

**PROCESS CATEGORY CODE (PCC) SYSTEM
DESIGN DOCUMENT**

Prepared for

Emissions Inventory Coding Subcommittee
of the
Emissions Inventory Improvement Program

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1. INTRODUCTION

The Emission Inventory Coding Subcommittee (EICS) of the Emission Inventory Improvement Program's (EIIP) Data Management Committee was formed in the first quarter of 1997 to evaluate a potential major revamping of the Source Classification Codes (SCCs) used in air emissions inventories. This document provides a summary of the work performed on the project to support the EICS, and a discussion of the development of the Process Classification Code (PCC) system.

1.1 SCC System Overview

Source Classification Codes (SCCs) are 8-digit codes used to identify the type of individual processes or unit operations which generate air emissions. A relatively small number of SCCs identify entire facilities as a whole, rather than as component processes. SCCs are also related to the 10-digit Area and Mobile Source (AMS) codes, which are used to identify types of air emission processes for aggregated groups of sources, rather than for individual point-source facilities. SCCs and AMS codes are required key fields for submittal of data to USEPA's Aerometric Information Retrieval System (AIRS). They are also required by many State agency data systems. The term "SCC" is used in the remainder of this document to denote both the 8-digit SCCs and the 10-digit AMS codes.

There are currently 7,031 point source SCCs and 2,656 area source AMS codes. The codes are divided into four hierarchical segments (X-XX-XXX-XX for the point source SCCs, YY-YY-YYY-YYY for the area source AMS codes) which correspond to four levels of source description. The hierarchical descriptions were originally designed to store and retrieve emissions data in one of the many possible categorization schemes that would provide a common language for the planning and analysis of air quality management strategies. The first three levels of the codes have been used in various combinations to summarize reported emissions inventory data, as well as to help users navigate to the more detailed fourth level. The full four level codes and descriptions have been used for more detailed inventory queries and regulatory strategy analyses. The full codes provide a tie to the EPA-provided default emission factors appearing in AIRS and the Factor Information and Retrieval system (FIRE), and they also provide the necessary links to the chemical speciation and temporal allocation tables which allow modeling inventories to be prepared.

SCCs have been adopted for a number of other purposes by a wide variety of users. The point source codes in particular are widely used by permitting programs, probably due to the linkage between SCCs and the default emission factors. AIRS has also implemented a "MACT database" which uses a mapping of Maximum Achievable Control Technologies (MACT) categories to SCCs in order to retrieve facility data for States' case-by-case MACT determinations, as required under Section 112(g) of the Clean Air Act (1990 Amendments). Both the point and area codes are used to tie economic growth rates and anticipated control measures to specific source types in order to produce projected future year inventories.

1.2 Need for a Change

Due to the expansion of emission inventories to cover a wider scope of both pollutants and non-traditional source types, and to the demand to codify an increasing variety of detailed information about emission sources within the SCCs, both the point and area source classification systems have lost much of their original organization and have not always served well in meeting the new demands. As a result, the current SCCs are regarded by many users as cumbersome, ambiguous, inconsistent, redundant, complex, inefficient, and not meeting their particular needs. The intent and organization of the system is not evident to many users, including State inventory preparers, industrial facilities trying to respond to inventory or permitting requests, and end-users of the inventories. Important source information cannot be accessed with a simple retrieval because the information may be codified in various positions of the codes using different code numbers for each occurrence. The hierarchical system cannot accommodate the need to show a single SCC as a subset of more than one grouping. Because different users have different grouping requirements, this has led to either the creation of duplicate codes or the codes not meeting a particular user's needs.

As one example of the duplication problem, there are multiple places in the codes where you can find emissions and factors for a process as simple and uniform as the storage of gasoline in a fixed roof tank. The process is duplicated in the codes mainly because the type of facility (refinery, bulk terminal, service station, rental car operation, etc) is higher in the hierarchy than the process description. The code numbers indicating the common process of gasoline storage are not the same across the facility-types, and the same digit places in the codes are not uniformly used to designate the process. Thus, a user trying to retrieve all gasoline storage emissions from an inventory must search through almost 10,000 codes to identify the somewhat random set of SCCs that contain related information.

In addition to the above problem, the same process can have different codes simply because different throughput units exist for an emission factor or activity measure. Different codes have also been assigned because there were differences in emission factors due to the size range of a piece of equipment or due to the era in which it was constructed. In other cases single codes have been subdivided into multiple codes as more detail became known, with no mechanism to provide a cross-reference other than the hierarchy indicated by the code number. Where the original single code was already in the fourth, or lowest, level of the hierarchy, there is no cross-referencing tie provided. While this increasing detail is necessary and even desirable for emission factor and regulatory-tracking purposes, it creates problems for users trying to summarize or analyze inventory data or otherwise navigate through the system. The navigational problems occur in inputting data into the correct slots to begin with, finding the complete set of potentially applicable emission factors, and in retrieving the data in an efficient manner with some level of confidence that all related data will be found.

The proliferation of codes in order to satisfy each user's particular needs within a single hierarchical system has resulted in there being no commonly accepted understanding of where information can be found in the system. A single system needed to be developed that will link a variety of users to common information.

1.3 Emission Inventory Coding Subcommittee (EICS) Decisions

Many of the coding systems currently used by a number of State and local agencies to depict emission inventory data were discussed as possible replacement options. These included the Emission Inventory Coding (EIC) system developed by the California Air Resources Board, and RAPIDS, which was developed cooperatively by several State agencies and Environment Canada. In that review, a number of features of those systems were adopted for the PCC system design. This initial analysis also reviewed lists of data elements used in emission inventories that were provided by a number of the regulatory agencies involved in the EICS; including California, Canada, Michigan, and Texas. Consideration was also given to how the PCC system would interface with the existing AIRS data model, the EIIP data model, and the National Emission Trends (NET) database; and with the Factor Information Retrieval (FIRE) and SPECIATE databases. As a result of these discussions, decisions on the nature of the PCC system were reached by the EICS.

The following are six major design decisions which were made by the EICS regarding the proposed new system to characterize air emission sources.

1. Develop an entirely new system, rather than trying to bandage the current system. The number of codes that would have to be retired and replaced from the current system in order to implement a more organized approach would likely be a significant fraction of the total existing codes. Even then, the compromises that would have to be accepted in order to work within the current framework would likely lead to a less than satisfying solution for many users. Given the fact that a significant transition effort by the users would be needed whether the existing system was replaced or just revised, the decision was made to create a new system.

2. Integrate the point and area source codes into a single system. Users currently must pull data from two separate data files using two separate groups of codes in order to determine the total emissions from a given source category. Users preparing area source inventories have had to create and maintain large tables mapping point source codes to area source codes in order to be able to adjust (“reconcile”) their total area source estimates for the emissions accounted for in point source estimates. Along with the desire to allow users the flexibility to inventory, report, and summarize emissions data at a variety of detail levels from equipment-specific to facility-wide to county-wide, an integrated system would seem to be an asset.

3. Eliminate non-source characterization information from the new codes. The current system includes information that is not necessary to characterize the source or that is or should be available elsewhere in an inventory database. Examples are the throughput units of measure, which are already a separate data field in the AMS system, but are part of the SCC code in the point source system, and the Standard Industrial Classification (SIC) of the facility, which is already stored in a separate data field in inventory databases. The size range of a piece of equipment (e.g., >50,000 BTU/hr) and the economic sector of the facility (e.g., utility, industrial, commercial, residential) are also built into many of the existing codes; this information was removed from the codes used to store emissions estimates as much as possible, since it can be found in other inventory data fields in more detail. However, these ranges and sectors have also

been historically used to make distinctions between different emission factors for otherwise similar pieces of equipment, particularly among boilers. These emission factor details will be split-off as information separate from the four new descriptive elements (see next item) as its own data element (a fifth element).

4. Split the remaining source description information into four elements. Storing similar information consistently in the same location (one of the four data elements) will allow users to retrieve, summarize, and analyze the data by at least these four major elements: the Site Type; the Equipment or Operation Type; the Material (burned, stored, handled, or otherwise processed); and the Emissions Mode (mechanism by which the emissions are generated). In order to maintain consistency, a good working definition and understanding of the type of information that belongs in each of the four elements had to be developed. Also critical, was an understanding that some characterization information identified as useful in the future may not necessarily belong in any of the four elements. A more detailed explanation and examples of each element are provided elsewhere in this document.

5. Do not use the new code numbers themselves to indicate relationships. Within each of the four elements there will be a need identify that some descriptions are a subdivision of one or possibly more aggregated groups. For example, tangentially-fired boilers are a subset of all boilers. Codes will be provided for, and emission estimates will be acceptable for, both the more detailed (tangentially-fired boilers) as well as the less detailed (all boilers) descriptions. Mechanisms must be provided so that a user requesting information on “boilers” gets information that was entered by others at any level of detail. Unlike the current system which uses the single hierarchy built into the assigned code number as the only criteria for creating subsets, the new system will provide at least one set of parent-child relationship tables for each of the four elements in tables external to the codes themselves. This will allow for both an infinite level of sub-categorization as more detail is desired in the inventory (tangentially-fired boilers could be subdivided into wet-bottom versus dry-bottom this year, then the dry-bottom set may be divided into those that are painted red versus those that are painted blue next year), as well as an infinite number of user-defined summarization or “roll-up” schemes (e.g., EPA’s Inventory Tier System).

6. Do not include higher-level aggregation categories in the codes. In addition to very detailed information, some of which will be eliminated per item 2 above, the hierarchy of the current SCCs also implies higher level, summarization information. For example, a number of manufacturing facility types described at the third (6-digit) level of the SCCs are grouped together as all belonging to the aggregation “Mineral Products Manufacturing”, or “Food and Agriculture Processing” due to the fact that they share the same first three digits. This type of information represents categorization, rather than elemental characterization, information, and the desired categories, or views into the inventory, will vary from user to user. Most aggregation information was eliminated from the new codes. In fact, EPA’s Tier mapping system provides this type of external aggregation function for the current SCC and AMS codes. However, we do want to provide users the flexibility of reporting emission estimates at some level higher than a single piece of equipment. Such flexibility does not exist in the current point source SCCs, but it does exist in the area source AMS codes. In many cases the third (6-digit) level descriptions in the current system correspond to an overall facility-type (e.g., refinery or adipic acid manufacturing

plant) and should be retained in the new site type code to allow inventory reporting for a facility as a whole. Most of the current second (3-digit) level descriptions are for aggregations of diverse facility or industry types that are probably too broad to make a single emissions estimate for, so they should not be supported in the new codes, but could be included in any of the external tier-type summarization replacements.

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2. APPROACH TO DEVELOPING THE PCC SYSTEM

The proposed new codes are being referred to as Process Classification Codes (PCCs), to avoid any confusion with the SCCs which they are replacing. They are comprised of four separate, non-hierarchical fields. As a starting point in the development of the PCCs, relevant information contained in the four existing hierarchical description levels of the current SCCs and needed to uniquely define an emission point or operation will be parsed into one of the four PCC fields. The four new fields are referred to as SITE_TYPE, EQUIPMENT, MATERIAL, and MODE, although the allowable contents of each field is defined to be wider than those terms might suggest. Specification of the first two or three of these fields is sufficient in many instances to identify an emitting process or inventory category. Some types of information in the SCCs which were NOT parsed into any of the four PCC elements are throughput units, equipment size range, and SIC identification. This additional information should be recorded in its own data fields (unrelated to the PCC fields), as shown in the EIIP Data Model. Although four separate data elements should be sufficient for inventory reporting purposes, we also have to consider the current use of the SCCs for distinguishing different emission factors for very similar equipment types. These details have been added as a fifth field to store the emission factor distinguishing information (e.g., boiler size information). An additional consideration are temporal-related information that is inherent within some of the current AMS codes; the current approach is to have this information stored elsewhere within the EIIP data model and not include them in the PCC system.

2.1 Requirements of the PCC System

Before work on developing the PCC system began in earnest, some of the most basic needs to be met were defined. These needs (in approximate order of priority) include:

- C The ability to map from the SCCs to the PCCs;
- C Avoidance of the built-in limitations of the SCCs;
- C Flexibility for the system to grow; and
- C Be useful to a multitude of divergent user communities.

The single most critical need was the ability to map from SCCs (and AMS codes) to PCCs, so that is the first approach taken to developing the list of PCC data elements.

2.2 The Four PCC Data Elements

The four data elements and their working definitions are provided below. These were the definitions used at the start of the process of developing the draft list of each of the four data elements. The definitions may vary somewhat in application to specific groupings of SCCs; these variances have been documented as much as possible in this *PCC System Design Document*.

1. SITE. Examples of the types of information to be stored in this field are: Petroleum refinery, Electric utility, Highway, Unpaved road, Cattle feedlot, Forest, Waterway, Dry cleaning facility, and Cement Manufacturing. For many industrial sources, this field will closely resemble both the plant's SIC description and the current 6-digit SCC description. This fact may be usable

in aiding the transition to the new codes by some SCC users, such as the MACT database. However, this field will also identify a site type for many non-economic type sources that do not have an SIC code (or its replacement NAICS code), such as roads and forests. Thus, a set of codes will need to be created which will be both more comprehensive than the US Commerce Department's SIC codes and tailored to the needs of the air emission inventory community, rather than to economic forecasters. The SIC or NAICS code will likely continue to be stored in its own data element in most emission inventories, leading to questions about why we need both for the many industrial sources in the inventory. But in addition to the added function of being able to inventory and retrieve data for non-economic site types, this field will allow for various sub-SIC site types within a large integrated operation, such as a military base, to be properly identified. Thus, a search for site type = "dry cleaner" would retrieve both the commercial operations that have the SIC for dry cleaners as well as the dry cleaning operations within a facility identified only as a military base by its SIC code. In this way the field may be thought of as a process-level SIC.

Some industrial products can be manufactured by more than one process, such as cement manufacturing by either a wet or a dry process. We propose that the Site code would be the proper place to put this manufacturing route information, as indicated sub-types of cement manufacturing overall. Sub-types will be indicated by the use of parent-child tables for each of the four data elements.

2. EQUIPMENT. This field may identify either an individual piece of equipment or some typical aggregation of equipment or process unit, or an activity or process description. Examples are: boiler; storage tank; floating roof storage tank with secondary seals; rotary kiln; alkylation unit; and fermentation building. For some of the non-industrial site types listed in item 1 above, the definition of "equipment" will be extended to include: dairy cow; light-duty vehicle; pine tree; and marine vessel-crew boat-auxiliary engine. Equipment types are defined in the current SCCs mostly by the last two digits, i.e., at the fourth or lowest level of the hierarchy. Many of the current area source AMS codes and some of the current SCCs do not specify any piece of equipment or process unit. These situations will be represented in the new system by having an equipment_type code for "facility total." This code would be used in conjunction with a given Site code to provide an overall emission estimate for an entire facility.

3. MATERIAL. This field identifies the material burned, stored, handled, or otherwise processed by the specified equipment type. Examples would be: toluene, gasoline, petroleum distillates, anthracite coal, vermiculite, and coarse aggregate. Decisions had to be made on whether the material is used as a fuel or a solvent; how to handle situations where there appears to be two materials, such as in painting operations (the coating type and the substrate type); or operations utilizing a fuel as well as process materials (flares, incinerators, direct-fired process heaters).

4. MODE. This field is envisioned to identify the operating mode of the equipment for which emissions are being generated. For example, breathing versus working losses for storage tanks, or the uncaptured fugitive leaks from the equipment versus the ducted outlet from the same piece of equipment. It may also be helpful in identifying whether a given emission factor or emission estimate is for just the fuel combustion emissions or for the total fuel plus process

material carryout emissions from a direct-fired source. It could be used to extend the current coverage of the codes from typical routine operations (tank breathing and working losses) into non-daily events such as tank clean-outs, spills, or fires. The current codes and future needs should be investigated more closely to further define this data element.

2.3 Mapping of SCCs to PCCs

The EICS agreed that a priority to making PCCs readily usable is to have a mapping of SCCs to PCCs to assist in the migration from the older system to the new system. The first step in this process was to group like SCCs and AMS codes together using SCC Groupings. This strategy allowed the SCCs from related processes, that may exist in disparate sections of the SCC code table, to be treated similarly. Table 1 shows the groupings of SCCs used for this purpose along the left-most column. Additional higher-level groupings are shown in bold as rows that span the table (e.g., Combustion Sources). SCCs beginning with the letter "A" are from the AMS code table; all others are from the SCC table.

Table 1. SCC Groupings used in mapping SCCs to PCCs

Grouping Name	SCCs Included	Comments
Combustion Sources		
Boilers	1-01; 1-02; 1-03; 1-05 A21-XX-001; A21-XX-002; A21-XX-003; A21-XX-004-001; A21-XX-005; A21-XX-006-001; A21-XX-007; A21-XX-008; A21-XX-009; A21-XX-010	XX = 01; 02; or 03
Stationary IC Engines	2-01; 2-02; 2-03; 2-04; A21-XX-004-002; A21-XX-006-002;	XX = 01; 02; or 03
Manufacturing Combustion	3-90-001 to 3-90-013; 3-99-005 to 3-99-017; A23-90	Process heaters, other process-related combustors
Miscellaneous Combustion	A21 (all codes not included in Boilers and Stationary IC Engines); A98	
Manufacturing Sources		
Chemical Mfg.	3-01; 6-31; 6-41; 6-44; 6-45; 6-46; 6-48; 6-49; 6-84; 6-85; A23-01	
Food and Agricultural	3-02; 6-25; A23-02	
Metal Production	3-03; 3-04; A23-03; A23-04	Primary & secondary
Mineral Products	3-05; 3-10; 6-51; A23-05; A23-10; A23-25	Includes Oil & Gas

Grouping Name	SCCs Included	Comments
Petroleum Industry	3-06; A23-06	
Pulp, Paper & Wood	3-07; A23-07	
Textiles	3-30	
Miscellaneous Manufacturing	3-08; 3-09; 3-12; 3-13; 3-14; 3-15; 3-20; 3-60; 3-99; 6-81; 6-82; A23-08; A23-09; A23-12; A23-99; A24-30	Includes Rubber, Plastics, Metal Parts, Electrical Equip., Machinery, etc.
Solvent Evaporation Sources		
Storage/Distribution of Petroleum Products/Organic Chemicals	3-90-9XX; 4-03; 4-04; 4-06; 4-07; 4-08; 4-25; A25-01; A25-05; A25-10; A25-15	
Dry Cleaning	4-01-001; 4-10; A24-20	
Surface Coating & Printing/Publishing	4-02; 4-05; A24-01; A24-25; A24-40-020	
Miscellaneous Organic Solvent Evaporation	4-01-002 through 4-01-888; 4-90; A24-15; A24-40	Solvent Degreasing and Generic solvent evaporation, NEC
Other Sources		
Waste Disposal	5-XX; A26	
Construction	3-11; A23-11	
Mobile Sources	2-60; 2-65; 2-70; 2-73; 2-75; 2-76; 2-80; A22	
Miscellaneous Area Sources	A24-60; A24-61; A24-65; A24-95; A28; A98	
Natural Sources	A27	
Storage/Distribution of Inorganic Chemicals	A25-20; A25-25; A25-30; A25-35	

Examples of this mapping for each of the SCC groups listed in Table 1 is provided as Appendix A. Appendix A also includes the SCCs that are referred to in the following discussion of the rules used in performing this parsing task.

2.3.1 General Rules in Assigning PCC Data Elements

A set of rules used in the approach to mapping SCCs to PCCs were developed in order to maintain consistency between the various Project Staff working on the project, since each was working on a different SCC Grouping. A list of some of the more general rules is offered below.

- S Not all four data elements need to have an entry. Blanks are allowed.
- S When an SCC description indicates “Overall” or “General,” “Process Unit” may be used as the Equipment but may not be appropriate to assume that it represents both “Vented” and “Fugitive” emission Modes.
- S Material and Mode fields need to be relevant to characterizing the emissions. An example is SCC 3-01-021-20 (Sodium Bicarbonate Mfg.; Brine Evaporation), where the temptation is to put "Brine" in the Material column and "Evaporation" in the Mode column; the more appropriate parsing is to put "Brine Evaporation" in the Equipment column.
- S When there is a combination of two or more distinct items within an element, indicate it by using a plus (+) sign. For example, when the Mode is for both “Process” and “Combustion” types of emissions, the correct indication will be “Process + Combustion.” A separate code will be devised for these combined elements; the tables of descriptions are presented here for purposes of providing examples only.

2.3.2 Rules for Assigning the Equipment/Process Data Element

- S The Equipment field may contain information that could be described as a “Process Description” or “Operation Activity,” as well as a piece of hardware.
- S When a device is indicated as operating as an integral part of a process unit or another piece of equipment, indicate both items as a single Equipment (e.g., SCC 3-01-023-01, "Process Unit with Absorber").
- S Do not include the efficiency as a part of the Equipment description (e.g., SCC 3-01-023-01 through -018).
- S Equipment fired by some fuel (e.g., Rotary Ore Calciner; Gas Fired) should use a generic description (e.g., "Rotary Ore Calciner; Fuel Fired") as the Equipment entry then specify the fuel used in the Material column (See SCC 3-01-021-04 and -05).

2.3.3 Rules for Assigning the Site Type Data Element

- S Site Type may define a type of facility, a specific location within a facility, or a type of process with many different equipment and/or operations associated with it.
- S Site Type may contain a subgrouping (child) of a more generic Site Type (e.g., “Automobile Manufacturing” is a subset of “Automobile & Light-Duty Truck Manufacturing”).

2.3.3 Rules for Assigning the Material Data Element

- S Material will defines a product, feedstock or intermediate, but only if designation of that material is necessary to identify the emissions from the process. It will also be assumed that the entry in the Material column is what is being acted upon in the Equipment/Process Data Element (See SCC 3-01-019-xx).
- S Material can contain the term "End Product" by itself when the end product is noted in the Site Type (e.g., Adipic Acid Manufacturing).
- S When the Site is generic (e.g., Plastics Production) and there is a multitude of different types of end products, you may enter the term "End Product; [specific product name]" in the Material column. This is necessary to discriminate between intermediates and end products. Examples of this can be found in SCC 3-01-018-xx.
- S Material does not need to indicate "End Product" when the end product is self-evident, such as "Red Wine" and "White Wine" under SCC 3-02-011-xx.

2.3.4 Rules for Assigning the Emissions Mode Data Element

- S Mode is filled only when a specific emissions mode is clearly indicated. For example, Mode is used to differentiate between "Breathing" versus "Working" losses from fixed roof storage tanks.

2.4 Parent-Child Relationships

PCCs do not have any hierarchical relationships built into the codes themselves, but rather depend on a set of relationships defined outside the listings of the individual data elements (the data element tables). These relationships are referred to as Parent-Child relationships, and are specified in a series of Parent-Child Tables (one for each of the four data elements). These relationships are designed to allow a User of the PCC system to navigate their way through the listings of each of the four data elements and choose the right item to adequately describe an emission source/industrial process/etc.

An advantage in using Parent-Child relationships is the flexibility to allow more than one set of relationships to be applied, based on the needs of the User. The primary use of the PCCs is in developing emission inventories, therefore, the Parent-Child relationship table that supports that application will be the only one discussed in this document. The system, however, will allow the use of User-specific Parent-Child tables that organizes the system for another purpose.

Table 1 provides a basic framework for a Parent-Child relationship which are expanded upon in this discussion to provide an example of how these relationships work. For the remainder of this discussion on Parent-Child relationships, we will use the Boilers SCC group as an example. Refer to Appendix A for a review of some representative mapping of SCCs into the PCC system, including a number examples for boilers. Figure 1 shows a representation of the Equipment associated with Boilers, and Figure 2 shows a similar representation for Materials. There are

three Site Types defined in the SCC tables (Electric Utility, Industrial, Commercial/Institutional, and Total; All Site Types) and only one Mode (Combustion; External).

As shown in Figure 1, the associations generally move from more general descriptions (with the generic term “boilers” at the top) to ever more specific subsets of children. Not all types of equipment may be valid for all Material (Fuel) types; natural gas would not be expected to be burned in a hand fired coal furnace; however, any of the fuels would be valid for a roll-up of all boiler types. Some of the Children processes shown in Figure 1 are not specifically identified in the SCC codes but are mentioned in the AP-42 Chapters on boilers (“Horizontal Feed” and “Gravity Feed” Underfeed Stokers); they are presented here and are included in the Parent-Child tables to demonstrate the capability to add greater levels of detail to the list of those equipment types that are “valid” choices. Some of the levels of detail implied in the SCC descriptions and not shown in Figure 1 include the type of fuel used (e.g., “Pulverized Coal”), and whether the boiler is “Wet Bottom” or “Dry Bottom.” Some levels of aggregation were left out of the SCCs but are shown here (e.g., “Tangential Fired” and “Wall Fired” are shown as Children of “Cyclone Furnace” boilers). Other aggregations can also be applied but are not shown in Figure 1 for the sake of simplicity. One such aggregation is whether the boiler is a “Water Tube,” “Fire Tube,” or “Tubeless” design; this information is discussed in AP-42 but not applied in the SCC descriptions

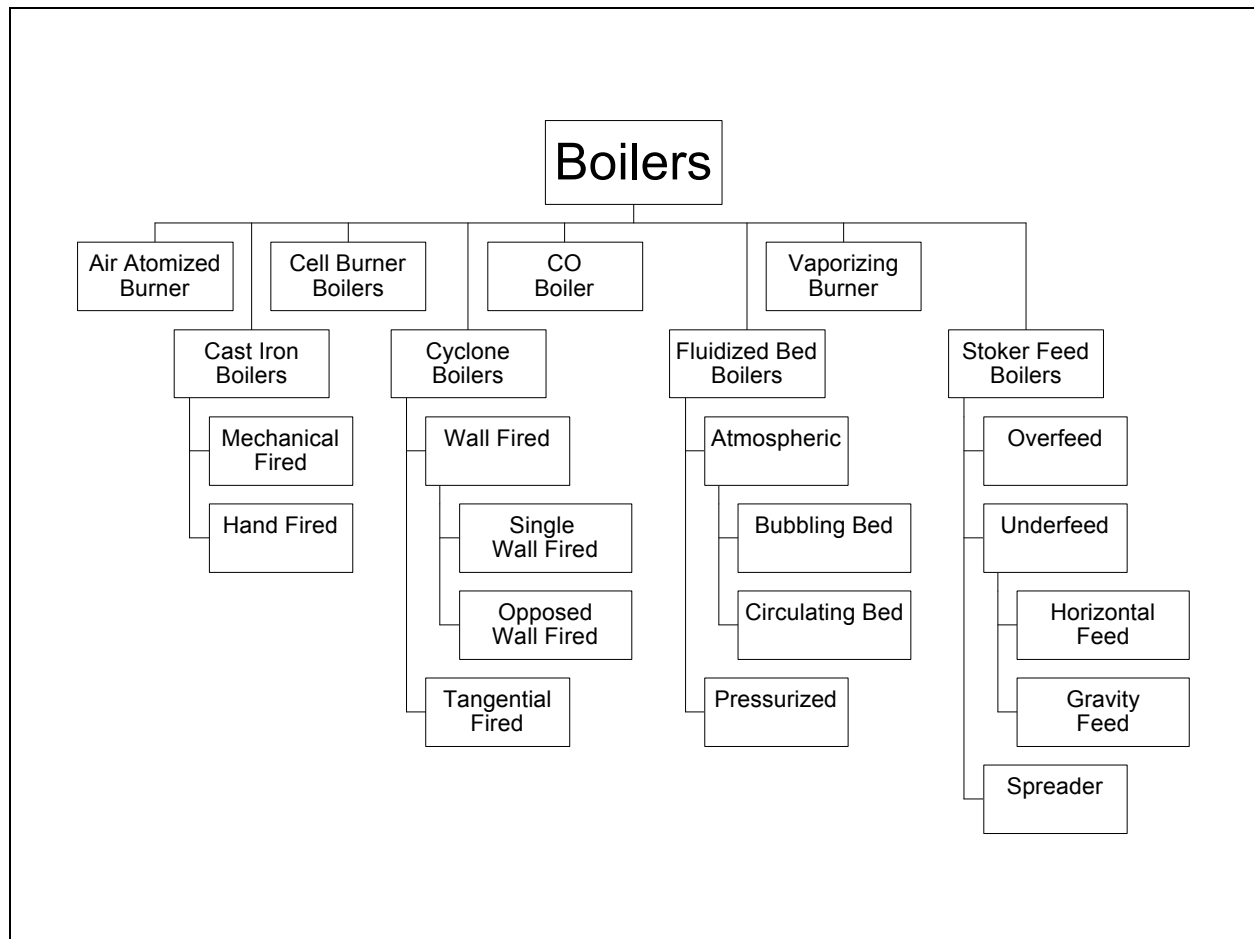


Figure 1. Parent-Child Relationship for Boiler Equipment.

and may be useful for a User trying to navigate the PCC system.

As also seen with the boiler equipment example shown in Figure 1, the Materials presented as “fuels” in Figure 2 move from more generic parents to more specific children. One aspect of the Parent-Child relationships that is also shown in Figure 2 is the possibility of a child having more than one parent; as shown for “Waste Wood” which has both “Solid Wastes” and “Wood” shown as parents. This demonstrates the ability for one entry in the data element tables to be accessed by using a number of different strategies. The example of boilers being presented in this discussion may not show the full power of this feature of the PCCs; a more suitable example would be demonstrated in showing the relationships of gasoline storage tanks to a number of different site types.

Table 2 presents a draft version of what a Parent-Child relationship table for some of the Equipment/Process Types for boilers. Table 3 provides a similar presentation of some of the representative Materials for boilers. Note that the tables use a minimalist approach to data storage with only three defined columns for Equipment/Process types and four columns for Materials; the tables for Site Type and Mode will also be only three columns wide. The fourth column in the Material table is to allow cross-referencing with CAS Registry Numbers when one

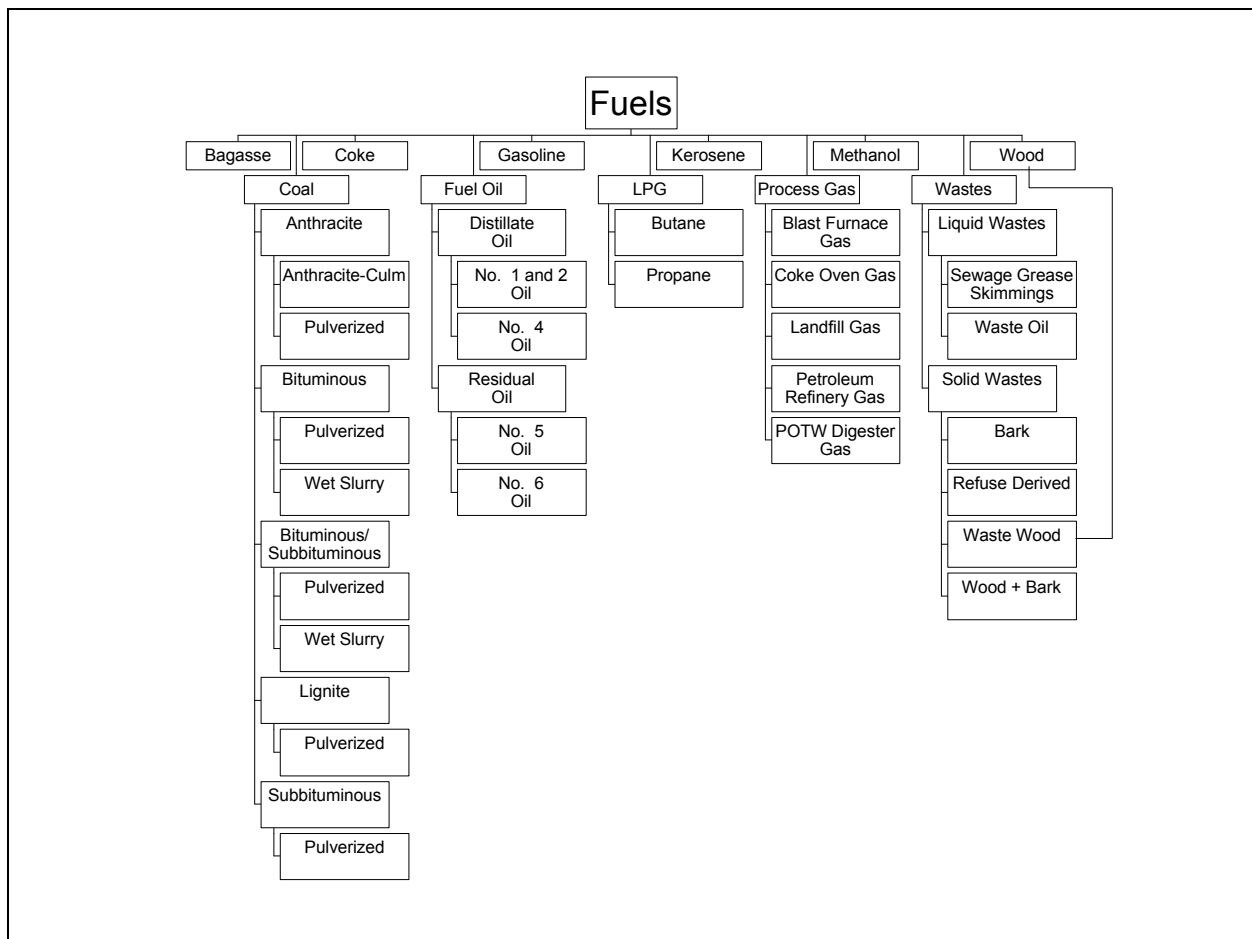


Figure 2. Parent-Child Relationship for Boiler Materials (Fuels).

is available for a material. These data tables will be accessed through an electronic interface (computer program) that will query the tables to find a suitable match in the PCC system.

Table 2. Example of PCC System Parent-Child Relationship Table for Equipment/Process Types

Code	Description	Parent
0001	Boiler	
0002	Air Atomized Burner Boiler	0001
0003	Cast Iron Boiler	0001
0004	Cell Burner Boiler	0001
0005	Cyclone Boiler	0001
0006	CO Boiler	0001
0007	Fluidized Bed Boiler	0001
0008	Stoker Feed Boiler	0001
0009	Vaporizing Burner Boiler	0001
0010	Mechanical Fired Boiler	0003
0011	Hand Fired Boiler	0003
0012	Wall Fired Boiler	0005
0013	Tangential Fired Boiler	0005
0014	Atmospheric Fluidized Bed Boiler	0007
0015	Pressurized Fluidized Bed Boiler	0007
0016	Overfeed Stoker Boiler	0008
0017	Underfeed Stoker Boiler	0008
0018	Spreader Stoker Boiler	0008
0019	Single Wall Fired Boiler	0012
0020	Opposed Wall Fired Boiler	0012
0021	Bubbling Bed Boiler	0014
0022	Circulating Bed Boiler	0014

Table 3. Example of PCC System Parent-Child Relationship Table for Material Types

Code	Description	Parent	CAS Registry Number
00001	Fuel		
00002	Coal	00001	
00003	Bagasse	00001	
00004	Fuel Oil	00001	
00005	Liquified Petroleum Gas (LPG)	00001	68476-85-7
00006	Process Gas	00001	
00007	Wastes	00001	
00008	Wood	00001	
00009	Anthracite	00002	68525-80-4
00010	Bituminous	00002	
00011	Bituminous/Subbituminous	00002	
00012	Lignite	00002	
00013	Subbituminous	00002	
00014	Distillate Oil	00004	
00015	Residual Oil	00004	
00016	No. 1 Oil	00014	
00017	No. 2 Oil	00014	
00018	No. 4 Oil	00014	
00019	No. 5 Oil	00015	
00020	No. 6 Oil	00015	
00021	Butane	00005	106-97-8
00022	Propane	00005	74-98-6
00023	Wood Waste	00007	
00023	Wood Waste	00008	

3. USER'S GUIDE

[This section is intended to give guidance to someone trying to use the PCC system in choosing the PCC data elements needed to adequately describe an emission source. Included in this section is a brief discussion on translating SCCs to PCCs, and some of the special considerations that are involved in performing a migration from SCCs to PCCs. The EICS has also identified the need for software tools to assist User's in selecting PCCs, and this section will also include the basics in how to use those tools, once they are created. Also included in this section will be the procedures for User's to give feedback to the PCC Maintenance Staff on suggested additions and/or changes to the PCCs.]

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4. MAINTAINING THE PCC SYSTEM

[One of the downfalls of the SCC system was a lack in documentation of the choices that were made in assigning new SCCs, or any description of the overall structure of the codes. It is the intention of the EICS that the PCC system be well documented, and that the details considered in the development of the codes be documented as well as possible. The purpose of this section is to provide the person(s) assigned to maintaining the PCC system the basic blueprint that will allow them to consistently maintain the system using the original design. This maintenance includes assigning new codes, organizing/reorganizing the Parent-Child tables, and revisiting the assumptions that went into the original design.]

APPENDIX A
SCC TO PCC MAPPING FOR SELECTED PROCESSES

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Boilers					
1-02-001-01	External Combustion Boilers; Industrial; Anthracite Coal; Pulverized Coal	INDUSTRIAL	BOILER	COAL; ANTHRACITE; PULVERIZED	COMBUSTION; EXTERNAL
1-02-001-04	External Combustion Boilers; Industrial; Anthracite Coal; Traveling Grate (Overfeed) Stoker	INDUSTRIAL	BOILER; OVERFEED STOKER	COAL; ANTHRACITE	COMBUSTION; EXTERNAL
1-02-001-07	External Combustion Boilers; Industrial; Anthracite Coal; Hand-fired	INDUSTRIAL	BOILER; HAND-FIRED	COAL; ANTHRACITE	COMBUSTION; EXTERNAL
1-02-001-17	External Combustion Boilers; Industrial; Anthracite Coal; Fluidized Bed Boiler Burning Anthracite-Culm Fuel	INDUSTRIAL	BOILER; ATMOSPHERIC FLUIDIZED BED	COAL; ANTHRACITE-CULM	COMBUSTION; EXTERNAL
1-02-002-01	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Pulverized Coal: Wet Bottom	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; BITUMINOUS/SUBBITUMINOUS; PULVERIZED	COMBUSTION; EXTERNAL
1-02-002-02	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Pulverized Coal: Dry Bottom	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; BITUMINOUS/SUBBITUMINOUS; PULVERIZED	COMBUSTION; EXTERNAL
1-02-002-03	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Cyclone Furnace	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; BITUMINOUS/SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-04	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Spreader Stoker	INDUSTRIAL	BOILER; SPREADER STOKER	COAL; BITUMINOUS/SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-05	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Overfeed Stoker	INDUSTRIAL	BOILER; OVERFEED STOKER	COAL; BITUMINOUS/SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-06	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Underfeed Stoker	INDUSTRIAL	BOILER; UNDERFEED STOKER	COAL; BITUMINOUS/SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-10	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Overfeed Stoker **	INDUSTRIAL	BOILER; OVERFEED STOKER	COAL; BITUMINOUS/SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-12	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Pulverized Coal: Dry Bottom (Tangential)	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; BITUMINOUS/SUBBITUMINOUS; PULVERIZED	COMBUSTION; EXTERNAL
1-02-002-13	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Wet Slurry	INDUSTRIAL	BOILER	COAL; BITUMINOUS/SUBBITUMINOUS; WET SLURRY	COMBUSTION; EXTERNAL

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Boilers					
1-02-002-17	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous)	INDUSTRIAL	BOILER; ATMOSPHERIC FLUIDIZED BED; BUBBLING BED	COAL; BITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-18	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum.)	INDUSTRIAL	BOILER; ATMOSPHERIC FLUIDIZED BED; CIRCULATING BED	COAL; BITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-19	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Cogeneration	INDUSTRIAL	BOILER	COAL; BITUMINOUS/SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-21	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Pulverized Coal: Wet Bottom (Subbituminous Coal)	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; SUBBITUMINOUS; PULVERIZED	COMBUSTION; EXTERNAL
1-02-002-22	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Pulverized Coal: Dry Bottom (Subbituminous Coal)	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; SUBBITUMINOUS; PULVERIZED	COMBUSTION; EXTERNAL
1-02-002-23	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Cyclone Furnace (Subbituminous Coal)	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-24	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Spreader Stoker (Subbituminous Coal)	INDUSTRIAL	BOILER; SPREADER STOKER	COAL; SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-25	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	INDUSTRIAL	BOILER; OVERFEED STOKER	COAL; SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-002-26	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; SUBBITUMINOUS; PULVERIZED	COMBUSTION; EXTERNAL
1-02-002-29	External Combustion Boilers; Industrial; Bituminous/Subbituminous Coal; Cogeneration (Subbituminous Coal)	INDUSTRIAL	BOILER	COAL; SUBBITUMINOUS	COMBUSTION; EXTERNAL
1-02-003-01	External Combustion Boilers; Industrial; Lignite; Pulverized Coal: Dry Bottom, Wall Fired	INDUSTRIAL	BOILER	COAL; LIGNITE; PULVERIZED	COMBUSTION; EXTERNAL
1-02-003-02	External Combustion Boilers; Industrial; Lignite; Pulverized Coal: Dry Bottom, Tangential Fired	INDUSTRIAL	BOILER; CYCLONE FURNACE; TANGENTIAL FIRED	COAL; LIGNITE; PULVERIZED	COMBUSTION; EXTERNAL
1-02-003-03	External Combustion Boilers; Industrial; Lignite; Cyclone Furnace	INDUSTRIAL	BOILER; CYCLONE FURNACE	COAL; LIGNITE	COMBUSTION; EXTERNAL

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Boilers					
1-02-003-04	External Combustion Boilers; Industrial; Lignite; Traveling Grate (Overfeed) Stoker	INDUSTRIAL	BOILER; OVERFEED STOKER	COAL; LIGNITE	COMBUSTION; EXTERNAL
1-02-003-06	External Combustion Boilers; Industrial; Lignite; Spreader Stoker	INDUSTRIAL	BOILER; SPREADER STOKER	COAL; LIGNITE	COMBUSTION; EXTERNAL
1-02-003-07	External Combustion Boilers; Industrial; Lignite; Cogeneration	INDUSTRIAL	BOILER	COAL; LIGNITE	COMBUSTION; EXTERNAL
1-02-004-01	External Combustion Boilers; Industrial; Residual Oil; Grade 6 Oil	INDUSTRIAL	BOILER	FUEL OIL; RESIDUAL	COMBUSTION; EXTERNAL
1-02-004-02	External Combustion Boilers; Industrial; Residual Oil; 10-100 Million Btu/hr **	INDUSTRIAL	BOILER	FUEL OIL; RESIDUAL	COMBUSTION; EXTERNAL
1-02-004-03	External Combustion Boilers; Industrial; Residual Oil; < 10 Million Btu/hr **	INDUSTRIAL	BOILER	FUEL OIL; RESIDUAL	COMBUSTION; EXTERNAL
1-02-004-04	External Combustion Boilers; Industrial; Residual Oil; Grade 5 Oil	INDUSTRIAL	BOILER	FUEL OIL; RESIDUAL	COMBUSTION; EXTERNAL
1-02-004-05	External Combustion Boilers; Industrial; Residual Oil; Cogeneration	INDUSTRIAL	BOILER	FUEL OIL; RESIDUAL	COMBUSTION; EXTERNAL
1-02-005-01	External Combustion Boilers; Industrial; Distillate Oil; Grades 1 and 2 Oil	INDUSTRIAL	BOILER	FUEL OIL; DISTILLATE	COMBUSTION; EXTERNAL
1-02-005-02	External Combustion Boilers; Industrial; Distillate Oil; 10-100 Million Btu/hr **	INDUSTRIAL	BOILER	FUEL OIL; DISTILLATE	COMBUSTION; EXTERNAL
1-02-005-03	External Combustion Boilers; Industrial; Distillate Oil; < 10 Million Btu/hr **	INDUSTRIAL	BOILER	FUEL OIL; DISTILLATE	COMBUSTION; EXTERNAL
1-02-005-04	External Combustion Boilers; Industrial; Distillate Oil; Grade 4 Oil	INDUSTRIAL	BOILER	FUEL OIL; DISTILLATE; NO. 4	COMBUSTION; EXTERNAL
1-02-005-05	External Combustion Boilers; Industrial; Distillate Oil; Cogeneration	INDUSTRIAL	BOILER	FUEL OIL; DISTILLATE	COMBUSTION; EXTERNAL

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Boilers					
1-02-006-01	External Combustion Boilers; Industrial; Natural Gas; > 100 Million Btu/hr	INDUSTRIAL	BOILER	NATURAL GAS	COMBUSTION; EXTERNAL
1-02-006-02	External Combustion Boilers; Industrial; Natural Gas; 10-100 Million Btu/hr	INDUSTRIAL	BOILER	NATURAL GAS	COMBUSTION; EXTERNAL
1-02-006-03	External Combustion Boilers; Industrial; Natural Gas; < 10 Million Btu/hr	INDUSTRIAL	BOILER	NATURAL GAS	COMBUSTION; EXTERNAL
1-02-006-04	External Combustion Boilers; Industrial; Natural Gas; Cogeneration	INDUSTRIAL	BOILER	NATURAL GAS	COMBUSTION; EXTERNAL
1-02-007-01	External Combustion Boilers; Industrial; Process Gas; Petroleum Refinery Gas	INDUSTRIAL	BOILER	PROCESS GAS; PETROEUM REFINERY GAS	COMBUSTION; EXTERNAL
1-02-007-04	External Combustion Boilers; Industrial; Process Gas; Blast Furnace Gas	INDUSTRIAL	BOILER	PROCESS GAS; BLAST FURNACE GAS	COMBUSTION; EXTERNAL
1-02-007-07	External Combustion Boilers; Industrial; Process Gas; Coke Oven Gas	INDUSTRIAL	BOILER	PROCESS GAS; COKE OVEN GAS	COMBUSTION; EXTERNAL
1-02-007-10	External Combustion Boilers; Industrial; Process Gas; Cogeneration	INDUSTRIAL	BOILER	PROCESS GAS	COMBUSTION; EXTERNAL
1-02-007-99	External Combustion Boilers; Industrial; Process Gas; Other: Specify in Comments	INDUSTRIAL	BOILER	PROCESS GAS	COMBUSTION; EXTERNAL
1-02-008-02	External Combustion Boilers; Industrial; Coke; All Boiler Sizes	INDUSTRIAL	BOILER	COKE	COMBUSTION; EXTERNAL
1-02-008-04	External Combustion Boilers; Industrial; Coke; Cogeneration	INDUSTRIAL	BOILER	COKE	COMBUSTION; EXTERNAL
1-02-009-01	External Combustion Boilers; Industrial; Wood/Bark Waste; Bark-fired Boiler (> 50,000 Lb Steam)	INDUSTRIAL	BOILER	WASTE; SOLID; BARK	COMBUSTION; EXTERNAL
1-02-009-02	External Combustion Boilers; Industrial; Wood/Bark Waste; Wood/Bark-fired Boiler (> 50,000 Lb Steam)	INDUSTRIAL	BOILER	WASTE; SOLID; WOOD/BARK	COMBUSTION; EXTERNAL

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Boilers					
1-02-009-03	External Combustion Boilers; Industrial; Wood/Bark Waste; Wood-fired Boiler (> 50,000 Lb Steam)	INDUSTRIAL	BOILER	WASTE; SOLID; WOOD	COMBUSTION; EXTERNAL
1-02-009-04	External Combustion Boilers; Industrial; Wood/Bark Waste; Bark-fired Boiler (< 50,000 Lb Steam)	INDUSTRIAL	BOILER	WASTE; SOLID; BARK	COMBUSTION; EXTERNAL
1-02-009-05	External Combustion Boilers; Industrial; Wood/Bark Waste; Wood/Bark-fired Boiler (< 50,000 Lb Steam)	INDUSTRIAL	BOILER	WASTE; SOLID; WOOD/BARK	COMBUSTION; EXTERNAL
1-02-009-06	External Combustion Boilers; Industrial; Wood/Bark Waste; Wood-fired Boiler (< 50,000 Lb Steam)	INDUSTRIAL	BOILER	WASTE; SOLID; WOOD	COMBUSTION; EXTERNAL
1-02-009-07	External Combustion Boilers; Industrial; Wood/Bark Waste; Wood Cogeneration	INDUSTRIAL	BOILER	WASTE; SOLID; WOOD	COMBUSTION; EXTERNAL
1-02-010-01	External Combustion Boilers; Industrial; Liquified Petroleum Gas (LPG); Butane	INDUSTRIAL	BOILER	LIQUIFIED PETROLEUM GAS (LPG); BUTANE	COMBUSTION; EXTERNAL
1-02-010-02	External Combustion Boilers; Industrial; Liquified Petroleum Gas (LPG); Propane	INDUSTRIAL	BOILER	LIQUIFIED PETROLEUM GAS (LPG); PROPANE	COMBUSTION; EXTERNAL
1-02-010-03	External Combustion Boilers; Industrial; Liquified Petroleum Gas (LPG); Butane/Propane Mixture: Specify Percent Butane in Comments	INDUSTRIAL	BOILER	LIQUIFIED PETROLEUM GAS (LPG)	COMBUSTION; EXTERNAL
1-02-011-01	External Combustion Boilers; Industrial; Bagasse; All Boiler Sizes	INDUSTRIAL	BOILER	BAGASSE	COMBUSTION; EXTERNAL
1-02-012-01	External Combustion Boilers; Industrial; Solid Waste; Specify Waste Material in Comments	INDUSTRIAL	BOILER	WASTE; SOLID	COMBUSTION; EXTERNAL
1-02-012-02	External Combustion Boilers; Industrial; Solid Waste; Refuse Derived Fuel	INDUSTRIAL	BOILER	WASTE; SOLID; REFUSE DERIVED	COMBUSTION; EXTERNAL
1-02-013-01	External Combustion Boilers; Industrial; Liquid Waste; Specify Waste Material in Comments	INDUSTRIAL	BOILER	WASTE; LIQUID	COMBUSTION; EXTERNAL
1-02-013-02	External Combustion Boilers; Industrial; Liquid Waste; Waste Oil	INDUSTRIAL	BOILER	WASTE; LIQUID; WASTE OIL	COMBUSTION; EXTERNAL

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Boilers					
1-02-014-01	External Combustion Boilers; Industrial; CO Boiler; Natural Gas	INDUSTRIAL	BOILER; CO	NATURAL GAS	COMBUSTION; EXTERNAL
1-02-014-02	External Combustion Boilers; Industrial; CO Boiler; Process Gas	INDUSTRIAL	BOILER; CO	PROCESS GAS	COMBUSTION; EXTERNAL
1-02-014-03	External Combustion Boilers; Industrial; CO Boiler; Distillate Oil	INDUSTRIAL	BOILER; CO	FUEL OIL; DISTILLATE	COMBUSTION; EXTERNAL
1-02-014-04	External Combustion Boilers; Industrial; CO Boiler; Residual Oil	INDUSTRIAL	BOILER; CO	FUEL OIL; RESIDUAL	COMBUSTION; EXTERNAL
1-02-016-01	External Combustion Boilers; Industrial; Methanol; Industrial Boiler	INDUSTRIAL	BOILER	METHANOL	COMBUSTION; EXTERNAL
1-02-017-01	External Combustion Boilers; Industrial; Gasoline; Industrial Boiler	INDUSTRIAL	BOILER	GASOLINE	COMBUSTION; EXTERNAL
A21-02-001-000	Stationary Source Fuel Combustion; Industrial; Anthracite Coal; Total: All Boiler Types	INDUSTRIAL	BOILER	COAL; ANTHRACITE	COMBUSTION; EXTERNAL
A21-02-002-000	Stationary Source Fuel Combustion; Industrial; Bituminous/Subbituminous Coal; Total: All Boiler Types	INDUSTRIAL	BOILER	COAL; BITUMINOUS/SUBBITU MINOUS	COMBUSTION; EXTERNAL
A21-02-005-000	Stationary Source Fuel Combustion; Industrial; Residual Oil; Total: All Boiler Types	INDUSTRIAL	BOILER	FUEL OIL; RESIDUAL	COMBUSTION; EXTERNAL
A21-02-006-001	Stationary Source Fuel Combustion; Industrial; Natural Gas; All Boiler Types	INDUSTRIAL	BOILER	NATURAL GAS	COMBUSTION; EXTERNAL
A21-02-007-000	Stationary Source Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG); Total: All Boiler Types	INDUSTRIAL	BOILER	LIQUIFIED PETROLEUM GAS (LPG)	COMBUSTION; EXTERNAL
A21-02-008-000	Stationary Source Fuel Combustion; Industrial; Wood; Total: All Boiler Types	INDUSTRIAL	BOILER	WOOD	COMBUSTION; EXTERNAL
A21-02-009-000	Stationary Source Fuel Combustion; Industrial; Coke; Total: All Boiler Types	INDUSTRIAL	BOILER	COKE	COMBUSTION; EXTERNAL

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Boilers					
A21-02-010-000	Stationary Source Fuel Combustion; Industrial; Process Gas; Total: All Boiler Types	INDUSTRIAL	BOILER	PROCESS GAS	COMBUSTION; EXTERNAL
Chemical Manufacturing					
3-01-018-01	Industrial Processes; Chemical Manufacturing; Plastics Production; Polyvinyl Chlorides and Copolymers ** (Use 6-46-3X0-XX)	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; POLYVINYL CHLORIDES AND	
3-01-018-02	Industrial Processes; Chemical Manufacturing; Plastics Production; Polypropylene and Copolymers	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; POLYPROPYLENE AND COPOLYMERS	
3-01-018-03	Industrial Processes; Chemical Manufacturing; Plastics Production; Ethylene-Propylene Copolymers	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; ETHYLENE-PROPYLENE COPOLYMERS	
3-01-018-05	Industrial Processes; Chemical Manufacturing; Plastics Production; Phenolic Resins	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; PHENOLIC RESINS	
3-01-018-07	Industrial Processes; Chemical Manufacturing; Plastics Production; General: Polyethylene (High Density)	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; HIGH DENSITY POLYETHYLENE	
3-01-018-08	Industrial Processes; Chemical Manufacturing; Plastics Production; Monomer and Solvent Storage	PLASTICS PRODUCTION	STORAGE	MONOMER AND SOLVENT	
3-01-018-09	Industrial Processes; Chemical Manufacturing; Plastics Production; Extruder	PLASTICS PRODUCTION	EXTRUDER		
3-01-018-10	Industrial Processes; Chemical Manufacturing; Plastics Production; Conveying	PLASTICS PRODUCTION	CONVEYING		
3-01-018-11	Industrial Processes; Chemical Manufacturing; Plastics Production; Storage	PLASTICS PRODUCTION	STORAGE		
3-01-018-12	Industrial Processes; Chemical Manufacturing; Plastics Production; General: Polyethylene (Low Density)	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; LOW DENSITY POLYETHYLENE	
3-01-018-13	Industrial Processes; Chemical Manufacturing; Plastics Production; Recovery and Purification System	PLASTICS PRODUCTION	RECOVERY AND PURIFICATION SYSTEM		

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Chemical Manufacturing					
3-01-018-14	Industrial Processes; Chemical Manufacturing; Plastics Production; Extruder	PLASTICS PRODUCTION	EXTRUDER		
3-01-018-15	Industrial Processes; Chemical Manufacturing; Plastics Production; Pellet Silo	PLASTICS PRODUCTION	PELLET SILO		
3-01-018-16	Industrial Processes; Chemical Manufacturing; Plastics Production; Transferring/Handling/Loading/Packing	PLASTICS PRODUCTION	TRANSFERRING/HANDLING/LO ADING/PACKING		
3-01-018-17	Industrial Processes; Chemical Manufacturing; Plastics Production; General	PLASTICS PRODUCTION	PROCESS UNIT		
3-01-018-18	Industrial Processes; Chemical Manufacturing; Plastics Production; Reactor	PLASTICS PRODUCTION	REACTOR		
3-01-018-19	Industrial Processes; Chemical Manufacturing; Plastics Production; Solvent Recovery	PLASTICS PRODUCTION	SOLVENT RECOVERY		
3-01-018-20	Industrial Processes; Chemical Manufacturing; Plastics Production; Polymer Drying	PLASTICS PRODUCTION	POLYMER DRYING		
3-01-018-21	Industrial Processes; Chemical Manufacturing; Plastics Production; Extruding/Pelletizing/Conveying/Storage	PLASTICS PRODUCTION	EXTRUDING/PELLITIZING/CO NVEYING/STORAGE		
3-01-018-22	Industrial Processes; Chemical Manufacturing; Plastics Production; Acrylic Resins	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; ACRYLIC RESINS	
3-01-018-27	Industrial Processes; Chemical Manufacturing; Plastics Production; Polyamide Resins	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; POLYAMIDE RESINS	
3-01-018-32	Industrial Processes; Chemical Manufacturing; Plastics Production; Urea-Formaldehyde Resins	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; UREA-FORMALDEHYDE RESINS	
3-01-018-37	Industrial Processes; Chemical Manufacturing; Plastics Production; Polyester Resins	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; POLYESTER RESINS	
3-01-018-38	Industrial Processes; Chemical Manufacturing; Plastics Production; Reactor Kettle ** (Use 6-45-200-11 or 6-45-210-11)	PLASTICS PRODUCTION	REACTOR KETTLE		

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Chemical Manufacturing					
3-01-018-39	Industrial Processes; Chemical Manufacturing; Plastics Production; Resin Thinning Tank ** (Use 6-45-200-21 or 6-45-210-21)	PLASTICS PRODUCTION	THINNING TANK	RESIN	
3-01-018-40	Industrial Processes; Chemical Manufacturing; Plastics Production; Resin Storage Tank ** (Use 6-45-200-23 or 6-45-210-23)	PLASTICS PRODUCTION	STORAGE TANK	RESIN	
3-01-018-42	Industrial Processes; Chemical Manufacturing; Plastics Production; Melamine Resins	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; MELAMINE RESINS	
3-01-018-47	Industrial Processes; Chemical Manufacturing; Plastics Production; Epoxy Resins	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; EPOXY RESINS	
3-01-018-49	Industrial Processes; Chemical Manufacturing; Plastics Production; Acrylonitrile-Butadiene-Styrene (ABS) Resin	PLASTICS PRODUCTION	PROCESS UNIT	END PRODUCT; ACRYLONITRILE-BUTA DIENE-STYRENE	
3-01-018-52	Industrial Processes; Chemical Manufacturing; Plastics Production; Polyfluorocarbons	PLASTICS PRODUCTION		END PRODUCT; POLYFLUOROCARBONS	
3-01-018-60	Industrial Processes; Chemical Manufacturing; Plastics Production; Recovery System (Polyethylene)	PLASTICS PRODUCTION	RECOVERY SYSTEM	END PRODUCT; POLYETHYLENE	
3-01-018-61	Industrial Processes; Chemical Manufacturing; Plastics Production; Purification System (Polyethylene)	PLASTICS PRODUCTION	PURIFICATION SYSTEM	END PRODUCT; POLYETHYLENE	
3-01-018-63	Industrial Processes; Chemical Manufacturing; Plastics Production; Extruder	PLASTICS PRODUCTION	EXTRUDER		
3-01-018-64	Industrial Processes; Chemical Manufacturing; Plastics Production; Pellet Silo/Storage	PLASTICS PRODUCTION	PELLET SILO/STORAGE		
3-01-018-65	Industrial Processes; Chemical Manufacturing; Plastics Production; Transferring/Conveying	PLASTICS PRODUCTION	CONVEYOR		
3-01-018-66	Industrial Processes; Chemical Manufacturing; Plastics Production; Packing/Shipping	PLASTICS PRODUCTION	PACKING/SHIPPING		
3-01-018-70	Industrial Processes; Chemical Manufacturing; Plastics Production; Reactor (Polyether Resins)	PLASTICS PRODUCTION	REACTOR	END PRODUCT; POLYETHER RESINS	

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Chemical Manufacturing					
3-01-018-71	Industrial Processes; Chemical Manufacturing; Plastics Production; Blowing Agent: Freon (Polyether Resins)	PLASTICS PRODUCTION	BLOWING AGENT; FREON	END PRODUCT; POLYETHER RESINS	
3-01-018-72	Industrial Processes; Chemical Manufacturing; Plastics Production; Miscellaneous (Polyether Resins)	PLASTICS PRODUCTION		END PRODUCT; POLYETHER RESINS	
3-01-018-80	Industrial Processes; Chemical Manufacturing; Plastics Production; Reactor (Polyurethane)	PLASTICS PRODUCTION	REACTOR	END PRODUCT; POLYURETHANE	
3-01-018-81	Industrial Processes; Chemical Manufacturing; Plastics Production; Blowing Agent: Freon (Polyurethane)	PLASTICS PRODUCTION	BLOWING AGENT; FREON	END PRODUCT; POLYURETHANE	
3-01-018-82	Industrial Processes; Chemical Manufacturing; Plastics Production; Blowing Agent: Methylene Chloride (Polyurethane)	PLASTICS PRODUCTION	BLOWING AGENT; METHYLENE CHLORIDE	END PRODUCT; POLYURETHANE	
3-01-018-83	Industrial Processes; Chemical Manufacturing; Plastics Production; Transferring/Conveying/Storage (Polyurethane)	PLASTICS PRODUCTION	TRANSFERRING/CONVEYING/S TORAGE	END PRODUCT; POLYURETHANE	
3-01-018-84	Industrial Processes; Chemical Manufacturing; Plastics Production; Packing/Shipping (Polyurethane)	PLASTICS PRODUCTION	PACKING/SHIPPING	END PRODUCT; POLYURETHANE	
3-01-018-85	Industrial Processes; Chemical Manufacturing; Plastics Production; Other Not Classified (Polyurethane)	PLASTICS PRODUCTION		END PRODUCT; POLYURETHANE	
3-01-018-90	Industrial Processes; Chemical Manufacturing; Plastics Production; Catalyst Preparation	PLASTICS PRODUCTION	CATALYST PREPARATION		
3-01-018-91	Industrial Processes; Chemical Manufacturing; Plastics Production; Reactor Vents	PLASTICS PRODUCTION	REACTOR		VENTED
3-01-018-92	Industrial Processes; Chemical Manufacturing; Plastics Production; Separation Processes	PLASTICS PRODUCTION	SEPARATION PROCESSES		
3-01-018-93	Industrial Processes; Chemical Manufacturing; Plastics Production; Raw Material Storage	PLASTICS PRODUCTION	STORAGE	RAW MATERIAL	
3-01-018-94	Industrial Processes; Chemical Manufacturing; Plastics Production; Solvent Storage	PLASTICS PRODUCTION	STORAGE	SOLVENT	

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Chemical Manufacturing					
3-01-018-99	Industrial Processes; Chemical Manufacturing; Plastics Production; Others Not Specified	PLASTICS PRODUCTION			
3-01-019-01	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; o-Xylene Oxidation: Main Process Stream	PHTHALIC ANHYDRIDE MANUFACTURING	OXIDATION; MAIN PROCESS STREAM	o-XYLENE	
3-01-019-02	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; o-Xylene Oxidation: Pre-Treatment	PHTHALIC ANHYDRIDE MANUFACTURING	OXIDATION; PRETREATMENT	o-XYLENE	
3-01-019-04	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; o-Xylene Oxidation: Distillation	PHTHALIC ANHYDRIDE MANUFACTURING	OXIDATION; DISTILLATION	o-XYLENE	
3-01-019-05	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; Naphthalene Oxidation: Main Process Stream	PHTHALIC ANHYDRIDE MANUFACTURING	OXIDATION; MAIN PROCESS STREAM	NAPHTHALENE	
3-01-019-06	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; Naphthalene Oxidation: Pre-Treatment	PHTHALIC ANHYDRIDE MANUFACTURING	OXIDATION; PRE-TREATMENT	NAPHTHALENE	
3-01-019-07	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; Naphthalene Oxidation: Distillation	PHTHALIC ANHYDRIDE MANUFACTURING	OXIDATION; DISTILLATION	NAPHTHALENE	
3-01-019-08	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; Dryer	PHTHALIC ANHYDRIDE MANUFACTURING	DRYER		
3-01-019-09	Industrial Processes; Chemical Manufacturing; Phthalic Anhydride; Flaking and Bagging	PHTHALIC ANHYDRIDE MANUFACTURING	FLAKING AND BAGGING		
3-01-021-01	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Solvay Process: NH3 Recovery	SODIUM CARBONATE MANUFACTURING; SOLVAY PROCESS	AMMONIA RECOVERY		
3-01-021-02	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Solvay Process: Handling	SODIUM CARBONATE MANUFACTURING; SOLVAY PROCESS	HANDLING		
3-01-021-03	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Trona Crushing/Screening	SODIUM CARBONATE MANUFACTURING	CRUSHING/SCREENING	TRONA	
3-01-021-04	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Monohydrate Process: Rotary Ore Calciner: Gas-fired	SODIUM CARBONATE MANUFACTURING; MONOHYDRATE	ROTARY ORE CALCINER; FUEL FIRED	GAS	PROCESS + COMBUSTION

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Chemical Manufacturing					
3-01-021-05	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Monohydrate Process: Rotary Ore Calciner: Coal-fired	SODIUM CARBONATE MANUFACTURING; MONOHYDRATE	ROTARY ORE CALCINER; FUEL FIRED	COAL	PROCESS + COMBUSTION
3-01-021-06	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Rotary Soda Ash Dryers	SODIUM CARBONATE MANUFACTURING	ROTARY DRYER	SODA ASH	
3-01-021-07	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Fluid-bed Soda Ash Dryers/Coolers	SODIUM CARBONATE MANUFACTURING	FLUID-BED DRYERS/COOLERS	SODA ASH	
3-01-021-08	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Dissolver	SODIUM CARBONATE MANUFACTURING	DISSOLVER		
3-01-021-10	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Trona Calcining **	SODIUM CARBONATE MANUFACTURING	CALCINER	TRONA	
3-01-021-11	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Trona Dryer **	SODIUM CARBONATE MANUFACTURING	DRYER	TRONA	
3-01-021-12	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Rotary Pre-dryer	SODIUM CARBONATE MANUFACTURING	ROTARY PRE-DRYER		
3-01-021-13	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Bleacher: Gas-fired	SODIUM CARBONATE MANUFACTURING	BLEACHER; FUEL FIRED	GAS	PROCESS + COMBUSTION
3-01-021-14	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Rotary Dryer: Steam Tube	SODIUM CARBONATE MANUFACTURING	ROTARY DRYER; STEAM TUBE		
3-01-021-20	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Brine Evaporation	SODIUM CARBONATE MANUFACTURING	BRINE EVAPORATION		
3-01-021-21	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Ore Crushing and Screening	SODIUM CARBONATE MANUFACTURING	CRUSHING AND SCREENING	ORE	
3-01-021-22	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Soda Ash Storage: Loading and Unloading	SODIUM CARBONATE MANUFACTURING	STORAGE	SODA ASH	LOADING + UNLOADING
3-01-021-23	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Ore Mining	SODIUM CARBONATE MANUFACTURING	MINING	ORE	

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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Chemical Manufacturing					
3-01-021-24	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Ore Transfer	SODIUM CARBONATE MANUFACTURING	TRANSFER	ORE	
3-01-021-25	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Sesquicarbonate Process: Rotary Calciner	SODIUM CARBONATE MANUFACTURING; SESQUICARBONATE	ROTARY CALCINER		
3-01-021-26	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Sesquicarbonate Process: Fluid-bed Calciner	SODIUM CARBONATE MANUFACTURING; SESQUICARBONATE	FLUID-BED CALCINER		
3-01-021-27	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Soda Ash Screening	SODIUM CARBONATE MANUFACTURING	SCREENING	SODA ASH	
3-01-021-99	Industrial Processes; Chemical Manufacturing; Sodium Carbonate; Other Not Classified	SODIUM CARBONATE MANUFACTURING			
3-01-023-01	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 99.9% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-04	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 99.5% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-06	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 99.0% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-08	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 98.0% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-10	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 97.0% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-12	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 96.0% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-14	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 95.0% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-16	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 94.0% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		

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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Chemical Manufacturing					
3-01-023-18	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber/@ 93.0% Conversion	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS UNIT WITH ABSORBER		
3-01-023-19	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Concentrator	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	CONCENTRATOR		
3-01-023-20	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Tank Car and Truck Unloading	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	TANK CAR/TRUCK		UNLOADING
3-01-023-21	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Storage Tank Vent	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	STORAGE TANK		VENTED
3-01-023-22	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Process Equipment Leaks	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	PROCESS EQUIPMENT LEAKS		FUGITIVE
3-01-023-23	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Sulfur Melting and Filtering	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	MELTING AND FILTERING	SULFUR	
3-01-023-24	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Oleum Tower	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	OLEUM TOWER		
3-01-023-25	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Gas Cleaning and Cooling	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	GAS CLEANING AND COOLING		
3-01-023-30	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Combustion Chamber	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	COMBUSTION CHAMBER		
3-01-023-31	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Drying Tower	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	DRYING TOWER		
3-01-023-32	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Convertor	SULFURIC ACID MANUFACTURING; CONTACT PROCESS	CONVERTOR		
3-01-023-99	Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Other Not Classified	SULFURIC ACID MANUFACTURING; CONTACT PROCESS			
Construction					

APPENDIX A
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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Construction					
3-11-001-01	Industrial Processes; Building Construction; Construction: Building Contractors; Site Preparation: Topsoil Removal	BUILDING CONSTRUCTION	SITE PREPARATION		
3-11-001-02	Industrial Processes; Building Construction; Construction: Building Contractors; Site Preparation: Earth Moving (Cut and Fill)	BUILDING CONSTRUCTION	CUT AND FILL OPERATIONS		
3-11-001-03	Industrial Processes; Building Construction; Construction: Building Contractors; Site Preparation: Aggregate Hauling (On Dirt)	BUILDING CONSTRUCTION	AGGREGATE HAULING		
3-11-001-99	Industrial Processes; Building Construction; Construction: Building Contractors; Other Not Classified	BUILDING CONSTRUCTION			
3-11-002-01	Industrial Processes; Building Construction; Demolitions/Special Trade Contracts; Mechanical or Explosive Dismemberment	BUILDING CONSTRUCTION	DISMEMBERMENT		
3-11-002-02	Industrial Processes; Building Construction; Demolitions/Special Trade Contracts; Mechanical or Explosive Dismemberment	BUILDING CONSTRUCTION	DISMEMBERMENT		
3-11-002-03	Industrial Processes; Building Construction; Demolitions/Special Trade Contracts; Debris Loading	BUILDING CONSTRUCTION	LOADING	DEMOLITION DEBRIS	
3-11-002-04	Industrial Processes; Building Construction; Demolitions/Special Trade Contracts; Debris Loading	BUILDING CONSTRUCTION	LOADING	DEMOLITION DEBRIS	
3-11-002-05	Industrial Processes; Building Construction; Demolitions/Special Trade Contracts; On-site Truck Traffic	BUILDING CONSTRUCTION	VEHICLE TRAFFIC	DEMOLITION DEBRIS	
3-11-002-06	Industrial Processes; Building Construction; Demolitions/Special Trade Contracts; On-site Truck Traffic	BUILDING CONSTRUCTION	VEHICLE TRAFFIC	DEMOLITION DEBRIS	
3-11-002-99	Industrial Processes; Building Construction; Demolitions/Special Trade Contracts; Other Not Classified: Construction/Demolition	BUILDING CONSTRUCTION	DEMOLITION		
A23-11-000-000	Industrial Processes; Construction: SIC 15 - 17; All Processes; Total	CONSTRUCTION			
A23-11-000-010	Industrial Processes; Construction: SIC 15 - 17; All Processes; Land Clearing	CONSTRUCTION	LAND CLEARING		

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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Construction					
A23-11-000-020	Industrial Processes; Construction: SIC 15 - 17; All Processes; Demolition	CONSTRUCTION	DEMOLITION		
A23-11-000-030	Industrial Processes; Construction: SIC 15 - 17; All Processes; Blasting	CONSTRUCTION	BLASTING		
A23-11-000-040	Industrial Processes; Construction: SIC 15 - 17; All Processes; Ground Excavations	CONSTRUCTION	GROUND EXCAVATIONS		
A23-11-000-050	Industrial Processes; Construction: SIC 15 - 17; All Processes; Cut and Fill Operations	CONSTRUCTION	CUT AND FILL OPERATIONS		
A23-11-000-060	Industrial Processes; Construction: SIC 15 - 17; All Processes; Construction	CONSTRUCTION	CONSTRUCTION ACTIVITIES		
A23-11-000-070	Industrial Processes; Construction: SIC 15 - 17; All Processes; Vehicle Traffic	CONSTRUCTION	VEHICLE TRAFFIC		
A23-11-000-080	Industrial Processes; Construction: SIC 15 - 17; All Processes; Welding Operations	CONSTRUCTION	WELDING OPERATIONS		
A23-11-000-100	Industrial Processes; Construction: SIC 15 - 17; All Processes; Wind Erosion	CONSTRUCTION	WIND EROSION		
Food and Agricultural					
3-02-015-01	Industrial Processes; Food and Agriculture; Sugar Cane Processing; General	SUGAR CANE PROCESSING	TOTAL; ENTIRE PROCESS		
3-02-015-05	Industrial Processes; Food and Agriculture; Sugar Cane Production; Clarifier	SUGAR CANE PROCESSING	CLARIFIER		
3-02-015-10	Industrial Processes; Food and Agriculture; Sugar Cane Production; Cane Sugar Dryer	SUGAR CANE PROCESSING	CANE SUGAR DRYER		
3-02-015-26	Industrial Processes; Food and Agriculture; Sugar Cane Refining; Adsorbent Conveyor Transfer	SUGAR CANE PROCESSING	ADSORBENT CONVEYOR TRANSFER		

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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Food and Agricultural					
3-02-015-30	Industrial Processes; Food and Agriculture; Sugar Cane Refining; Evaporator	SUGAR CANE PROCESSING	EVAPORATOR		
3-02-015-35	Industrial Processes; Food and Agriculture; Sugar Cane Refining; Sugar Dryer	SUGAR CANE PROCESSING	SUGAR DRYER		
3-02-015-36	Industrial Processes; Food and Agriculture; Sugar Cane Refining; Sugar Cooler	SUGAR CANE PROCESSING	SUGAR COOLER		
3-02-015-37	Industrial Processes; Food and Agriculture; Sugar Cane Refining; Sugar Granulator (Dryer & Cooler)	SUGAR CANE PROCESSING	SUGAR GRANULATOR; DRYER & COOLER		
3-02-015-40	Industrial Processes; Food and Agriculture; Sugar Cane Refining; Screen	SUGAR CANE PROCESSING	SCREEN		
3-02-015-99	Industrial Processes; Food and Agriculture; Sugar Cane Processing; Other Not Classified	SUGAR CANE PROCESSING			
3-02-016-01	Industrial Processes; Food and Agriculture; Sugar Beet Processing; Pulp Dryer : Coal-fired	SUGAR BEET PROCESSING	PULP DRYER; FUEL-FIRED	COAL	PROCESS + COMBUSTION
3-02-016-05	Industrial Processes; Food and Agriculture; Sugar Beet Processing; Pulp Dryer : Oil-fired	SUGAR BEET PROCESSING	PULP DRYER; FUEL-FIRED	OIL	PROCESS + COMBUSTION
3-02-016-08	Industrial Processes; Food and Agriculture; Sugar Beet Processing; Pulp Dryer : Natural Gas-fired	SUGAR BEET PROCESSING	PULP DRYER; FUEL-FIRED	NATURAL GAS	PROCESS + COMBUSTION
Mineral Products					
3-05-027-01	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Primary Crushing of Raw Material	INDUSTRIAL SAND AND GRAVEL	PRIMARY CRUSHING	RAW MATERIAL	
3-05-027-05	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Secondary Crushing	INDUSTRIAL SAND AND GRAVEL	SECONDARY CRUSHING		
3-05-027-09	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Grinding: Size Reduction to 50 Microns or Smaller	INDUSTRIAL SAND AND GRAVEL	GRINDING		

APPENDIX A
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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Mineral Products					
3-05-027-13	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Screening: Size Classification	INDUSTRIAL SAND AND GRAVEL	SCREENING		
3-05-027-17	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Draining: Removal of Moisture to About 6% After Froth Flotation	INDUSTRIAL SAND AND GRAVEL	DRAINING		
3-05-027-20	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Sand Drying: Gas- or Oil-fired Rotary or Fluidized Bed Dryer	INDUSTRIAL SAND AND GRAVEL	DRYING		
3-05-027-21	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Sand Drying: Gas-fired Rotary Dryer	INDUSTRIAL SAND AND GRAVEL	ROTARY DRYER	NATURAL GAS	
3-05-027-22	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Sand Drying: Oil-fired Rotary Dryer	INDUSTRIAL SAND AND GRAVEL	ROTARY DRYER	FUEL OIL	
3-05-027-23	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Sand Drying: Gas-fired Fluidized Bed Dryer	INDUSTRIAL SAND AND GRAVEL	FLUIDIZED BED DRYER	NATURAL GAS	
3-05-027-24	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Sand Drying: Oil-fired Fluidized Bed Dryer	INDUSTRIAL SAND AND GRAVEL	FLUIDIZED BED DRYER	FUEL OIL	
3-05-027-30	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Cooling of Dried Sand	INDUSTRIAL SAND AND GRAVEL	COOLING		
3-05-027-40	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Final Classifying: Screening to Classify Sand by Size	INDUSTRIAL SAND AND GRAVEL	FINAL CLASSIFYING		
3-05-027-60	Industrial Processes; Mineral Products; Industrial Sand and Gravel; Sand Handling, Transfer, and Storage	INDUSTRIAL SAND AND GRAVEL	HANDLING, TRANSFER, AND STORAGE		
Miscellaneous Area Sources					
A24-60-000-000	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Total: All Solvent Types	NON-INDUSTRIAL		TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-60-000-030	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Acetone	NON-INDUSTRIAL		ACETONE	SOLVENT EVAPORATION

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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Miscellaneous Area Sources					
A24-60-000-055	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Butyl Acetate	NON-INDUSTRIAL		BUTYL ACETATE	SOLVENT EVAPORATION
A24-60-000-060	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Butyl Alcohols: All Types	NON-INDUSTRIAL		BUTYL ALCOHOLS: ALL TYPES	SOLVENT EVAPORATION
A24-60-000-065	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; n-Butyl Alcohol	NON-INDUSTRIAL		N-BUTYL ALCOHOL	SOLVENT EVAPORATION
A24-60-000-070	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Isobutyl Alcohol	NON-INDUSTRIAL		ISOBUTYL ALCOHOL	SOLVENT EVAPORATION
A24-60-000-165	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Ethanol	NON-INDUSTRIAL		ETHANOL	SOLVENT EVAPORATION
A24-60-000-170	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Ethyl Acetate	NON-INDUSTRIAL		ETHYL ACETATE	SOLVENT EVAPORATION
A24-60-000-185	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Ethylbenzene	NON-INDUSTRIAL		ETHYLBENZENE	SOLVENT EVAPORATION
A24-60-000-250	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Isopropanol	NON-INDUSTRIAL		ISOPROPANOL	SOLVENT EVAPORATION
A24-60-000-260	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Methanol	NON-INDUSTRIAL		METHANOL	SOLVENT EVAPORATION
A24-60-000-285	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Methyl Isobutyl Ketone	NON-INDUSTRIAL		METHYL ISOBUTYL KETONE	SOLVENT EVAPORATION
A24-60-000-300	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Monochlorobenzene	NON-INDUSTRIAL		MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-60-000-330	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; o-Dichlorobenzene	NON-INDUSTRIAL		O-DICHLOROBENZENE	SOLVENT EVAPORATION
A24-60-000-340	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; p-Dichlorobenzene	NON-INDUSTRIAL		P-DICHLOROBENZENE	SOLVENT EVAPORATION

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SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Miscellaneous Area Sources					
A24-60-000-345	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Perchloroethylene	NON-INDUSTRIAL		PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-60-000-350	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Propylene Glycol	NON-INDUSTRIAL		PROPYLENE GLYCOL	SOLVENT EVAPORATION
A24-60-000-370	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Special Naphthas	NON-INDUSTRIAL		SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-60-000-385	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Trichloroethylene	NON-INDUSTRIAL		TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-60-000-999	Solvent Utilization; Miscellaneous Non-industrial: All Classes; All Processes; Solvents: NEC	NON-INDUSTRIAL			SOLVENT EVAPORATION
A98-10-010-000	Miscellaneous Area Sources; Other Combustion; Managed (Slash/Prescribed) Burning; Total		MANAGED BURNING		COMBUSTION
Miscellaneous Combustion					
A21-02-004-000	Stationary Source Fuel Combustion; Industrial; Distillate Oil; Total: Boilers and IC Engines	INDUSTRIAL	BOILERS AND IC ENGINES	DISTILLATE OIL	COMBUSTION
A21-02-006-000	Stationary Source Fuel Combustion; Industrial; Natural Gas; Total: Boilers and IC Engines	INDUSTRIAL	BOILERS AND IC ENGINES	NATURAL GAS	COMBUSTION
Miscellaneous Manufacturing					
3-08-001-01	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Undertread and Sidewall Cementing	TIRE MANUFACTURE	UNDERTREAD AND SIDEWALL CEMENTING		
3-08-001-02	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Bead Dipping	TIRE MANUFACTURE	BEAD DIPPING		
3-08-001-03	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Bead Swabbing	TIRE MANUFACTURE	BEAD SWABBING		
3-08-001-04	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tire Building	TIRE MANUFACTURE	TIRE BUILDING		

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Miscellaneous Manufacturing					
3-08-001-05	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tread End Cementing	TIRE MANUFACTURE	TREAD END CEMENTING		
3-08-001-06	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Green Tire Spraying	TIRE MANUFACTURE	GREEN TIRE SPRAYING		
3-08-001-07	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tire Curing	TIRE MANUFACTURE	TIRE CURING		
3-08-001-08	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Solvent Mixing	TIRE MANUFACTURE	MIXING	SOLVENT	
3-08-001-09	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Solvent Storage ** (Use 4-07-004-01 thru 4-07-999-98 if	TIRE MANUFACTURE	STORAGE	SOLVENT	
3-08-001-10	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Solvent Storage (Use 4-07-004-01 thru 4-07-999-98 if	TIRE MANUFACTURE	STORAGE	SOLVENT	
3-08-001-11	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Compounding	TIRE MANUFACTURE	COMPOUNDING		
3-08-001-12	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Milling	TIRE MANUFACTURE	MILLING		
3-08-001-13	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tread Extruder	TIRE MANUFACTURE	TREAD EXTRUDER		
3-08-001-14	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Sidewall Extruder	TIRE MANUFACTURE	SIDEWALL EXTRUDER		
3-08-001-15	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Calendering	TIRE MANUFACTURE	CALENDERING		
3-08-001-16	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Latex Dipping	TIRE MANUFACTURE	LATEX DIPPING		
3-08-001-17	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Finishing	TIRE MANUFACTURE	FINISHING		

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Miscellaneous Manufacturing					
3-08-001-20	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Undertread and Sidewall Cementing	TIRE MANUFACTURE	UNDERTREAD AND SIDEWALL CEMENTING		
3-08-001-21	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tread End Cementing	TIRE MANUFACTURE	TREAD END CEMENTING		
3-08-001-22	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Bead Dipping	TIRE MANUFACTURE	BEAD DIPPING		
3-08-001-23	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Green Tire Spraying	TIRE MANUFACTURE	GREEN TIRE SPRAYING		
3-08-001-24	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Bead Swabbing	TIRE MANUFACTURE	BEAD SWABBING		
3-08-001-25	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tire Building	TIRE MANUFACTURE	TIRE BUILDING		
3-08-001-26	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tire Curing	TIRE MANUFACTURE	TIRE CURING		
3-08-001-27	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Compounding	TIRE MANUFACTURE	COMPOUNDING		
3-08-001-28	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Milling	TIRE MANUFACTURE	MILLING		
3-08-001-29	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Tread Extruder	TIRE MANUFACTURE	TREAD EXTRUDER		
3-08-001-30	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Sidewall Extruder	TIRE MANUFACTURE	SIDEWALL EXTRUDER		
3-08-001-31	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Calendering	TIRE MANUFACTURE	CALENDERING		
3-08-001-32	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Latex Dipping	TIRE MANUFACTURE	LATEX DIPPING		

**APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS**

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Miscellaneous Manufacturing					
3-08-001-33	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Finishing	TIRE MANUFACTURE	FINISHING		
3-08-001-97	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Other Not Classified	TIRE MANUFACTURE			
3-08-001-98	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Other Not Classified	TIRE MANUFACTURE			
3-08-001-99	Industrial Processes; Rubber and Miscellaneous Plastics Products; Tire Manufacture; Other Not Classified	TIRE MANUFACTURE			
Mobile Sources					
2-60-003-20	Internal Combustion Engines; Off-highway 2-stroke Gasoline Engines; Industrial Equipment; Industrial Fork Lift: Gasoline Engine (2-stroke)	INDUSTRIAL	FORK LIFT; TWO-CYCLE	GASOLINE	COMBUSTION; INTERNAL
Natural Source					
A27-01-001-000	Natural Sources; Biogenic; Forests; Total	FORESTS		TOTAL; ALL TYPES	
A27-01-010-000	Natural Sources; Biogenic; Oak Forests; Total	FORESTS		OAK	
A27-01-020-000	Natural Sources; Biogenic; Non-oak Forests; Total	FORESTS		NON-OAK	
A27-01-030-000	Natural Sources; Biogenic; Coniferous Forests; Total	FORESTS		CONIFER	
A27-01-200-000	Natural Sources; Biogenic; Vegetation; Total	TOTAL; ALL TYPES	VEGETATION	TOTAL; ALL TYPES	
A27-01-220-000	Natural Sources; Biogenic; Vegetation/Agriculture; Total	AGRICULTURE	VEGETATION	TOTAL; ALL TYPES	
A27-01-220-001	Natural Sources; Biogenic; Vegetation/Agriculture; Alfalfa	AGRICULTURE	VEGETATION	ALFALFA	

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Natural Source					
A27-01-220-002	Natural Sources; Biogenic; Vegetation/Agriculture; Barley/Cotton/Oats/Rye/Misc.	AGRICULTURE	VEGETATION	BARLEY + COTTON + OATS + RYE + MISCELLANEOUS	
A27-01-220-003	Natural Sources; Biogenic; Vegetation/Agriculture; Corn	AGRICULTURE	VEGETATION	CORN	
A27-01-220-004	Natural Sources; Biogenic; Vegetation/Agriculture; Peanuts/Rice	AGRICULTURE	VEGETATION	PEANUTS + RICE	
A27-01-220-005	Natural Sources; Biogenic; Vegetation/Agriculture; Potato	AGRICULTURE	VEGETATION	POTATO	
A27-01-220-006	Natural Sources; Biogenic; Vegetation/Agriculture; Sorghum	AGRICULTURE	VEGETATION	SORGHUM	
A27-01-220-007	Natural Sources; Biogenic; Vegetation/Agriculture; Soybeans	AGRICULTURE	VEGETATION	SOYBEANS	
A27-01-220-008	Natural Sources; Biogenic; Vegetation/Agriculture; Tobacco	AGRICULTURE	VEGETATION	TOBACCO	
A27-01-220-009	Natural Sources; Biogenic; Vegetation/Agriculture; Wheat	AGRICULTURE	VEGETATION	WHEAT	
A27-01-220-999	Natural Sources; Biogenic; Vegetation/Agriculture; All Other Crops	AGRICULTURE	VEGETATION		
A27-01-240-000	Natural Sources; Biogenic; Vegetation/Grassland; Total	GRASSLAND	VEGETATION		
A27-01-260-000	Natural Sources; Biogenic; Vegetation/Scrubland; Total	SCRUBLAND	VEGETATION		
A27-01-280-000	Natural Sources; Biogenic; Vegetation/Urban Vegetation; Total	URBAN	VEGETATION		
A27-01-290-000	Natural Sources; Biogenic; Vegetation/Alpine Meadows; Total	ALPINE MEADOW	VEGETATION		

**APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS**

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Natural Source					
A27-01-400-000	Natural Sources; Biogenic; Soil; Total	TOTAL; ALL TYPES	SOIL		
A27-01-420-000	Natural Sources; Biogenic; Soil/Agriculture; Total	AGRICULTURE	SOIL		
A27-01-440-000	Natural Sources; Biogenic; Soil/Grassland/Pasture; Total	GRASSLAND + PASTURE	SOIL		
A27-01-460-000	Natural Sources; Biogenic; Soil/Wetlands; Total	WETLANDS	SOIL		
A27-01-480-000	Natural Sources; Biogenic; Soil/Forest; Total	FOREST	SOIL		
A27-30-001-000	Natural Sources; Geogenic; Volcanos; Total	GEOGENIC	VOLCANOS		
A27-30-050-000	Natural Sources; Geogenic; Geyser/Geothermal; Total	GEOGENIC	GEYSER/GEOTHERMAL		
A27-30-100-000	Natural Sources; Geogenic; Wind Erosion; Total	GEOGENIC	WIND EROSION		
A27-30-100-001	Natural Sources; Geogenic; Wind Erosion; Dust Devils	GEOGENIC	DUST DEVILS		
A27-40-001-000	Natural Sources; Miscellaneous; Lightning; Total		LIGHTNING		
A27-40-020-000	Natural Sources; Miscellaneous; Water; Total	TOTAL; ALL TYPES		WATER	
A27-40-020-010	Natural Sources; Miscellaneous; Water; Water/Barren	BARREN AREA		WATER	
A27-40-030-000	Natural Sources; Miscellaneous; Fresh Water; Total	TOTAL; ALL TYPES		WATER; FRESH	

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Natural Source					
A27-40-030-010	Natural Sources; Miscellaneous; Fresh Water; Water/Barren	BARREN AREA		WATER; FRESH	
A27-40-040-000	Natural Sources; Miscellaneous; Salt Water; Total	TOTAL; ALL TYPES		WATER; SALT	
A27-40-040-010	Natural Sources; Miscellaneous; Salt Water; Water/Barren	BARREN AREA		WATER; SALT	
Organic Solvent Evaporation					
A24-15-000-000	Solvent Utilization; Degreasing; All Processes/All Industries; Total: All Solvent Types	TOTAL; ALL INDUSTRIES	DEGREASING	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-000-300	Solvent Utilization; Degreasing; All Processes/All Industries; Monochlorobenzene	TOTAL; ALL INDUSTRIES	DEGREASING	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-000-350	Solvent Utilization; Degreasing; All Processes/All Industries; Perchloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING	PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-000-370	Solvent Utilization; Degreasing; All Processes/All Industries; Special Naphthas	TOTAL; ALL INDUSTRIES	DEGREASING	SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-15-000-385	Solvent Utilization; Degreasing; All Processes/All Industries; Trichloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING	TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-000-999	Solvent Utilization; Degreasing; All Processes/All Industries; Solvents: NEC	TOTAL; ALL INDUSTRIES	DEGREASING		SOLVENT EVAPORATION
A24-15-045-000	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): All Processes; Total: All Solvent Types	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-045-300	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): All Processes; Monochlorobenzene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-045-350	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): All Processes; Perchloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING	PERCHLOROETHYLENE	SOLVENT EVAPORATION

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Organic Solvent Evaporation					
A24-15-045-370	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): All Processes; Special Naphthas	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING	SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-15-045-385	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): All Processes; Trichloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING	TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-045-999	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): All Processes; Solvents: NEC	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING		SOLVENT EVAPORATION
A24-15-100-000	Solvent Utilization; Degreasing; All Industries: Open Top Degreasing; Total: All Solvent Types	TOTAL; ALL INDUSTRIES	DEGREASING; OPEN TOP	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-100-300	Solvent Utilization; Degreasing; All Industries: Open Top Degreasing; Monochlorobenzene	TOTAL; ALL INDUSTRIES	DEGREASING; OPEN TOP	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-100-350	Solvent Utilization; Degreasing; All Industries: Open Top Degreasing; Perchloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING; OPEN TOP	PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-100-370	Solvent Utilization; Degreasing; All Industries: Open Top Degreasing; Special Naphthas	TOTAL; ALL INDUSTRIES	DEGREASING; OPEN TOP	SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-15-100-385	Solvent Utilization; Degreasing; All Industries: Open Top Degreasing; Trichloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING; OPEN TOP	TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-100-999	Solvent Utilization; Degreasing; All Industries: Open Top Degreasing; Solvents: NEC	TOTAL; ALL INDUSTRIES	DEGREASING; OPEN TOP		SOLVENT EVAPORATION
A24-15-145-000	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Open Top Degreasing; Total: All Solvent Types	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; OPEN TOP	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-145-300	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Open Top Degreasing; Monochlorobenzene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; OPEN TOP	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-145-350	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Open Top Degreasing; Perchloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; OPEN TOP	PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-145-370	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Open Top Degreasing; Special Naphthas	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; OPEN TOP	SPECIAL NAPHTHAS	SOLVENT EVAPORATION

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Organic Solvent Evaporation					
A24-15-145-385	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Open Top Degreasing; Trichloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; OPEN TOP	TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-145-999	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Open Top Degreasing; Solvents: NEC	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; OPEN TOP		SOLVENT EVAPORATION
A24-15-200-000	Solvent Utilization; Degreasing; All Industries: Conveyerized Degreasing; Total: All Solvent Types	TOTAL; ALL INDUSTRIES	DEGREASING; CONVEYORIZED	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-200-300	Solvent Utilization; Degreasing; All Industries: Conveyerized Degreasing; Monochlorobenzene	TOTAL; ALL INDUSTRIES	DEGREASING; CONVEYORIZED	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-200-350	Solvent Utilization; Degreasing; All Industries: Conveyerized Degreasing; Perchloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING; CONVEYORIZED	PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-200-370	Solvent Utilization; Degreasing; All Industries: Conveyerized Degreasing; Special Naphthas	TOTAL; ALL INDUSTRIES	DEGREASING; CONVEYORIZED	SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-15-200-385	Solvent Utilization; Degreasing; All Industries: Conveyerized Degreasing; Trichloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING; CONVEYORIZED	TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-200-999	Solvent Utilization; Degreasing; All Industries: Conveyerized Degreasing; Solvents: NEC	TOTAL; ALL INDUSTRIES	DEGREASING; CONVEYORIZED		SOLVENT EVAPORATION
A24-15-245-000	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Conveyerized Degreasing; Total: All Solvent Types	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; CONVEYORIZED	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-245-300	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Conveyerized Degreasing; Monochlorobenzene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; CONVEYORIZED	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-245-350	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Conveyerized Degreasing; Perchloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; CONVEYORIZED	PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-245-370	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Conveyerized Degreasing; Special Naphthas	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; CONVEYORIZED	SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-15-245-385	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Conveyerized Degreasing; Trichloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; CONVEYORIZED	TRICHLOROETHYLENE	SOLVENT EVAPORATION

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Organic Solvent Evaporation					
A24-15-245-999	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Conveyerized Degreasing; Solvents: NEC	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; CONVEYORIZED		SOLVENT EVAPORATION
A24-15-300-000	Solvent Utilization; Degreasing; All Industries: Cold Cleaning; Total: All Solvent Types	TOTAL; ALL INDUSTRIES	DEGREASING; COLD CLEANING	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-300-300	Solvent Utilization; Degreasing; All Industries: Cold Cleaning; Monochlorobenzene	TOTAL; ALL INDUSTRIES	DEGREASING; COLD CLEANING	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-300-350	Solvent Utilization; Degreasing; All Industries: Cold Cleaning; Perchloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING; COLD CLEANING	PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-300-370	Solvent Utilization; Degreasing; All Industries: Cold Cleaning; Special Naphthas	TOTAL; ALL INDUSTRIES	DEGREASING; COLD CLEANING	SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-15-300-385	Solvent Utilization; Degreasing; All Industries: Cold Cleaning; Trichloroethylene	TOTAL; ALL INDUSTRIES	DEGREASING; COLD CLEANING	TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-300-999	Solvent Utilization; Degreasing; All Industries: Cold Cleaning; Solvents: NEC	TOTAL; ALL INDUSTRIES	DEGREASING; COLD CLEANING		SOLVENT EVAPORATION
A24-15-345-000	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Cold Cleaning; Total: All Solvent Types	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; COLD CLEANING	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
A24-15-345-300	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Cold Cleaning; Monochlorobenzene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; COLD CLEANING	MONOCHLOROBENZENE	SOLVENT EVAPORATION
A24-15-345-350	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Cold Cleaning; Perchloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; COLD CLEANING	PERCHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-345-370	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Cold Cleaning; Special Naphthas	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; COLD CLEANING	SPECIAL NAPHTHAS	SOLVENT EVAPORATION
A24-15-345-385	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Cold Cleaning; Trichloroethylene	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; COLD CLEANING	TRICHLOROETHYLENE	SOLVENT EVAPORATION
A24-15-345-999	Solvent Utilization; Degreasing; Miscellaneous Manufacturing (SIC 39): Cold Cleaning; Solvents: NEC	MISCELLANEOUS MANUFACTURING (SIC 39)	DEGREASING; COLD CLEANING		SOLVENT EVAPORATION

**APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS**

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Stationary IC Engines					
2-01-001-01	Internal Combustion Engines; Electric Generation; Distillate Oil (Diesel); Turbine	ELECTRIC GENERATION	TURBINE ENGINE	DIESEL	COMBUSTION; INTERNAL
2-01-001-02	Internal Combustion Engines; Electric Generation; Distillate Oil (Diesel); Reciprocating	ELECTRIC GENERATION	RECIPROCATING ENGINE	DIESEL	COMBUSTION; INTERNAL
2-01-001-05	Internal Combustion Engines; Electric Generation; Distillate Oil (Diesel); Reciprocating: Crankcase Blowby	ELECTRIC GENERATION	RECIPROCATING ENGINE	DIESEL	CRANKCASE BLOWBY
2-01-001-06	Internal Combustion Engines; Electric Generation; Distillate Oil (Diesel); Reciprocating: Evaporative Losses (Fuel Storage and Delivery	ELECTRIC GENERATION	FUEL STORAGE AND DELIVERY SYSTEM	DIESEL	EVAPORATIVE LOSSES
2-01-001-07	Internal Combustion Engines; Electric Generation; Distillate Oil (Diesel); Reciprocating: Exhaust	ELECTRIC GENERATION	RECIPROCATING ENGINE	DIESEL	COMBUSTION; INTERNAL
2-01-001-08	Internal Combustion Engines; Electric Generation; Distillate Oil (Diesel); Turbine: Evaporative Losses (Fuel Storage and Delivery System)	ELECTRIC GENERATION	FUEL STORAGE AND DELIVERY SYSTEM	DIESEL	EVAPORATIVE LOSSES
2-01-001-09	Internal Combustion Engines; Electric Generation; Distillate Oil (Diesel); Turbine: Exhaust	ELECTRIC GENERATION	TURBINE ENGINE	DIESEL	COMBUSTION; INTERNAL
Storage/Distribution of Inorganic Chemicals					
A25-20-010-000	Storage and Transport; Inorganic Chemical Storage; Commercial/Industrial: Breathing Loss; Total: All Products	COMMERCIAL/INDUSTRIAL	STORAGE TANKS	TOTAL; ALL PRODUCTS	BREATHING LOSS
A25-20-010-010	Storage and Transport; Inorganic Chemical Storage; Commercial/Industrial: Breathing Loss; Ammonia	COMMERCIAL/INDUSTRIAL	STORAGE TANKS	AMMONIA	BREATHING LOSS
A25-20-010-020	Storage and Transport; Inorganic Chemical Storage; Commercial/Industrial: Breathing Loss; Hydrochloric Acid	COMMERCIAL/INDUSTRIAL	STORAGE TANKS	HYDROCHLORIC ACID	BREATHING LOSS
A25-20-010-030	Storage and Transport; Inorganic Chemical Storage; Commercial/Industrial: Breathing Loss; Nitric Acid	COMMERCIAL/INDUSTRIAL	STORAGE TANKS	NITRIC ACID	BREATHING LOSS
A25-20-010-040	Storage and Transport; Inorganic Chemical Storage; Commercial/Industrial: Breathing Loss; Sulfuric Acid	COMMERCIAL/INDUSTRIAL	STORAGE TANKS	SULFURIC ACID	BREATHING LOSS

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Storage/Distribution of Inorganic Chemicals					
A25-20-010-900	Storage and Transport; Inorganic Chemical Storage; Commercial/Industrial: Breathing Loss; Tank Cleaning	COMMERCIAL/INDUSTR IAL	STORAGE TANKS		TANK CLEANING
Storage/Distribution of Petroleum Products/Organic Chemicals					
A25-01-010-000	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Total: All Products	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES	TOTAL; ALL PRODUCTS	BREATHING LOSS
A25-01-010-030	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Crude Oil	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES	CRUDE OIL	BREATHING LOSS
A25-01-010-060	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Residual Oil	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES	RESIDUAL OIL	BREATHING LOSS
A25-01-010-090	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Distillate Oil	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES	DISTILLATE OIL	BREATHING LOSS
A25-01-010-120	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Gasoline	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES	GASOLINE	BREATHING LOSS
A25-01-010-150	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Jet Naphtha	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES	JET NAPHTHA	BREATHING LOSS
A25-01-010-180	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Kerosene	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES	KEROSENE	BREATHING LOSS
A25-01-010-900	Storage and Transport; Petroleum and Petroleum Product Storage; Commercial/Industrial: Breathing Loss; Tank Cleaning	COMMERCIAL/INDUSTR IAL	TOTAL; ALL STORAGE TYPES		TANK CLEANING
Surface Coating and Printing & Publishing					
4-02-016-01	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Prime Application/Electro-deposition/Dip/Spray	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	COATING APPLICATION	PRIMER	SOLVENT EVAPORATION
4-02-016-02	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Cleaning/Pretreatment	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	CLEANING/PRETREATMENT		SOLVENT EVAPORATION
4-02-016-03	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Coating Mixing	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	MIXING	COATING	SOLVENT EVAPORATION

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Surface Coating and Printing & Publishing					
4-02-016-04	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Coating Storage	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	STORAGE	COATING	SOLVENT EVAPORATION
4-02-016-05	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Equipment Cleanup	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	EQUIPMENT CLEANUP		SOLVENT EVAPORATION
4-02-016-06	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Topcoat Operation	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	COATING APPLICATION	TOPCOAT	SOLVENT EVAPORATION
4-02-016-07	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Sealers	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	COATING APPLICATION	SEALER	SOLVENT EVAPORATION
4-02-016-08	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Deadeners	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	COATING APPLICATION	DEADNER	SOLVENT EVAPORATION
4-02-016-09	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Anti-corrosion Priming	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	COATING APPLICATION	ANTI-CORROSION PRIMER	SOLVENT EVAPORATION
4-02-016-19	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Prime Surfacing Operation	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	COATING APPLICATION	PRIMER	SOLVENT EVAPORATION
4-02-016-20	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Repair Topcoat Application Area	AUTOMOBILE & LIGHT TRUCK SURFACE COATING	REPAIR/TOUCH-UP	TOPCOAT	SOLVENT EVAPORATION
4-02-016-21	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Prime Coating: Solvent-borne - Automobiles	AUTOMOBILE SURFACE COATING	COATING APPLICATION	PRIMER; SOLVENT-BORNE	SOLVENT EVAPORATION
4-02-016-22	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Prime Coating: Electro-deposition - Automobiles	AUTOMOBILE SURFACE COATING	ELECTRO-DEPOSITION	PRIMER	SOLVENT EVAPORATION
4-02-016-23	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Guide Coating: Solvent-borne - Automobiles	AUTOMOBILE SURFACE COATING	COATING APPLICATION	GUIDE COAT; SOLVENT-BORNE	SOLVENT EVAPORATION
4-02-016-24	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Guide Coating: Water-borne - Automobiles	AUTOMOBILE SURFACE COATING	COATING APPLICATION	GUIDE COAT; WATER-BORNE	SOLVENT EVAPORATION
4-02-016-25	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Topcoat: Solvent-borne - Automobiles	AUTOMOBILE SURFACE COATING	COATING APPLICATION	TOPCOAT; SOLVENT-BORNE	SOLVENT EVAPORATION

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Surface Coating and Printing & Publishing					
4-02-016-26	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Topcoat: Water-borne - Automobiles	AUTOMOBILE SURFACE COATING	COATING APPLICATION	TOPCOAT; WATER-BORNE	SOLVENT EVAPORATION
4-02-016-27	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Prime Coating: Solvent-borne - Light Trucks	LIGHT TRUCK SURFACE COATING	COATING APPLICATION	PRIMER; SOLVENT-BORNE	SOLVENT EVAPORATION
4-02-016-28	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Prime Coating: Electro-deposition - Light Trucks	LIGHT TRUCK SURFACE COATING	ELECTRO-DEPOSITION	PRIMER	SOLVENT EVAPORATION
4-02-016-29	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Guide Coating: Solvent-borne - Light Trucks	LIGHT TRUCK SURFACE COATING	COATING APPLICATION	GUIDE COAT; SOLVENT-BORNE	SOLVENT EVAPORATION
4-02-016-30	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Guide Coating: Water-borne - Light Trucks	LIGHT TRUCK SURFACE COATING	COATING APPLICATION	GUIDE COAT; WATER-BORNE	SOLVENT EVAPORATION
4-02-016-31	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Topcoat: Solvent-borne - Light Trucks	LIGHT TRUCK SURFACE COATING	COATING APPLICATION	TOPCOAT; SOLVENT-BORNE	SOLVENT EVAPORATION
4-02-016-32	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Topcoat: Water-borne - Light Trucks	LIGHT TRUCK SURFACE COATING	COATING APPLICATION	TOPCOAT; WATER-BORNE	SOLVENT EVAPORATION
4-02-016-99	Petroleum and Solvent Evaporation; Surface Coating Operations; Automobiles and Light Trucks; Other Not Classified	AUTOMOBILE & LIGHT TRUCK SURFACE COATING			
A24-40-020-000	Solvent Utilization; Miscellaneous Industrial; Adhesive (Industrial) Application; Total: All Solvent Types	MISCELLANEOUS INDUSTRIAL	TOTAL; ALL PROCESSES	TOTAL: ALL SOLVENT TYPES	SOLVENT EVAPORATION
Waste Handling and Disposal					
A26-01-000-000	Waste Disposal, Treatment, and Recovery; On-site Incineration; All Categories; Total	ALL CATEGORIES	ON-SITE INCINERATION		
A26-01-010-000	Waste Disposal, Treatment, and Recovery; On-site Incineration; Industrial; Total	INDUSTRIAL	ON-SITE INCINERATION		
A26-01-020-000	Waste Disposal, Treatment, and Recovery; On-site Incineration; Commercial/Institutional; Total	COMMERCIAL/INSTITUTIONAL	ON-SITE INCINERATION		

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Waste Handling and Disposal					
A26-01-030-000	Waste Disposal, Treatment, and Recovery; On-site Incineration; Residential; Total	RESIDENTIAL	ON-SITE INCINERATION		
A26-10-000-000	Waste Disposal, Treatment, and Recovery; Open Burning; All Categories; Total	ALL CATEGORIES	OPEN BURNING		
A26-10-010-000	Waste Disposal, Treatment, and Recovery; Open Burning; Industrial; Total	INDUSTRIAL	OPEN BURNING		
A26-10-020-000	Waste Disposal, Treatment, and Recovery; Open Burning; Commercial/Institutional; Total	COMMERCIAL/INSTITUTIONAL	OPEN BURNING		
A26-10-030-000	Waste Disposal, Treatment, and Recovery; Open Burning; Residential; Total	RESIDENTIAL	OPEN BURNING		
A26-20-000-000	Waste Disposal, Treatment, and Recovery; Landfills; All Categories; Total	ALL CATEGORIES	LANDFILLS		
A26-20-010-000	Waste Disposal, Treatment, and Recovery; Landfills; Industrial; Total	INDUSTRIAL	LANDFILLS		
A26-20-020-000	Waste Disposal, Treatment, and Recovery; Landfills; Commercial/Institutional; Total	COMMERCIAL/INSTITUTIONAL	LANDFILLS		
A26-20-030-000	Waste Disposal, Treatment, and Recovery; Landfills; Municipal; Total	MUNICIPAL	LANDFILLS		
A26-30-000-000	Waste Disposal, Treatment, and Recovery; Wastewater Treatment; All Categories; Total Processed	ALL CATEGORIES	WASTEWATER TREATMENT		
A26-30-010-000	Waste Disposal, Treatment, and Recovery; Wastewater Treatment; Industrial; Total Processed	INDUSTRIAL	WASTEWATER TREATMENT		
A26-30-020-000	Waste Disposal, Treatment, and Recovery; Wastewater Treatment; Public Owned; Total Processed	PUBLIC OWNED	WASTEWATER TREATMENT		
A26-30-030-000	Waste Disposal, Treatment, and Recovery; Wastewater Treatment; Residential/Subdivision Owned; Total Processed	RESIDENTIAL/SUBDIVISION OWNED	WASTEWATER TREATMENT		

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Waste Handling and Disposal					
A26-40-000-000	Waste Disposal, Treatment, and Recovery; TSDFs; All TSDF Types; Total: All Processes	TSDFs; ALL TYPES	TOTAL: ALL PROCESSES		
A26-40-000-001	Waste Disposal, Treatment, and Recovery; TSDFs; All TSDF Types; Surface Impoundments	TSDFs; ALL TYPES	SURFACE IMPOUNDMENTS		
A26-40-000-002	Waste Disposal, Treatment, and Recovery; TSDFs; All TSDF Types; Land Treatment	TSDFs; ALL TYPES	LAND TREATMENT		
A26-40-000-003	Waste Disposal, Treatment, and Recovery; TSDFs; All TSDF Types; Landfills	TSDFs; ALL TYPES	LANDFILLS		
A26-40-000-004	Waste Disposal, Treatment, and Recovery; TSDFs; All TSDF Types; Transfer, Storage, and Handling	TSDFs; ALL TYPES	TRANSFER, STORAGE, AND HANDLING		
A26-40-010-000	Waste Disposal, Treatment, and Recovery; TSDFs; Industrial; Total: All Processes	TSDFs; INDUSTRIAL	TOTAL: ALL PROCESSES		
A26-40-010-001	Waste Disposal, Treatment, and Recovery; TSDFs; Industrial; Surface Impoundments	TSDFs; INDUSTRIAL	SURFACE IMPOUNDMENTS		
A26-40-010-002	Waste Disposal, Treatment, and Recovery; TSDFs; Industrial; Land Treatment	TSDFs; INDUSTRIAL	LAND TREATMENT		
A26-40-010-003	Waste Disposal, Treatment, and Recovery; TSDFs; Industrial; Landfills	TSDFs; INDUSTRIAL	LANDFILLS		
A26-40-010-004	Waste Disposal, Treatment, and Recovery; TSDFs; Industrial; Transfer, Storage, and Handling	TSDFs; INDUSTRIAL	TRANSFER, STORAGE, AND HANDLING		
A26-40-020-000	Waste Disposal, Treatment, and Recovery; TSDFs; Commercial/Institutional; Total: All Processes	TSDFs; COMMERCIAL/INSTITUTIONAL	TOTAL: ALL PROCESSES		
A26-40-020-001	Waste Disposal, Treatment, and Recovery; TSDFs; Commercial/Institutional; Surface Impoundments	TSDFs; COMMERCIAL/INSTITUTIONAL	SURFACE IMPOUNDMENTS		
A26-40-020-002	Waste Disposal, Treatment, and Recovery; TSDFs; Commercial/Institutional; Land Treatment	TSDFs; COMMERCIAL/INSTITUTIONAL	LAND TREATMENT		

APPENDIX A
MAPPING OF SCCs INTO PCC DATA ELEMENTS

SCC	SCC Description	Site Type	Equipment	Material	Emission Mode
Waste Handling and Disposal					
A26-40-020-003	Waste Disposal, Treatment, and Recovery; TSDFs; Commercial/Institutional; Landfills	TSDFs; COMMERCIAL/INSTITUTIONAL	LANDFILLS		
A26-40-020-004	Waste Disposal, Treatment, and Recovery; TSDFs; Commercial/Institutional; Transfer, Storage, and Handling	TSDFs; COMMERCIAL/INSTITUTIONAL	TRANSFER, STORAGE, AND HANDLING		
A26-50-000-000	Waste Disposal, Treatment, and Recovery; Scrap and Waste Materials; Scrap and Waste Materials; Total: All Processes	WASTE DISPOSAL, TREATMENT, AND RECOVERY	TOTAL: ALL PROCESSES	SCRAP AND WASTE MATERIALS	
A26-50-000-001	Waste Disposal, Treatment, and Recovery; Scrap and Waste Materials; Scrap and Waste Materials; Crushing	WASTE DISPOSAL, TREATMENT, AND RECOVERY	CRUSHING	SCRAP AND WASTE MATERIALS	
A26-50-000-002	Waste Disposal, Treatment, and Recovery; Scrap and Waste Materials; Scrap and Waste Materials; Shredding	WASTE DISPOSAL, TREATMENT, AND RECOVERY	SHREDDING	SCRAP AND WASTE MATERIALS	
A26-50-000-003	Waste Disposal, Treatment, and Recovery; Scrap and Waste Materials; Scrap and Waste Materials; Sorting	WASTE DISPOSAL, TREATMENT, AND RECOVERY	SORTING	SCRAP AND WASTE MATERIALS	
A26-50-000-004	Waste Disposal, Treatment, and Recovery; Scrap and Waste Materials; Scrap and Waste Materials; Transferring	WASTE DISPOSAL, TREATMENT, AND RECOVERY	TRANSFERRING	SCRAP AND WASTE MATERIALS	
A26-50-000-005	Waste Disposal, Treatment, and Recovery; Scrap and Waste Materials; Scrap and Waste Materials; Storage Piles	WASTE DISPOSAL, TREATMENT, AND RECOVERY	STORAGE PILES	SCRAP AND WASTE MATERIALS	
A26-60-000-000	Waste Disposal, Treatment, and Recovery; Leaking Underground Storage Tanks; Leaking Underground Storage Tanks; Total: All Storage Types	WASTE DISPOSAL, TREATMENT, AND RECOVERY	LEAKING UNDERGROUND STORAGE TANKS		