

TABLE 33. (CONTINUED)

FACID	Test Date	Source ID	PM - gr/dscf - uncontrolled	PM - gr/dscf - controlled	PM - lb/hr - uncontrolled	PM - lb/hr - controlled	PM - lb/ton - uncontrolled	PM - lb/ton - controlled	PM Test Method
143	10/12/93	tk-2	0.010		1.610				5
144	12/13/95	dc-1	0.006		1.000		0.101		5
144	12/13/95	tk-1	0.025		2.480		0.251		5
148	2/5/91	cta-1, mh-2		0.002		0.030		0.003	5
148	2/5/91	g-1,s-1		0.004		0.790			5
148	1/5/95	tk-1		0.012		1.770		0.158	5
148	8/22/95	tk-1							
148	1/24/95	tk-1							
148	1/5/95	tk-1							
148	8/31/93	tk-1							
148	6/10/99	tk-1							
149	11/12/96	tk-1							
150	6/8/95	dc-2							
150	3/29/95	tk-1							
150	5/27/94	tk-1		0.004		0.360		0.045	5B
150	6/7/95	tk-2		0.001		0.070		0.006	5
150	6/7/95	tk-2							
151	6/3/97	dc-1							
151	6/3/97	dc-1	0.002		0.180		0.013		5
151	6/3/97	misc-1	0.002		0.382		0.028		5
151	6/3/97	tk-1							
151	6/3/97	tk-1	0.073	0.006	11.000	1.050	0.804	0.077	5
151	6/3/97	wasteheat stack							
151	6/3/97	wasteheat stack	0.004		0.488		0.036		5
152	4/23/98	tk-1							
154	10/31/95	tk-1	0.009	0.011	1.430	1.590	0.108	0.120	5
154	12/5/94	tk-2		0.025		8.420		0.699	5
154	10/28/98	tk-1							
155	7/2/98	tk-1							
155	7/10/98	tk-1							

TABLE 33. (CONTINUED)

FACID	Test Date	Source ID	PM - gr/dscf - uncontrolled	PM - gr/dscf - controlled	PM - lb/hr - uncontrolled	PM - lb/hr - controlled	PM - lb/ton - uncontrolled	PM - lb/ton - controlled	PM Test Method
155	7/2/98	tk-1	0.004	0.002	0.544	0.399	0.051	0.038	5
155	7/10/98	tk-1	0.010	0.004	1.490	0.621	0.132	0.055	5
184	3/30/94	tk-1	0.031		3.290		1.270		5
184	3/30/94	tk-2	0.031		3.290		1.270		5
184	3/30/94	tk-3	0.031		3.290		1.060		5
184	4/14/94	tk-1							
184	4/14/94	tk-2							
184	4/14/94	tk-3							
184	11/17/93	tk-3							
184	11/18/93	tk-3	0.014		0.844		0.305		5
184	8/2/95	tk-1	0.003		3.133				5
184	8/2/95	tk-2	0.003		3.133				5
184	8/2/95	tk-3	0.003		3.133				5

TABLE 34: TEST DATA SUMMARY, PART VII

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
1	5/21/97	tk-2	YES	60	10.6	3.67	1880	coal/natural gas	26.1	13.1	
1	5/21/97	tk-2	YES	60	10.6	3.67	1880	coal/natural gas	26.1	13.1	
7	9/10/91	tk-1	NO	30	9	3.39	2050	natural gas	25.9	9	Summary; no production rate provided
7	9/10/91	tk-1	NO	30	9	3.39	2050	natural gas	25.9	9	Summary; no production rate provided
9	3/4/99	tk-1, tk-2	YES	77	19.63	5.00	2050	natural gas		18	2 kilns; do not use; use data presented by kiln in this table
9	3/4/99	tk-1	YES	77	19.63	5.00	2050	natural gas		9	Data from test on 2 kilns (at outlet of DLA that controls both kilns), divided by 2 where appropriate
9	3/4/99	tk-2	YES	77	19.63	5.00	2050	natural gas		9	Data from test on 2 kilns (at outlet of DLA that controls both kilns), divided by 2 where appropriate
11	1/23/97	tk-1	NO	41.5	21.01	5.17	2030	natural gas	29.4	10.7	Summary
13	2/15/96	tk-1	YES	97	27.8	5.95	2150	natural gas	24.5	8.9	Data from test on 2 kilns, divided by 2 where appropriate; inlet emissions calculated using outlet flow rates
13	6/29/95	tk-1	YES	97	27.8	5.95	2150	natural gas	24.5	8.9	Data from test on 2 kilns, divided by 2 where appropriate
13	3/1/95	tk-1	NO	97	27.8	5.95	2150	natural gas	24.5	8.9	Summary; 2 test runs; no production rate; data from test on 2 kilns, divided by 2 where appropriate
13	6/29/95	tk-1,tk-2	YES								2 kilns; do not use
13	6/29/95	tk-1	YES	97	27.8	5.95	2150	natural gas	24.5	8.9	Data from test on 2 kilns, divided by 2 where appropriate
13	2/15/96	tk-1,tk-2	YES								Inlet emissions calculated using outlet flow rates; 2 kilns; do not use
13	6/29/95	tk-1,tk-2	YES								2 kilns; do not use
13	3/1/95	tk-1,tk-2	NO								Summary; 2 test runs; no production rate; 2 kilns; do not use
13	3/1/95	tk-2	NO	97	27.8	5.95	2150	natural gas	24.5	8.9	Summary; 2 test runs; no production rate; data from test on 2 kilns, divided by 2 where appropriate

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
13	2/15/96	tk-2	YES	97	27.8	5.95	2150	natural gas	24.5	8.9	Data from test on 2 kilns, divided by 2 where appropriate; inlet emissions calculated using outlet flow rates
13	6/29/95	tk-2	YES	97	27.8	5.95	2150	natural gas	24.5	8.9	Data from test on 2 kilns, divided by 2 where appropriate
13	6/29/95	tk-2	YES	97	27.8	5.95	2150	natural gas	24.5	8.9	Data from test on 2 kilns, divided by 2 where appropriate
23	7/6/93	tk-3	NO	40	7	2.99	2200	natural gas	13.5	3.41	Summary
31	4/22/93	tk-4	YES				1900	natural gas		9.5	
31	11/19/98	tk-3, tk-4	YES								2 kilns; do not use; use data presented by kiln in this table
31	11/19/98	tk-3	YES								Data from test on 2 kilns (at outlet of DLA that controls both kilns), divided by 2 where appropriate
31	11/19/98	tk-4	YES								Data from test on 2 kilns (at outlet of DLA that controls both kilns), divided by 2 where appropriate
31	3/24/99	tk-3, tk-4	YES								2 kilns; do not use; use data presented by kiln in this table
31	3/24/99	tk-3	YES								Data from test on 2 kilns, divided by 2 where appropriate; HCl not detected at inlet or outlet of DLA
31	3/24/99	tk-4	YES								Data from test on 2 kilns, divided by 2 where appropriate; HCl not detected at inlet or outlet of DLA
32	3/7/97	tk-1	YES				1900	natural gas		4.63	
32	7/11/97	tk-3	YES				1900	natural gas		5.4	M26A run by run data are missing from report
41	8/29/94	dc-1	YES				340	waste heat/natural gas	1.48	5.97	SO2 not detected during any test run

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
41	5/11/94	dc-1	YES				340	waste heat/natural gas	1.48	5.97	SO2 not detected during any test run
41	8/29/94	dc-2	YES				340	waste heat/natural gas	1.48	5.98	SO2 detected in only 1 of 3 test runs
41	5/11/94	dc-2	YES				340	waste heat/natural gas	1.48	5.98	SO2 not detected during any test run
41	5/11/94	tk-1	YES	40	11.67	3.85	1930	natural gas	20.2	11.95	SO2 Conc. 0.374 gr/dscf
41	8/29/94	tk-1	YES	40	11.67	3.85	1930	natural gas	20.2	11.95	SO2 Conc. 0.839 gr/dscf
46	5/15/97	tk-1	YES	46.5	10.5	3.66	2000	sawdust		8.55	Includes 2 stacks, one following a sawdust dryer heated w/kiln exhaust; parameters adjusted based on flow from DS and TK stacks where appropriate (moist., gr/dscf, temp)
47	8/19/97	tk-2	NO	30	4	2.26	2080	natural gas		2.31	Most of report without Appendices
48	6/2/95	tk-1	YES	28	7.07	3.00	2000	natural gas	16	7.82	Total fluorides and HF reported, but data are the same (different molecular wt used to calc. HF)
49	10/17/95	tk-2	YES	57.5			2000	natural gas	21.4	10.64	Also includes metals and TOC data
49	10/19/95	tk-2	YES	57.5			2000	natural gas	21.4	10.64	Assumed process rate equal to 10/17/95 test…likely to be a good assumption
51	5/14/97	tk-1	YES	28.5	10.6	3.67	2050	natural gas	20	6.63	Woodmold kiln
51	5/14/97	tk-2	YES	37.5	10.03	3.57	2050	natural gas	27	10.08	
52	3/9/93	dc-2	YES		19.64		350	waste heat		8.82	Single 1.5-hour test run
52	3/9/93	tk-2	YES	44	4.3	2.34	2000	coal/natural gas	18.9	8.82	Single 1.5-hour test run; measurements at baghouse outlet, considered to represent uncontrolled emissions
57	7/27/93	g-1,s-1	YES								EPA test.
57	7/27/93	tk-1	YES	27	4.2	2.31	1890	coal/natural gas	13.5	5.8	EPA test.

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
58	10/11/83	tk-1	YES	32	5.7	2.69	2000	natural gas	14.1	6.3	
58	7/21/82	tk-2	YES	58	7.1	3.01	1940	coal/natural gas	22	12.5	
59	4/22/86	tk-2	YES	35	7.1	3.01	1860	coal/natural gas	22	11.5	
60	10/17/90	tk-2	YES	30	6.5	2.88	2000	coal/natural gas	6.4	2.74	
60	10/17/90	tk-3	YES	36	7.1	3.01	2000	coal/natural gas	24.2	11.18	
65	3/4/96	tk-2	YES	51	9.1	3.40	2000	natural gas	13.9	3.42	Called plant for production rate; total fluorides
65	3/4/96	tk-2	YES	51	9.1	3.40	2000	natural gas	13.9	3.42	Called plant for production rate
70		tk-1	NO				1900	natural gas		7.7	Summary; incomplete; inlet and outlet tests during different years; do not use
70		tk-2	NO				1900	natural gas		7.7	Summary; incomplete; inlet and outlet tests during different years; do not use
72	11/29/93	tk-2	NO	32	18	4.79	2015	sawdust/natural gas	40	8.48	Summary; 2 kiln stacks and 1 sawdust dryer stack
72	11/29/93	tk-2	NO	32	18	4.79	2015	sawdust/natural gas	40	8.48	Summary; 2 kiln stacks and 1 sawdust dryer stack
73	8/27/96	tk-1	YES	45	10.8	3.71	1980	natural gas	29.1	11.56	Very low fluorides
73	8/27/96	tk-2	YES	45	10.8	3.71	1980	natural gas	29.1	11.56	Very low fluorides
77		tk-1	NO				1900	natural gas		5.5	Summary; almost no information provided; do not use
77	12/2/99	tk-2	YES					natural gas		11	Process rate provided by Frank DeVooght, TNRCC, who indicated that kiln was operating at about 90% capacity during the test
84	4/22/97	tk-1	NO	35	9	3.39	1980	coal/natural gas	23	8.79	Summary; no production rate provided
85	6/3/97	dc-1	YES		12.25		300	Waste heat		8.7	Dryer is heated with kiln exhaust and waste heat; do not use

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
85	6/3/97	tk-1	YES	50	9.8	3.53	1890	coal/natural gas	13.5	8.7	Appears that some kiln exhaust exits through the dryer stack, which also showed HF emissions
88	4/22/94	tk-1	NO		7.54		2000	Natural gas	17.8	5.9	Summary; no production rate provided
101	12/1/94	ds-1,tk-2,tk-3	YES								2 kilns; do not use; use data presented by kiln in this table
101	12/1/94	tk-2	YES	65	4.91	2.50	2000	Sawdust	20.3	10.63	Data from test on 2 kilns (at sawdust dryer outlet stack), divided by 2 where appropriate
101	12/1/94	tk-3	YES	65	4.91	2.50	2000	Sawdust	20.3	10.63	Data from test on 2 kilns (at sawdust dryer outlet stack), divided by 2 where appropriate
111	7/21/89	tk-1	NO	60	13.44	4.14	2000	Natural gas		8.73	Summary
111	7/25/85	tk-1	NO	60	13.44	4.14	2000	Natural gas		8.73	Summary
111	3/3/92	tk-1	NO	60	13.44	4.14	2000	Natural gas		8.73	Summary
112	11/8/93	cr-3,g-3,s-3	YES								Raw material moisture content of 3.93%
112	5/4/94	pk-12 to pk-17	NO								Emission survey; single 1 hour run during 168 hour burn cycle; do not use
112	5/3/94	tk-2	NO				2000	Natural gas		5.74	Data from test on 2 kilns, divided by 2 where appropriate; emission survey; single run; do not use
112	5/3/94	tk-2, tk-3	NO								2 kilns; do not use; emission survey; single run; do not use
112	5/3/94	tk-3	NO				2000	Natural gas		5.74	Data from test on 2 kilns, divided by 2 where appropriate; emission survey; single run; do not use
112	5/2/94	tk-5	NO	47	15.11	4.39	2000	Natural gas		3.08	Emission survey; single run; do not use
112	11/8/93	tk-6	YES	28	32.11	6.39	2000	Natural gas		3.08	
112	5/2/94	tk-6	NO	28	32.11	6.39	2000	Natural gas		3.08	Emission survey; single run; do not use
112	11/8/93	tk-6	YES	28	32.11	6.39	2000	Natural gas		3.08	
112	11/8/93	tk-6	YES	28	32.11	6.39	2000	Natural gas		3.08	HCl conc. = 0.000371 gr/dscf; 350 deg. F filter temp. for PM

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
123	12/5/95	tk-1	YES				2000	Natural gas	8.6	1.6	Clay pipe plant; test on PK not used--no detail provided; called plant for TK-1 prod. Rate
127	10/6/92	dc-1	NO				300	waste heat/natural gas		6	2 stacks tested. Parameters adjusted based on % of flow through each stack; single run; do not use
127	10/8/92	pk-6	NO				2100	Natural gas		0.996	Summary; prod. rate estimated on cont. basis; single run; do not use
128	6/18/91	dc-1	YES	65	19.6	5.00	300	Waste heat		15.875	
128	6/18/91	tk-1	YES	72	12	3.91	2100	Natural gas		31.75	
129	10/22/97	dc-1	NO				300	Waste heat		5.6	Summary; no production rate provided
129	9/6/96	tk-1	NO				2100	Natural gas		11.3	Summary; no production rate provided
129	10/22/97	tk-1	NO				2100	Natural gas		11.3	Summary; no production rate provided
129	5/29/92	tk-1	NO				2100	Natural gas		11.3	Summary; no production rate provided
130	5/3/94	tk-2	NO	18	11.08	3.76	2000	Natural gas		1.8	Emission survey; single run; do not use
131	2/10/93	tk-1	NO	31	8.3	3.25	2048	natural gas/propane	14.7	7.2	Summary
131	2/10/93	tk-1	NO	31	8.3	3.25	2048	natural gas/propane	14.7	7.2	Summary
131	2/10/93	tk-1	NO	31	8.3	3.25	2048	natural gas/propane	14.7	7.2	Summary
133	11/8/95	tk-3	NO	46	28.27	6.00	2005	sawdust/natural gas	51.2	19.5	Summary; SO2 conc. 2.55 mg/dscf
133	11/8/95	tk-3	NO	46	28.27	6.00	2005	sawdust/natural gas	51.2	19.5	Summary
133	11/8/95	tk-3	NO	46	28.27	6.00	2005	sawdust/natural gas	51.2	19.5	Summary
133	9/10/91	tk-3	NO	46	28.27	6.00	2005	sawdust/natural gas	51.2	19.5	Summary
133	9/10/91	tk-2	NO	45			2060	Natural gas	37	9.3	Summary; one of two stacks; do not use
133	9/10/91	tk-2	NO	45			2060	Natural gas	37	9.3	Summary; one of two stacks; do not use

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
133	9/10/91	tk-3	NO	46	28.27	6.00	2005	sawdust/natural gas	51.2	19.5	Summary
135	4/18/97	tk-2	YES	45	7.07	3.00	2040	Natural gas	20	7.5	Total fluorides; parameters (moisture, gr/dscf, temp, O2%) are adjusted by relative ACFM from two stacks tested
135	4/18/97	tk-2	YES	45	7.07	3.00	2040	Natural gas	20	7.5	Parameters (moisture, gr/dscf, temp, O2%) are adjusted by relative ACFM from two stacks tested; can compare to M13B test on same stacks
137	10/27/92	g-1,s-1	YES								EPA test. Raw material moisture--14%
137	10/27/92	tk-1	YES	71	6.2	2.81	1975	Sawdust	17.15	7.2	Data from test on 2 kilns, divided by 2 where appropriate; test actually conducted on tk-3 and tk-4 when they were sawdust-fired kilns
137	10/27/92	tk-1,tk-2,ds-1	YES								Exhaust from sawdust dryer heated w/kiln exhaust from 2 kilns; do not use; test actually conducted on tk-3 and tk-4 when they were sawdust-fired kilns
137	10/27/92	tk-2	YES	71	6.2	2.81	1975	Sawdust	16.49	7.2	Data from test on 2 kilns, divided by 2 where appropriate; test actually conducted on tk-3 and tk-4 when they were sawdust-fired kilns
137	10/27/92	tk-3	YES	110	12.05	3.92	1975	Sawdust	22.4	8.95	Data from test on 2 kilns, divided by 2 where appropriate; kilns fired with sawdust during test, but are now gas-fired
137	10/27/92	tk-3,tk-4	YES								2 kilns fired with sawdust; kilns are now gas-fired; 2 kilns; do not use
137	6/8/95	tk-4	YES	110	12.05	3.92	1975	Natural gas	19.54	8.95	Also tested brick w/2% lime addition--but bricks failed quality specs.
137	10/27/92	tk-4	YES	110	12.05	3.92	1975	Sawdust	19.54	8.95	Data from test on 2 kilns, divided by 2 where appropriate; kilns fired with sawdust during test, but are now gas-fired

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
137	3/3/98	tk-5	YES	30	9.62	3.50	2030	Natural gas	20.7	9.4	Pink pavers; Low-profile, fast-fire kiln; (HF emissions are comparable to conventional tunnel kilns)
137	3/6/98	tk-5	YES	30	9.62	3.50	2030	Natural gas	20.7	9.4	Red pavers; low-profile, fast-fire kiln; (HF emissions are comparable to conventional tunnel kilns)
138	6/1/86	tk-1	NO	90	4.9	2.50	2140	Natural gas	14.5	7.6	Summary; test method not specified
141	9/16/93	tk-1	NO	40	8.5	3.29	2060	Natural gas	3	4	Summary
143	10/12/93	ca-1	NO					Natural gas			Summary; no production rate provided
143	10/12/93	dc-2	NO					Waste heat		9.6	Summary; no production rate provided
143	9/3/96	tk-1	NO				2100	Natural gas		9.6	Summary; no production rate provided
143	9/3/96	tk-2	NO				2100	Natural gas		9.6	Summary; no production rate provided
143	10/12/93	tk-2	NO				2100	Natural gas		9.6	Summary; no production rate provided
144	12/13/95	dc-1	YES	23	12	3.91	450	Waste heat		6.51	Data indicate that some kiln gases are emitted through the dryer stack
144	12/13/95	tk-1	YES	25	4.83	2.48	2000	Natural gas	16.3	6.51	Dryer test indicates that some kiln gases are emitted through the dryer stack
148	2/5/91	cta-1, mh-2	YES								TK-1 data from this report are not used because kiln car collapsed.
148	2/5/91	g-1,s-1	YES								
148	1/5/95	tk-1	YES	80	12.05	3.92	2100	Natural gas	25	10.53	
148	8/22/95	tk-1	YES	80	12.05	3.92	2100	Natural gas	25	10.53	Production rate from 1/5/95 test
148	1/24/95	tk-1	YES	80				Natural gas		10.53	Production rate from 1/5/95 test
148	1/5/95	tk-1	YES	80	12.05	3.92	2100	Natural gas	25	10.53	
148	8/31/93	tk-1	NO	80	12.05	3.92	2100	Natural gas	25	10.53	Clemson summary data
148	6/10/99	tk-1	YES	80	12.05	3.92	2100	Natural gas	25	10.53	
149	11/12/96	tk-1	YES	43	8.7	3.33	2000	Natural gas	23.51	11.84	
150	6/8/95	dc-2	YES				675	Waste heat		8.33	
150	3/29/95	tk-1	YES	60	8.3	3.25	1960	Natural gas	20.8	8.33	
150	5/27/94	tk-1	YES	60	8.3	3.25	1960	Natural gas	20.8	8.33	
150	6/7/95	tk-2	YES	60	8.3	3.25	1960	Natural gas	20.3	8.33	

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
150	6/7/95	tk-2	YES	60	8.3	3.25	1960	Natural gas	20.3	8.33	SO2 removal efficiency very low
151	6/3/97	dc-1	YES	37	7	2.99	300	Waste heat		13.69	HCl not detected; production rate from ICR
151	6/3/97	dc-1	YES	37	7	2.99	300	Waste heat		13.69	Production rate from ICR
151	6/3/97	misc-1	YES	41	7	150.00		Waste heat		13.69	HF and HCl not detected; Production rate from ICR
151	6/3/97	tk-1	YES	86	14	4.22	2100	Natural gas		13.69	HF not detected at DIFF outlet
151	6/3/97	tk-1	YES	86	14	4.22	2100	Natural gas		13.69	Production rate from ICR
151	6/3/97	wasteheat stack	YES								Not an emission pt--heat source for DC-1.
151	6/3/97	wasteheat stack	YES								Not an emission pt--heat source for DC-1.
152	4/23/98	tk-1	YES	20	4.83	2.48	2200	Natural gas		3	
154	10/31/95	tk-1	YES	55	16	4.51	2100	Natural gas	23.4	7.1	
154	12/5/94	tk-2	YES	80	100	11.28	2100	Natural gas	43.6	13.3	Scrubber no longer operating. Inlet data based on outlet flows and inlet concentrations.
154	10/28/98	tk-1	YES	55	16	4.51	2100	Natural gas	23.4	7.1	
155	7/2/98	tk-1	YES	49.400002	12.6	4.01	2150	Natural gas	20	9.05	Production rate from ICR; plant contacted for actual rate
155	7/10/98	tk-1	YES	49.400002	12.6	4.01	2150	Natural gas	20	9.05	Production rate from ICR; plant contacted for actual rate
155	7/2/98	tk-1	YES	49.400002	12.6	4.01	2150	Natural gas	20	9.05	Production rate from ICR; plant contacted for actual rate; HF and HCl not detected at DIFF outlet
155	7/10/98	tk-1	YES	49.400002	12.6	4.01	2150	Natural gas	20	9.05	Production rate from ICR; plant contacted for actual rate; HF and HCl not detected at DIFF outlet
184	3/30/94	tk-1	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate.
184	3/30/94	tk-2	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate.

TABLE 34. (CONTINUED)

FACID	Test Date	Source ID	Complete report (yes/no)?	Stack height	Stack area	Stack diameter	Operating temperature	Fuel	Heat input	Production rate (tph)	Comments
184	3/30/94	tk-3	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate.
184	4/14/94	tk-1	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate.
184	4/14/94	tk-2	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate.
184	4/14/94	tk-3	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate.
184	11/17/93	tk-3	NO		19.63		2100	Natural gas	11.2	2.69	
184	11/18/93	tk-3	NO		19.63		2100	Natural gas	11.2	2.69	
184	8/2/95	tk-1	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate; do not use; no field data sheets; no production data.
184	8/2/95	tk-2	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate; do not use; no field data sheets; no production data.
184	8/2/95	tk-3	NO		19.63		2100	Natural gas	11.2	2.69	Data on test for 3 kilns; divided by 3 where appropriate; do not use; no field data sheets; no production data.