

Appendix B

Area Source Inventory Documentation

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1.0 INTRODUCTION AND SCOPE

Area sources represent a collection of many small, unidentified points of air pollution emissions within a specified geographical area, emitting less than the minimum level prescribed for point sources. Because these sources are too small and/or too numerous to be surveyed and characterized individually, all area source activities are collectively estimated. The county is usually the geographic area for which emissions from area sources are compiled, primarily because counties are the smallest areas for which data used for estimating emissions is readily available.

The area source inventories detailed in this section have been developed for York County as well as the Rock Hill Fort Mill Area Transportation Study (RFATS) Metropolitan Planning Organization (MPO) portion of York County (also referred to as the York NA area), South Carolina within the Charlotte-Gastonia-Rock Hill, NC-SC nonattainment area for the 1997 8-hour ozone NAAQS Redesignation Demonstration and Maintenance Plan. All emissions are calculated on a ton per day basis.

2.0 OVERALL METHODOLOGY

2.1 BASELINE EMISSIONS INVENTORY

The beginning emission inventory for this document is the 2007 SEMAP inventory. The SEMAP inventory was developed by E.H. Pechan & Associates, Inc. (Pechan) in support of the Southeastern States Air Resource Managers, Inc. (SESARM) in the Southeastern Modeling, Analysis, and Planning (SEMAP) project that is funded by the same ten states originally involved in the Visibility Improvement - State and Tribal Association of the Southeast (VISTAS) project. The SEMAP project addresses the next phase of ozone, fine particle, and regional haze assessment obligations of the SESARM member states. The SEMAP project is designed to produce technical analyses to aid the participating agencies in developing State Implementation Plans (SIPs) required by the Clean Air Act (CAA).

2.2 EMISSION ESTIMATION APPROACH

Pechan developed a draft 2007 area source base year inventory emission estimates (Pechan, 2010). These estimates are reported by county and source classification code (SCC). These emissions inventories were developed using data from a number of sources:

- State/local (S/L) agency emissions data.
- 2007 area source emissions estimated by Pechan, generally developed using the emissions estimation procedures used to prepare EPA's draft 2008 National Emissions Inventory (NEI); 2008 NEI methods rely on Eastern Regional Technical Advisory Committee (ERTAC) methods when available.
- Emission estimates carried forward or grown from EPA's 2002 area source NEI. Based on direction from S/L agencies, some 2002 NEI emission estimates were projected to 2007 using emission activity growth factors from Version 5.0 of the Economic Growth Analysis System (EGAS) (EPA, 2010).

This final inventory incorporates the following information into the draft 2007 area source inventory:

1. Additional S/L agency data and comments to revise/remove emission estimates reported in the draft inventory; and
2. Effects of point source subtractions on source categories for which draft area source emission estimates reflect total emissions activity (e.g., industrial natural gas combustion).

2.3 ALLOCATION OF EMISSIONS TO YORK NONATTAINMENT AREA

The SEMAP area source inventory contains emissions at the county-level. The ratio of the York NA area population to the county population was used to estimate emissions for the York NA area. Table 2.3-1 contains the 2005 population for York County. The York NA area population was determined from the RFATS MPO 2005 Baseline Socio-Economic Data (submitted to Charlotte in 2006). Using this data, the estimated York NA area population is 153,900, and 75.8 percent of York County’s population is in the York NA area. This percentage was used to allocate the county-level emissions to the York NA area.

Table 2.3-1 Population Data

Population of York County	203,054
Population of York NA area	153,900
Percentage of Population in York NA area	75.8

2.4 EMISSIONS PROJECTIONS

The emissions inventory was projected to future years by utilizing EPA’s Economic Growth Analysis System (E-GAS) version 5 software. There are two major data sources that are used as growth indicators in EGAS 5.0: the Department of Energy’s (DOE) *Annual Energy Outlook* and version 6.0 of Regional Economic Models, Inc. (REMI) state-level economic models. In general, DOE data are expected to be used as growth indicators for fuel combustion/production categories, while REMI data will be used for all other source categories. These EGAS Growth Factors will be provided with each category discussed. This project methodology was first used to develop a 2010 base year inventory and then to develop the future years of 2013, 2016, 2019, and 2022.

3.0 BASELINE INVENTORY

Pechan developed a final 2007 base year area source inventory for the SEMAP project from a combination of four data sources:

- 1) State/Local agency supplied area source emissions data;
- 2) Pechan 2007 area source emission estimates developed using the emission estimation methods from the 2008 NEI with adjustments to reflect 2007 emissions activity and to subtract point source emissions;
- 3) Pechan 2007 industrial and commercial/institutional fuel combustion area source emission estimates specifically developed for the SESARM states; and
- 4) Area source emission estimates carried forward or grown from EPA's 2002 nonpoint source NEI.

The South Carolina portion of the SEMAP inventory was created by using Pechan defaults, supplemented with carry-forward categories from 2002 NEI grown using EGAS. Furthermore, South Carolina requested that emissions for all NEI-based burning categories be included in our stationary area source inventory. The following sections provide more specifics on the contents of each of these data sources and how they were combined into the final 2007 area source inventory. This 2007 inventory was then used as the basis for the 2010 baseline inventory.

3.1 AGENCY SUPPLIED INVENTORY DATA

Pechan commenced area source inventory development work by providing S/L agencies with a Technical Memorandum documenting the emission estimation methods and data Pechan was using to develop the EPA's 2008 nonpoint source NEI (Pechan, 2009a). The purpose of this memorandum was to provide agencies with information to: (1) review and comment on the methods/data, and (2) assist agencies in evaluating the merits of the NEI methods/data relative to any S/L area source inventory development efforts. State and local agencies then compiled and transmitted area source emissions data to Pechan.

To assist in obtaining direction from SESARM agencies on how to merge the data from these sources, Pechan first identified the SCC/pollutant combinations in the Pechan default inventory that matched to S/L agency data. Next, Pechan reviewed remaining S/L agency SCC/pollutant combinations against Pechan defaults to identify whether it may be possible that these emissions were covered in the Pechan default inventory under different SCCs. Pechan then developed a list of potential indirect matches between the two data sets for agency review. This list was compiled in an Excel worksheet. Next, Pechan developed a separate worksheet that listed SCC/pollutant combinations in the S/L supplied area source inventory that we were unable to either directly or indirectly match to combinations in the Pechan default inventory. A list of SCC/pollutant combinations in the Pechan default inventory that Pechan was unable to directly or indirectly match to combinations in the S/L agency inventory was also prepared in a separate worksheet. Finally, Pechan developed a worksheet that contained all S/L agency inventory SCC/pollutant combinations with emissions equal to "0." The above worksheets were saved in a single Excel workbook for each agency. In addition to these workbooks, Pechan transmitted a Word document identifying questions on how to merge the two data sets (e.g., where S/L

agency emissions are reported as zero, should Pechan replace any of these with emissions from the Pechan default inventory?). After reviewing S/L agency responses to these questions, Pechan transmitted any follow-up questions that were necessary to clarify S/L agency guidance.

3.2 DEVELOPMENT OF PECHAN DEFAULT 2007 AREA SOURCE INVENTORY

Pechan created a default 2007 area source inventory that includes all of the source categories covered by the 2008 nonpoint source NEI. For all source categories except industrial and commercial/institutional (ICI) fuel combustion, Pechan either directly incorporated emissions data from the 2008 nonpoint source NEI (when the NEI represented use of 2007 emissions activity data), or recalculated the NEI emission estimates to reflect 2007 activity levels (when the NEI reflected 2006 or 2008 activity levels) and/or to remove emissions associated with activity reflected in the point source inventory. For ICI fuel combustion, the 2008 nonpoint source NEI only developed emissions activity estimates, not emission estimates. Because of the potential importance of these source categories and the availability of methodological improvements, Pechan utilized an emissions estimation method for ICI fuel combustion that is incorporates a few refinements to the NEI method. The following section discusses how information from the 2008 nonpoint source NEI was used in this project. The subsequent section provides details on the ICI fuel combustion emissions estimation methods.

1. Nonpoint Source NEI

Pechan is supporting EPA efforts to develop the 2008 nonpoint source NEI. Because of data availability issues, the 2008 NEI is comprised of data of various vintages (2006-2008). Table 3.2-1 provides documentation of the 2008 nonpoint source NEI as follows:

- (1) Source Category – identifies the name of each general source category covered.
- (2) Source Classification Code(s) – lists the SCCs that are inventoried.
- (3) Source Classification Code Description – provides a description of each SCC.
- (4) Link to Emission Calculation Documentation – provides links to the detailed documentation of the NEI methods. The complete list of material can be accessed at: http://projects.pechan.com/EPA/Non-Point_Emission_Estimates/.
- (5) Link to Emission Calculation Workbook – provides a link to the draft 2008 NEI emissions or activity data.
- (6) Year of Activity Data – identifies the year represented by the emissions activity data; and Point Source Component – signifies whether a portion of the source category's emissions may be included within the point source inventory.

Table 3.2-1 2008 NEI Area Source Categories for Which EPA Has Developed Emission Estimates

Source Category	Source Classification Code(s)	Source Classification Code Description	Link to Emission Calculation Documentation	Link to Emission Calculation Workbook	Year of Activity Data	Point Source Component
Agriculture Production – Livestock	28050nnnnn	Livestock	Agriculture Production Livestock 28050nnnn Documentation.zip	Agriculture Production Livestock 28050nnnn Emissions.zip	2007	Yes
Asphalt Paving	2461021000	Cutback Asphalt	Asphalt Paving Cutback 2461021000 Documentation.zip	Asphalt Paving Cutback 2461021000 Emissions.zip	2008	No
	2461022000	Emulsified Asphalt	Asphalt Paving Emulsified 2461022000 Documentation.zip	Asphalt Paving Emulsified 2461022000 Emissions.zip	2008	No
Aviation Gasoline Distribution: Stage I	2501080050	Aviation Gasoline: Stage I	Aviation Gasoline Distribution Stage I 2501080050 Documentation.zip	Aviation Gasoline Distribution Stage I 2501080050 Emissions.zip	2008	No
Aviation Gasoline Distribution: Stage II	2501080100	Aviation Gasoline: Stage II	Aviation Gasoline Distribution Stage II 2501080100 Documentation.zip	Aviation Gasoline Distribution Stage II 2501080100 Emissions.zip	2008	No
Commercial Cooking	2302002nnn 2302003nnn	Commercial Cooking	Commercial Cooking 2302002nnn Documentation.zip	Commercial Cooking 2302002nnn Emissions.zip	2008	No
Construction Dust	2311010000	Residential Construction	Residential Construction 2311010000 Documentation.zip	Residential Construction 2311010000 Emissions.zip	2008	Yes
	2311020000	Non-Residential Construction	Non-Residential Construction 2311020000 Documentation.zip	Non-Residential Construction 2311020000 Emissions.zip	2008	Yes
	2311030000	Road Construction	Road Construction 2311030000 Documentation.zip	Road Construction 2311030000 Emissions.zip	2006	No
Fertilizer Application	28017000nn	Fertilizer Application	Fertilizer Application 28017000nn Documentation.zip	Fertilizer Application 28017000nn Emissions.zip	2007	No
Gasoline Distribution	25010110nn 25010120nn	Portable Fuel Containers	Portable Fuel Containers 25010110nn 25010120nn Documentation.zip	Portable Fuel Containers 25010110nn 25010120nn Emissions.zip	2008	No
	2501050120	Gasoline Distribution Stage I; Bulk Terminals	Gasoline Distribution Stage I Documentation.zip	Gasoline Distribution Stage I Bulk Terminals 2501050120 Emissions.zip	2008	Yes
	2501055120	Gasoline Distribution Stage I; Bulk Plants	Gasoline Distribution Stage I Documentation.zip	Gasoline Distribution Stage I Bulk Plants 2501055120 Emissions.zip	2008	Yes
	250106005n	Gasoline Distribution Stage I; Gasoline Service Station Unloading	Gasoline Distribution Stage I Documentation.zip	Gasoline Distribution Stage I Service Station Unloading 250106005n Emissions.zip	2008	Yes
	2501060100	Gasoline Distribution Stage II; Gasoline Service Stations	Gasoline Distribution Stage II Documentation.zip	Gasoline Distribution Stage II Gasoline Service Stations 2501060100 Emissions.zip	2008	Yes
	2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	Gasoline Distribution Stage I Documentation.zip	Gasoline Distribution Stage I UST Breathing and Emptying 2501060201 CAP Emissions.zip	2008	Yes
	2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	Gasoline Distribution Stage I Documentation.zip	Gasoline Distribution Stage I Tank Trucks in Transit 2505030120 Emissions.zip	2008	Yes

Source Category	Source Classification Code(s)	Source Classification Code Description	Link to Emission Calculation Documentation	Link to Emission Calculation Workbook	Year of Activity Data	Point Source Component
	2505040120	Gasoline Distribution Stage I; Pipelines	Gasoline Distribution Stage I Documentation.n.zip	Gasoline Distribution Stage I Pipelines 2505040120_CAP Emissions.zip	2008	Yes
Open Burning	2610000100	Open Burning - Yard Waste - Leaves	Open Burning Yard Waste Leaf 2610000100 and Brush 2610000400 Documentation.zip	Open Burning Yard Waste Leaf 261000100 Emissions.zip	2008	No
	2610000400	Open Burning - Yard Waste - Brush	Open Burning Yard Waste Leaf 2610000100 and Brush 2610000400 Documentation.zip	Open Burning Yard Waste Brush 261000400 Emissions.zip	2008	No
	2610000500	Open Burning - Land Clearing Debris	Open Burning Land Clearing Debris 2610000500 Documentation.zip	Open Burning Land Clearing Debris 2610000500 Emissions.zip	Multiple Years	No
	2610030000	Open Burning - Household Waste	Open Burning MSW 2610030000 Documentation.zip	Open Burning MSW 2610030000 Emissions.zip	2008	No
Paved and Unpaved Roads	2294000000	Paved Road Dust	Paved Roads 2294000000 Documentation.zip	Paved Roads 2294000000 Emissions.zip	2007	No
	2296000000	Unpaved Road Dust	Unpaved Roads 2296000000 Documentation.zip	Unpaved Roads 2296000000 Emissions.zip	2007	No
Publicly Owned Treatment Works (POTW)	2630020000	Publicly Owned Treatment Works (POTW)	Publicly Owned Treatment Works 2630020000 Documentation.zip	Publicly Owned Treatment Works 630020000 Emissions.zip	2008	Yes
Residential Heating	2104001000	Residential Anthracite Coal	Residential Coal 2104001000 2104002000 Documentation.zip	Residential Coal 2104001000 2104002000 Emissions.zip	2006	No
	2104002000	Residential Bituminous Coal	Residential Coal 2104001000 2104002000 Documentation.zip	Residential Coal 2104001000 2104002000 Emissions.zip	2006	No
	2104004000	Residential Distillate Oil	Residential Distillate Fuel 2104004000 Documentation.zip	Residential Distillate Fuel 2104004000 Emissions.zip	2006	No
	2104006000	Residential Natural Gas	Residential Natural Gas 2104006000 Documentation.zip	Residential Natural Gas 2104006000 Emissions.zip	2006	No
	2104007000	Residential LPG	Residential LPG 2104007000 Documentation.n.zip	Residential LPG 2104007000 Emissions.zip	2006	No
	2104008nnn 2104009000	Residential Wood Combustion and Wax Firelogs	Residential Wood Combustion Documentation.zip	RWC 2008 Toolv4.1 Feb09 2010.zip	Inputs represent various years	No
	2104011000	Residential Kerosene	Residential Kerosene 2104011000 Documentation.zip	Residential Kerosene 2104011000 Emissions.zip	2006	No
Solvent Usage - Surface Coatings	2401001000	Architectural Coatings	Solvent Utilization Documentation.zip	Surface Coating Architectural Coating 2401001000 Emissions.zip	2008	No
	2401005000	Automobile Refinishing	Solvent Utilization Documentation.zip	Surface Coating Automobile Refinishing 2401005000 Emissions.zip	2006	Yes
	2401008000	Traffic Paints	Solvent Utilization Documentation.zip	Surface Coating Traffic Painting 2401008000 Emissions.zip	2007	No
	2401015000	Factory Finished Wood	Solvent Utilization Documentation.zip	Surface Coating Factory Finished Wood 2401015000 Emissions.zip	2006	Yes

Source Category	Source Classification Code(s)	Source Classification Code Description	Link to Emission Calculation Documentation	Link to Emission Calculation Workbook	Year of Activity Data	Point Source Component
	2401020000	Wood Furniture and Fixtures	Solvent Utilization Documentation.zip	Surface Coating Wood Furniture and Fixtures 401020000 Emissions.zip	2006	Yes
	2401025000	Metal Furniture	Solvent Utilization Documentation.zip	Surface Coating Metal Furniture 2401025000 Emissions.zip	2006	Yes
	2401030000	Paper, Film and Foil	Solvent Utilization Documentation.zip	Surface Coating Paper Film and Foil 2401030000 Emissions.zip	2006	Yes
	2401040000	Metal Cans	Solvent Utilization Documentation.zip	Surface Coating Metal Can Coating 2401040000 Emissions.zip	2006	Yes
	2401045000	Metal Sheet, Strip and Coils	Solvent Utilization Documentation.zip	Surface Coating Metal Sheet Strip Coil 2401045000 Emissions.zip	2006	Yes
	2401055000	Machinery and Equipment	Solvent Utilization Documentation.zip	Surface Coating Machinery and Equipment 2401055000 Emissions.zip	2006	Yes
	2401060000	Appliances	Solvent Utilization Documentation.zip	Surface Coating Appliances 2401060000 Emissions.zip	2006	Yes
	2401065000	Electronic and Other Electrical Coatings	Solvent Utilization Documentation.zip	Surface Coating Electronic and Other Electrical Coatings 2401065000 Emissions.zip	2006	Yes
	2401070000	Motor Vehicles	Solvent Utilization Documentation.zip	Surface Coating Motor Vehicles 2401070000 Emissions.zip	2006	Yes
	2401075000	Aircraft	Solvent Utilization Documentation.zip	Surface Coating Aircraft 2401075000 Emissions.zip	2006	Yes
	2401080000	Marine coatings	Solvent Utilization Documentation.zip	Surface Coating Marine Coatings 2401080000 Emissions.zip	2006	Yes
	2401085000	Railroads	Solvent Utilization Documentation.zip	Surface Coating Railroad 2401085000 Emissions.zip	2006	No
	2401090000	Misc. Manufacturing	Solvent Utilization Documentation.zip	Surface Coating Misc Manufacturing 2401090000 Emissions.zip	2006	Yes
	2401100000	Industrial Maintenance Coatings	Solvent Utilization Documentation.zip	Surface Coating Industrial Maintenance Coating 2401100000 Emissions.zip	2008	No
	2401200000	Other Special Purpose Coatings	Solvent Utilization Documentation.zip	Surface Coating Other Special Purpose Coating 2401200000 Emissions.zip	2008	No
Solvent Usage - Other	2415000000	Cleaning Products: Industrial and Institutional	Solvent Utilization Documentation.zip	Cleaning Products Industrial and Institutional 2415000000 Emissions.zip	2006	Yes
	2420000000	Dry Cleaning	Solvent Utilization Documentation.zip	Dry Cleaning 2420000000 Emissions.zip	2006	No
	2425000000	Graphic Arts	Solvent Utilization Documentation.zip	Graphic Arts 2425000000 Emissions.zip	2006	Yes
	2460100000	Consumer & Commercial - Personal Care Products (Cosmetics and Toiletries)	Solvent Utilization Documentation.zip	Consumer Solvents- Personal Care Products (Cosmetics and Toiletries) 2460100000 Emissions.zip	2008	No
	2460200000	Consumer & Commercial - Household Cleaning Products	Solvent Utilization Documentation.zip	Consumer Solvents- Household Cleaning Products 2460200000 Emissions.zip	2008	No

Source Category	Source Classification Code(s)	Source Classification Code Description	Link to Emission Calculation Documentation	Link to Emission Calculation Workbook	Year of Activity Data	Point Source Component
	2460400000	Consumer & Commercial - Automotive Aftermarket	Solvent Utilization Documentation.zip	Consumer SolventsAutomotive Aftermarket 2460400000 Emissions.zip	2008	No
	2460500000	Consumer & Commercial - Coatings and Related Products	Solvent Utilization Documentation.zip	Consumer SolventsCoatings and Related Products 2460500000 Emissions.zip	2008	No
	2460600000	Consumer & Commercial - Adhesives and Sealants	Solvent Utilization Documentation.zip	Consumer Solvents- Adhesives and Sealants 2460600000 Emissions.zip	2008	No
	2460800000	Consumer & Commercial - FIFRA Regulated Products	Solvent Utilization Documentation.zip	Consumer Solvents FIFRA Regulated Products 2460800000 Emissions	2008	No
	2460900000	Consumer & Commercial - Misc. Products	Solvent Utilization Documentation.zip	Consumer Solvents- Misc Products 2460900000 Emissions.zip	2008	No

a. Adjustment of NEI Data to Reflect 2007 Activity Levels

Where the 2008 nonpoint source NEI reflects 2007 activity data, Pechan incorporated the 2008 NEI emission estimates into the Pechan default inventory for this project. When a source category's NEI data reflect 2006 or 2008 emissions activity data, Pechan updated the NEI estimates to reflect 2007 emission activity levels. Table 3.2-2 documents the specific revisions that were implemented.

For many area source categories, emissions activity data are not available at the county-level. In these cases, county-level emissions are estimated using two sets of activity data: one set reflecting state or regional-level emissions activity (e.g., volume of natural gas consumed by the residential sector in each state), and the other set representing data that are used to allocate emissions activity to the county-level (e.g., number of houses using natural gas as the primary heating fuel in each county). Specifically, the "Backcasting or Forecasting Methodology" column in Table 3.2-2 presents the approach used to update emissions activity data to represent 2007, and the "County Allocation Method" column identifies the approach used to update the county allocation data. As noted in Table 3.2-2, all county allocation data were not updated to 2007. This approach was taken because of the level-of-effort that would be involved in updating some of the allocation data, and the fact that these data are often not expected to differ significantly from year-to-year.

b. Adjustment of NEI Data to Remove Activity Reflected in the Point Source Inventory

To prevent double-counting of emissions in the stationary point source and area source emissions inventories, it was necessary to perform point source subtractions on some of the source categories in the Pechan default inventory. To facilitate the point source subtractions, Pechan prepared crosswalks that link area SCCs to point SCCs. These crosswalks are presented in Section 3.6. The general point source subtraction approach consisted of the following steps:

1. Compile 2007 point source emissions and control efficiency data provided by each state for the applicable point SCCs.
2. Identify potential quality assurance issues for S/L agency review.
3. Revise control efficiency data to incorporate S/L agency comments.
4. Back-calculate 2007 uncontrolled point source emissions from reported emissions and control efficiency data -- e.g., 40 tons per year (tpy) of controlled NO_x emissions and 80 percent control efficiency = 50 tpy of uncontrolled NO_x emissions.
5. Sum the emissions for each record from step 4 to the state-level to yield state total uncontrolled point source emissions by pollutant.
6. For each pollutant and state, compute the fraction of total 2007 state-level emissions in the 2007 Pechan default inventory represented by area sources (using step 5 total point source uncontrolled emissions).
7. Multiply the emission estimates in the draft base year inventory by the appropriate percentages in step 6 to yield area source emissions.

Table 3.2-2 Methods for Updating 2008 NEI Estimates that Are Not Based on 2007 Emissions Activity

Source Category	Source Classification Code(s)	Source Classification Code Description	Year of Activity Data	Backcasting or Forecasting Methodology	Is Update Actual Activity Data?	Geographic Resolution of Backcast/ Forecast Data	County Allocation Method	Point Source Component
Asphalt Paving	2461021000	Cutback Asphalt	2008	Recalculated using 2007 asphalt usage	Yes	State	Allocated using 2007 county VMT	No
	2461022000	Emulsified Asphalt	2008	Recalculated using 2007 asphalt usage	Yes	State	Allocated using 2007 county VMT	No
Aviation Gasoline Distribution: Stage I	2501080050	Aviation Gasoline: Stage I	2008	Recalculated using 2007 AvGas consumption	Yes	National	Allocated to district-level according to AvGas consumption reported for each Petroleum Administration District and then to county-level using 2008 LTO data for general aviation flights	No
Aviation Gasoline Distribution: Stage II	2501080100	Aviation Gasoline: Stage II	2008	Recalculated using 2007 AvGas consumption	Yes	National	Allocated to district-level according to AvGas consumption reported for each Petroleum Administration District and then to county-level using 2008 LTO data for general aviation flights	No
Commercial Cooking	2302002nnn 2302003nnn	Commercial Cooking	2008	Recalculated using 2007 population estimates	Yes	County		No
Construction Dust	2311010000	Residential Construction	2008	Recalculated surface soil estimate using new privately owned housing units started in 2007 (all other activity data reflects 2007)	Yes	Regional	Allocated to county using 2007 annual housing units	Yes
	2311020000	Non-Residential Construction	2008	Recalculated using 2007 value of construction put in place	Yes	National	Did not revise the county allocation (based on 2006 non-residential construction employment)	Yes
	2311030000	Road Construction	2006	Recalculated using 2007 FHWA capital outlays	Yes	State	NEI county allocation data (number of building starts) are 2007	No
Gasoline Distribution	25010110nn 25010120nn	Portable Fuel Containers	2008	Estimated 2007 using a linear fit between 2002 and 2010 emissions	N/A	County	This is the same procedure used to estimate 2008 estimates for NEI	No
	2501050120	Gasoline Distribution Stage I; Bulk Terminals	2008	Recalculated using 2007 national volume of wholesale gasoline supplied	Yes	National	Allocated to state-level using 2007 refinery, bulk terminal, and natural gas plant stocks of motor gasoline and then to county-level using 2007 County Business Patterns for NAICS code 42471	Yes
	2501055120	Gasoline Distribution Stage I; Bulk Plants	2008	Recalculated using EIA's estimate of 2007 finished motor gasoline supplied	No	National	Allocated to county-level using 2007 County Business Patterns for NAICS code 42471	Yes
	250106005n	Gasoline Distribution Stage I; Gasoline Service Station Unloading	2008	Applied county-level CO2 emissions ratio: CO2 emissions from 2007 NMIM run : CO2 emissions from 2008 NMIM run	No	County		Yes
	2501060100	Gasoline Distribution Stage II;	2008	Applied county-level CO2	No	County		Yes

Source Category	Source Classification Code(s)	Source Classification Code Description	Year of Activity Data	Backcasting or Forecasting Methodology	Is Update Actual Activity Data?	Geographic Resolution of Backcast/ Forecast Data	County Allocation Method	Point Source Component
		Gasoline Service Stations		emissions ratio: CO2 emissions from 2007 NMIM run : CO2 emissions from 2008 NMIM run				
	2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	2008	Applied county-level CO2 emissions ratio: CO2 emissions from 2007 NMIM run : CO2 emissions from 2008 NMIM run	No	County		Yes
	2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	2008	Applied county-level CO2 emissions ratio: CO2 emissions from 2007 NMIM run : CO2 emissions from 2008 NMIM run	No	County		Yes
	2505040120	Gasoline Distribution Stage 1; Pipelines	2008	Recalculated using 2007 national volume of wholesale gasoline supplied	Yes	National	Allocated to PAD-level using 2007 finished motor gasoline moved by pipeline in each PAD in 2007 and then to county-level using 2007 County Business Patterns for NAICS code 42471	Yes
Open Burning	2610000100	Open Burning - Yard Waste - Leaves	2008	Recalculated using 2007 population estimate	Yes	County		No
	2610000400	Open Burning - Yard Waste - Brush	2008	Recalculated using 2007 population estimate	Yes	County		No
	2610000500	Open Burning - Land Clearing Debris	multiple years	Recalculated number of acres disturbed to reflect 2007 residential, non-residential and road construction activity estimates as described above	Yes	County	See methodologies in the Construction Dust categories above	No
	2610030000	Open Burning - Household Waste	2008	Recalculated using 2007 population estimate	Yes	County		No
Publicly Owned Treatment Works (POTW)	2630020000	Publicly Owned Treatment Works (POTW)	2008	Estimated 2007 using a linear fit between 2004 and 2010 POTW flow rates. Allocate to county-level using 2007 population.	Yes	National	This is the same procedure used to estimate 2008 estimates for NEI. Allocated to county-level using 2007 population estimate.	Yes
Residential Heating	2104001000	Residential Anthracite Coal	2006	Recalculated using 2007 coal consumption data and 2007 ratio of anthracite to bituminous coal consumption	Yes	State	County allocation based on 2000 Census data	No
	2104002000	Residential Bituminous Coal	2006	Recalculated using 2007 coal consumption data and 2007 ratio of anthracite to bituminous coal consumption	Yes	State	County allocation based on 2000 Census data	No
	2104004000	Residential Distillate Oil	2006	Recalculated using 2007 distillate oil consumption	Yes	State	County allocation based on 2000 Census data	No
	2104006000	Residential Natural Gas	2006	Recalculated using 2007 natural gas consumption	Yes	State	County allocation based on 2000 Census data	No

Source Category	Source Classification Code(s)	Source Classification Code Description	Year of Activity Data	Backcasting or Forecasting Methodology	Is Update Actual Activity Data?	Geographic Resolution of Backcast/ Forecast Data	County Allocation Method	Point Source Component
	2104007000	Residential LPG	2006	Recalculated using 2007 LPG consumption	Yes	State	County allocation based on 2000 Census data	No
	2104008nnn 2104009000	Residential Wood Combustion and Wax Firelogs	Inputs represent various years	Applied 2007/2008 county-level ratio of occupied housing units	Yes	County		No
	2104011000	Residential Kerosene	2006	Recalculated using 2007 kerosene consumption	Yes	State	County allocation based on 2000 Census data	No
Solvent Usage - Surface Coatings	2401001000	Architectural Coatings	2008	Recalculated using 2007 population estimate	Yes	County		No
	2401005000	Automobile Refinishing	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401015000	Factory Finished Wood	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401020000	Wood Furniture and Fixtures	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401025000	Metal Furniture	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401030000	Paper, Film and Foil	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401040000	Metal Cans	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401045000	Metal Sheet, Strip and Coils	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401055000	Machinery and Equipment	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401060000	Appliances	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401065000	Electronic and Other Electrical Coatings	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401070000	Motor Vehicles	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401075000	Aircraft	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401080000	Marine coatings	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2401085000	Railroads	2006	Recalculated using 2007 employment data	Yes	County		No
	2401090000	Misc. Manufacturing	2006	Recalculated using 2007 employment data	Yes	County		Yes
2401100000	Industrial Maintenance Coatings	2008	Recalculated using 2007 population estimate	Yes	County		No	
2401200000	Other Special Purpose Coatings	2008	Recalculated using 2007 population estimate	Yes	County		No	

Source Category	Source Classification Code(s)	Source Classification Code Description	Year of Activity Data	Backcasting or Forecasting Methodology	Is Update Actual Activity Data?	Geographic Resolution of Backcast/ Forecast Data	County Allocation Method	Point Source Component
Solvent Usage - Other	2415000000	Cleaning Products: Industrial and Institutional	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2420000000	Dry Cleaning	2006	Recalculated using 2007 employment data	Yes	County		No
	2425000000	Graphic Arts	2006	Recalculated using 2007 employment data	Yes	County		Yes
	2460100000	Consumer & Commercial - Personal Care Products (Cosmetics and Toiletries)	2008	Recalculated using 2007 population estimate	Yes	County		No
	2460200000	Consumer & Commercial - Household Cleaning Products	2008	Recalculated using 2007 population estimate	Yes	County		No
	2460400000	Consumer & Commercial - Automotive Aftermarket	2008	Recalculated using 2007 population estimate	Yes	County		No
	2460500000	Consumer & Commercial - Coatings and Related Products	2008	Recalculated using 2007 population estimate	Yes	County		No
	2460600000	Consumer & Commercial - Adhesives and Sealants	2008	Recalculated using 2007 population estimate	Yes	County		No
	2460800000	Consumer & Commercial - FIFRA Regulated Products	2008	Recalculated using 2007 population estimate	Yes	County		No
	2460900000	Consumer & Commercial - Misc. Products	2008	Recalculated using 2007 population estimate	Yes	County		No

Pechan performed the point source subtractions at the state- rather than county-level because of the uncertainty associated with the NEI county emission allocations in that actual county-level emissions activity data are generally not available (i.e., a surrogate indicator such as employment is typically used to allocate state-level activity to counties efforts to perform subtractions at the county-level commonly result in negative emission estimates.). For detailed discussions in allocating the state level emissions to the county level (specifically York County, in this case), see subsection “*e. County Allocation Data*” later in this section.

Because of the inconsistent reporting of throughput data in the SEMAP point source inventory, throughput data were used in the point source subtraction procedure in only a limited number of cases. These cases are listed below in Table 3.2-3. For these areas/SCCs, all pollutants’ total emissions are adjusted by the same percentage. For a few area source categories, it was necessary to incorporate source category-specific point source subtraction procedures. Section 3.6 summarizes the specific point source subtraction approaches for these source categories.

Table 3.2-3 Throughput-Based Area Source Emission Adjustments

Area	SCC	Area Source %
South Carolina	2102002000	25.35
	2102004000	0.00
	2102005000	0.00
	2102006000	32.95
	2102007000	0.00
	2102007000	99.84
	2102008000	43.40
	2103001000	0.00
	2103004000	93.14
	2103006000	94.10
	2103008000	49.36
	2401015000	94.40

2. Estimation of Area Source Emissions from Industrial and Commercial/Institutional Fuel Combustion

Currently, the 2008 NEI data for the ICI fuel combustion categories represent total emission activity estimates, rather than area source emission estimates. Because emission estimates are not available and because of the relative importance of this category, Pechan recommended that 2007 ICI combustion area source emission estimates be developed as part of this project. This section documents the emission inventory development methodology that Pechan used in preparing 2007 year ICI fuel combustion area source emission estimates for the SESARM states. The following are elements of the methodology that provide improvements over the 2008 NEI methodology:

- Obtained Industrial and Commercial/Institutional energy consumption by fuel type and SESARM state for the year 2007 from the Energy Information Administration’s (EIA’s) State Energy Data System (SEDS) – the 2008 NEI uses 2006 year data;
- Obtained geographic- and year-specific estimates of non-fuel use consumption of industrial energy from the 2006 Manufacturing Energy Consumption Survey (MECS) – the 2008 NEI uses data from the 2002 MECS survey;
- Applied a county allocation procedure that reflects the energy-intensity of each industrial sector – the 2008 NEI methods only reflect the number of employees in each sector.

Table 3.2-4 identifies the SCCs for which Pechan prepared ICI fuel combustion area source emission estimates. The key data inputs in the emissions estimation methodology are:

1. Total Industrial and total Commercial/Institutional energy consumption by fuel type and SESARM state for the year 2007;
2. Estimates of the percentage of total ICI distillate fuel and liquefied petroleum gas (LPG) consumption from stationary sources;
3. Industrial energy consumption used for non-fuel purposes by fuel type and state in 2006;
4. ICI energy consumption by fuel type for point sources by SESARM state in year 2007;
5. Emission factors relating emission rates to volume of energy consumed by fuel type for the ICI sectors;
6. Sulfur content of coal consumed in the ICI sectors by state in year 2007;
7. County-level Industrial sector energy consumption estimates by state for year 2007; and,
8. County-level Commercial/Institutional sector employment by state for the year 2006. To conserve project resources, Pechan relied on 2006 employment data compiled in support of the 2008 NEI rather than develop 2007 employment data (note that year-to-year county employment proportions are expected to remain relatively constant).

Table 3.2-4 ICI Fuel Combustion Area Source Classification Codes

SCC	DESCRIPTION
2102001000	Stationary Source Fuel Combustion; Industrial; Anthracite Coal; Total: All Boiler Types
2102002000	Stationary Source Fuel Combustion; Industrial; Bituminous/Subbituminous Coal; Total: All Boiler Types
2102004000	Stationary Source Fuel Combustion; Industrial; Distillate Oil; Total: Boilers and IC Engines
2102005000	Stationary Source Fuel Combustion; Industrial; Residual Oil; Total: All Boiler Types
2102006000	Stationary Source Fuel Combustion; Industrial; Natural Gas; Total: Boilers and IC Engines
2102007000	Stationary Source Fuel Combustion; Industrial; Liquid Petroleum Gas; Total: All Boiler Types
2102008000	Stationary Source Fuel Combustion; Industrial; Wood; Total: All Boiler Types
2102011000	Stationary Source Fuel Combustion; Industrial; Kerosene; Total: All Boiler Types
2103001000	Stationary Source Fuel Combustion; Commercial/Institutional; Anthracite Coal; Total: All Boiler Types
2103002000	Stationary Source Fuel Combustion; Commercial/Institutional; Bituminous/Subbituminous Coal; Total: All Boiler Types
2103004000	Stationary Source Fuel Combustion; Commercial/Institutional; Distillate Oil; Total: Boilers and IC Engines

SCC	DESCRIPTION
2103005000	Stationary Source Fuel Combustion; Commercial/Institutional; Residual Oil; Total: All Boiler Types
2103006000	Stationary Source Fuel Combustion; Commercial/Institutional; Natural Gas; Total: Boilers and IC Engines
2103007000	Stationary Source Fuel Combustion; Commercial/Institutional; Liquid Petroleum Gas; Total: All Combustor Types
2103008000	Stationary Source Fuel Combustion; Commercial/Institutional; Wood; Total: All Boiler Types
2103011000	Stationary Source Fuel Combustion; Commercial/Institutional; Kerosene; Total: All Combustor Types

The following sections describe the methodology/data source(s) for developing each of these data inputs, and the source(s) of information for each of these data elements. In selecting the information sources for each of these data elements, Pechan evaluated the completeness, representativeness, comparability, and accuracy criteria identified in the Quality Assurance Project Plan (QAPP) for this project. For example, information sources that provide data specific to the source category/geography/inventory period were selected over those that were less specific.

a. Total ICI Energy Consumption

For total Industrial and total Commercial/Institutional energy consumption by fuel type/state, Pechan primarily used the same source that EPA uses in developing ICI combustion emission estimates for the NEI–EIA’s SEDS (EIA, 2009a). The SEDS provides total energy consumption estimates by sector, state, fuel type, and year. To facilitate use with the criteria pollutant emission factors, Pechan compiled the SEDS energy consumption data in both sets of units provided by the EIA: physical units and British thermal units (Btus). For estimates of industrial distillate consumption, Pechan relied on estimates reported in EIA’s “Fuel Oil and Kerosene Sales” (EIA, 2009b). This source is preferred over the SEDS data because it provides additional sectoral detail that is needed to perform the stationary source energy consumption adjustments described below.

b. Stationary Source Energy Consumption

To avoid double-counting with energy consumption accounted for in mobile source inventories, it was necessary to adjust 2007 year SEDS distillate and LPG consumption estimates for mobile source fuel consumption. For LPG, the adjustments account for energy consumption reflected in the nonroad mobile sector. The adjustments were performed by subtracting estimated proportions of total Industrial sector and Commercial sector consumption computed from a national NONROAD model run. Pechan compiled national LPG consumption estimates for relevant SCCs from a 2006 run of EPA’s NONROAD model (a 2006 run was performed in support of the NEI—it is not anticipated that the percentages differ considerably between 2006 and 2007). Table 3.2.-5 identifies a complete list of nonroad SCCs associated with Industrial and Commercial sector LPG. The shaded entries in this table indicate where NONROAD reports LPG consumption. This procedure estimates that nonroad mobile sources account for 9 percent of Industrial sector, and 18 percent of Commercial sector LPG consumption. The SEDS LPG consumption estimates for each state/sector were adjusted downward using these percentages.

For distillate oil, it was necessary to remove energy consumption reflected in onroad/nonroad

mobile source emission inventories. To facilitate this step, Pechan used more detailed distillate fuel consumption estimates reported in EIA's "Fuel Oil and Kerosene Sales," and stationary source fuel consumption percentage assumptions used in the regulatory impact analysis for EPA's nonroad diesel emissions rulemaking (EPA, 2003a). Table 3.2-6 displays the assumptions that were applied to the state-level Industrial sector distillate fuel consumption estimates reported in "Fuel Oil and Kerosene Sales" to estimate Industrial sector stationary source consumption. Table 3.2-7 identifies the assumptions that were applied to estimate total stationary source Commercial/Institutional sector consumption.

Table 3.2-5 LPG Nonroad Mobile Source Classification Codes

SCC	Description_2	Description_3	Description_4
<i>Industrial Sector</i>			
2267002000	LPG	Construction and Mining Equipment	All
2267002003	LPG	Construction and Mining Equipment	Pavers
2267002006	LPG	Construction and Mining Equipment	Tampers/Rammers
2267002009	LPG	Construction and Mining Equipment	Plate Compactors
2267002015	LPG	Construction and Mining Equipment	Rollers
2267002018	LPG	Construction and Mining Equipment	Scrapers
2267002021	LPG	Construction and Mining Equipment	Paving Equipment
2267002024	LPG	Construction and Mining Equipment	Surfacing Equipment
2267002027	LPG	Construction and Mining Equipment	Signal Boards/Light Plants
2267002030	LPG	Construction and Mining Equipment	Trenchers
2267002033	LPG	Construction and Mining Equipment	Bore/Drill Rigs
2267002036	LPG	Construction and Mining Equipment	Excavators
2267002039	LPG	Construction and Mining Equipment	Concrete/Industrial Saws
2267002042	LPG	Construction and Mining Equipment	Cement and Mortar Mixers
2267002045	LPG	Construction and Mining Equipment	Cranes
2267002048	LPG	Construction and Mining Equipment	Graders
2267002051	LPG	Construction and Mining Equipment	Off-highway Trucks
2267002054	LPG	Construction and Mining Equipment	Crushing/Processing Equipment
2267002057	LPG	Construction and Mining Equipment	Rough Terrain Forklifts
2267002060	LPG	Construction and Mining Equipment	Rubber Tire Loaders
2267002063	LPG	Construction and Mining Equipment	Rubber Tire Tractors/Dozers
2267002066	LPG	Construction and Mining Equipment	Tractors/Loaders/Backhoes
2267002069	LPG	Construction and Mining Equipment	Crawler Tractor/Dozers
2267002072	LPG	Construction and Mining Equipment	Skid Steer Loaders
2267002075	LPG	Construction and Mining Equipment	Off-Highway Tractors
2267002078	LPG	Construction and Mining Equipment	Dumpers/Tenders
2267002081	LPG	Construction and Mining Equipment	Other Construction Equipment
2267003000	LPG	Industrial Equipment	All
2267003010	LPG	Industrial Equipment	Aerial Lifts
2267003020	LPG	Industrial Equipment	Forklifts
2267003030	LPG	Industrial Equipment	Sweepers/Scrubbers
2267003040	LPG	Industrial Equipment	Other General Industrial Equipment
2267003050	LPG	Industrial Equipment	Other Material Handling Equipment

SCC	Description_2	Description_3	Description_4
2267003060	LPG	Industrial Equipment	AC\Refrigeration
2267003070	LPG	Industrial Equipment	Terminal Tractors
2267005000	LPG	Agricultural Equipment	All
2267005010	LPG	Agricultural Equipment	2-Wheel Tractors
2267005015	LPG	Agricultural Equipment	Agricultural Tractors
2267005020	LPG	Agricultural Equipment	Combines
2267005025	LPG	Agricultural Equipment	Balers
2267005030	LPG	Agricultural Equipment	Agricultural Mowers
2267005035	LPG	Agricultural Equipment	Sprayers
2267005040	LPG	Agricultural Equipment	Tillers >6 HP
2267005045	LPG	Agricultural Equipment	Swathers
2267005050	LPG	Agricultural Equipment	Hydro-power Units
2267005055	LPG	Agricultural Equipment	Other Agricultural Equipment
2267005060	LPG	Agricultural Equipment	Irrigation Sets
2267007000	LPG	Logging Equipment	All
2267007005	LPG	Logging Equipment	Chain Saws > 6 HP
2267007010	LPG	Logging Equipment	Shredders > 6 HP
2267007015	LPG	Logging Equipment	Forest Eqp – Feller/Bunch/Skidder
2267009000	LPG	Underground Mining Equipment	All
2267009010	LPG	Underground Mining Equipment	Other Underground Mining Equipment
2267010000	LPG	Industrial Equipment	All
2267010010	LPG	Industrial Equipment	Other Oil Field Equipment
Commercial Sector			
2267004011	LPG	Lawn and Garden Equipment	Lawn Mowers (Commercial)
2267004016	LPG	Lawn and Garden Equipment	Rotary Tillers < 6 HP (Commercial)
2267004021	LPG	Lawn and Garden Equipment	Chain Saws < 6 HP (Commercial)
2267004026	LPG	Lawn and Garden Equipment	Trimmers/Edgers/Brush Cutters (Commercial)
2267004031	LPG	Lawn and Garden Equipment	Leafblowers/Vacuums (Commercial)
2267004036	LPG	Lawn and Garden Equipment	Snowblowers (Commercial)
2267004041	LPG	Lawn and Garden Equipment	Rear Engine Riding Mowers (Commercial)
2267004046	LPG	Lawn and Garden Equipment	Front Mowers (Commercial)
2267004051	LPG	Lawn and Garden Equipment	Shredders < 6 HP (Commercial)
2267004056	LPG	Lawn and Garden Equipment	Lawn and Garden Tractors (Commercial)
2267004061	LPG	Lawn and Garden Equipment	Wood Splitters (Commercial)
2267004066	LPG	Lawn and Garden Equipment	Chippers/Stump Grinders (Commercial)
2267004071	LPG	Lawn and Garden Equipment	Turf Equipment (Commercial)

SCC	Description_2	Description_3	Description_4
2267004076	LPG	Lawn and Garden Equipment	Other Lawn and Garden Equipment (Commercial)
2267006000	LPG	Commercial Equipment	All
2267006005	LPG	Commercial Equipment	Generator Sets
2267006010	LPG	Commercial Equipment	Pumps
2267006015	LPG	Commercial Equipment	Air Compressors
2267006020	LPG	Commercial Equipment	Gas Compressors
2267006025	LPG	Commercial Equipment	Welders
2267006030	LPG	Commercial Equipment	Pressure Washers
2267006035	LPG	Commercial Equipment	Hydro-power Units
2267008000	LPG	Airport Ground Support Equipment	All
2267008005	LPG	Airport Ground Support Equipment	Airport Ground Support Equipment

Note: EPA's NONROAD model reports emissions/fuel consumption for the shaded entries.

Table 3.2-6 Assumptions Used to Estimate Industrial Sector Stationary Source Distillate Fuel Consumption

Sector	Distillate Fuel Type	% of Total Consumption from Stationary Sources
Industrial	No. 1 Distillate Fuel Oil	60
	No. 2 Distillate Fuel Oil	100
	No. 2 Distillate/Low and High Sulfur Diesel	15 ^a
	No. 4 Distillate Fuel Oil	100
Farm	Diesel	0
	Other Distillate Fuel Oil	100
Off-Highway (Construction and Other)	Distillate Fuel Oil	5
Oil Company	Distillate Fuel Oil	50

^a This value differs from the 0% assumption adopted in EPA's nonroad diesel emissions rulemaking because it is known that some diesel fuel is used by stationary sources (a 15 percent value was selected for use as an approximate mid-point of a potential range of 8 to 24% stationary source use computed from a review of national data from the EIA's *Manufacturing Energy Consumption Survey* and "Fuel Oil and Kerosene Sales").

Table 3.2-7 Assumptions Used to Estimate Commercial/Institutional Sector Stationary Source Distillate Fuel Consumption

Sector	Distillate Fuel Type	% of Total Consumption from Stationary Sources
Commercial	No. 1 Distillate Fuel Oil	80
	No. 2 Distillate Fuel Oil	100
	No. 2 Distillate/Ultra-Low, Low, and High Sulfur Diesel	0 ^a
	No. 4 Distillate Fuel Oil	100

^a A very small portion of total commercial/institutional diesel is actually consumed by point sources (SCC 203001xx).

c. Non-Fuel Energy Consumption

Some Industrial sector energy is consumed for non-fuel purposes. For example, natural gas is used as a feedstock in chemical manufacturing plants and to make nitrogenous fertilizer, and LPG is used to create intermediate products that are made into plastics. To estimate the volume of fuel that is associated with ICI combustion, it is necessary to subtract the volume of fuel consumption for non-energy uses from the volume of total fuel consumption. The EPA's State Inventory Tool (SIT) provides national defaults representing the percentage of total Industrial fuel consumption from non-energy uses. These default values have an additional limitation beyond their lack of geographic detail - they represent the EIA's definition of the Industrial sector, which includes fuel use that is accounted for in other inventory source categories (e.g., Farm, Mining, Construction, and Commercial sectors fuel use that is accounted for in the

nonroad inventory). Because of these limitations, Pechan used regional non-fuel use percentages computed from energy consumption data from the EIA's 2006 *Manufacturing Energy Consumption Survey* (MECS) for all fuel types (EIA, 2009c).

There are two reasons why MECS provides a more representative data set for use in this project: (1) MECS provides data specific to the region of interest; and (2) MECS focuses solely on the Manufacturing sector. The latter characteristic is particularly important for fuel types which consume significant amounts of non-Manufacturing sector energy that is already included elsewhere (e.g., distillate fuel used by the Construction sector, which is included in the nonroad inventory). Pechan estimated the percent energy consumption from non-fuel use by subtracting the coal used in the primary metals industrial subsector (NAICS code 331*) from the MECS coal dataset. Table 3.2-8 presents the non-fuel use percentages by type of energy.

Table 3.2-8 Industrial Sector Energy Consumption from Non-Fuel Uses

Energy Type	2006 MECS % Energy Consumption from Non-Fuel Use	
	South ¹	National
Residual	30%	20%
Distillate	12%	12%
Natural Gas	11%	7%
LPG/NGL	99%	97%
Coal (excludes coking coal)	9%	6%

Sources: EIA, 2009c and Lorenz, 2009.

¹ All SESARM states are in the South region.

d. Emission Factors

Table 3.2-9 presents the criteria pollutant emission factors that Pechan used in calculating ICI combustion area source emissions. Except as noted below, all criteria air pollutant emission factors are from an EPA database used to prepare the 2008 nonpoint source NEI (Huntley, 2009), and all criteria pollutant emission factors were rounded to two decimal places. Wood combustion emission factors are from *AP-42* (EPA, 2003b). Because there are no NH₃ emission factors for ICI fuel combustion available in the 2008 NEI emission factor database, *AP-42*, or EPA's WebFIRE, Pechan used emission factors reported in an NH₃ emissions Emission Inventory Improvement Program (EIIP) guidance document (Pechan, 2004).

Table 3.2-9 Criteria Pollutant Emission Factors for ICI Combustion Area Source Categories

SCC	Description	Emission Factor Units ¹	VOC	NO _x	CO	SO ₂	PM2.5-FIL	PM10-FIL	PM-CON	NH ₃
2102001000	Industrial Anthracite Coal	lb/ton	0.3	9	0.6	39 * S%	0.48 * A%	1.1 * A%	0.08	0.03
2102002000	Industrial Bitum/Subbitum Coal	lb/ton	0.05	11	5	38 * S%	1.4	12	1.04	0.03
2102004000	Industrial Distillate Oil	lb/1000 gal	0.2	20	5	142 * S%	0.25	1	1.3	0.8
2102005000	Industrial Residual Oil	lb/1000 gal	0.28	55	5	157 * S%	4.67 * (1.12 * S% + 0.37)	7.17 * (1.12 * S% + 0.37)	1.5	0.8
2102006000	Industrial Natural Gas	lb/MMcf	5.5	100	84	0.6	0.11	0.2	0.32	0.49
2102007000	Industrial LPG ²	lb/1000 bbl	21.9	398	502	2.39	0.438	0.797	1.275	1.95
2102008000	Industrial Wood ³	lb/MMBtu	0.017	0.22	0.6	0.025	0.43	0.5	0.017	0.007 ⁴
2102011000	Industrial Kerosene	lb/1000 gal	0.19	19.29	4.82	142 * S%	0.24	0.96	1.25	0.771
2103001000	Comm/Inst Anthracite Coal	lb/ton	0.3	9	0.6	39 * S%	0.48 * A%	1.1 * A%	0.08 * A%	0.03
2103002000	Comm/Inst Bitum/Subbitum Coal	lb/ton	0.05	11	5	38 * S%	1.4	12	1.04	0.03
2103004000	Comm/Inst Distillate Oil	lb/1000 gal	0.34	20	5	142 * S%	0.83	1.08	1.3	0.8
2103005000	Comm/Inst Residual Oil	lb/1000 gal	1.13	55	5	157 * S%	1.92 * (1.12 * S% + 0.37)	5.17 * (1.12 * S% + 0.37)	1.5	0.8
2103006000	Comm/Inst Natural Gas	lb/MMcf	5.5	100	84	0.6	0.11	0.2	0.32	0.49
2103007000	Comm/Inst LPG	lb/1000 bbl	21.9	398	502	2.39	0.438	0.797	1.275	1.95
2103008000	Comm/Inst Wood ³	lb/MMBtu	0.017	0.22	0.6	0.025	0.43	0.5	0.017	0.005 ⁴
2103011000	Comm/Inst Kerosene	lb/1000 gal	0.33	19.29	4.82	142 * S%	0.8	1.04	1.25	0.771

Source: Unless otherwise noted, 2008 nonpoint source NEI (Huntley, 2009).

Notes: ¹ lb = pound; ton = short ton; gal = gallon; MMcf = million cubic feet; MMBtu = million British thermal units; bbl = barrels; S = sulfur content; A = ash content

² Emission factors from Commercial/Institutional LPG.

³ Emission factors from AP-42, Section 1.6, Wood Residue Combustion in Boilers (EPA, 2003b).

⁴ Emission factor from Pechan, 2004 (converted from lb/ton using 0.08 ton/MMBtu for Industrial sector and 0.0625 ton/MMBtu for Commercial sector).

e. County Allocation Data

After computing state-level area source emissions using the data described above, the next step is to allocate these emissions to individual counties. Separate allocation approaches were implemented for the Industrial and Commercial/Institutional sectors. For Commercial/Institutional sector source categories, the approach relies on county employment data compiled from government sources. For Industrial sector source categories, the approach utilizes county-level Industrial sector energy consumption estimates developed in this effort.

Commercial/Institutional

Because SEDS data originate from EIA fuel sector-specific surveys of energy suppliers, Pechan reviewed these survey forms/instructions for further details on what SEDS considers Commercial sector use of each fuel. Natural gas, for example was from EIA-176 “Annual Report of Natural and Supplemental Gas Supply and Disposition.” This review found that the surveys/guidance do not always provide further clarity. In addition, the EIA has admitted that energy suppliers may use their own account classifications as well as EIA guidance in determining whether a particular account belongs in the Residential, Commercial, Industrial, or Transportation sector. The only source of NAICS-code based EIA definitions of the Commercial energy sector is a “rough crosswalk” between Commercial building types and NAICS codes developed for EIA’s Commercial Building Energy Consumption Survey (CBECS). With the exception of NAICS code 814 (Private Households), this crosswalk links all NAICS codes between 42 and 92 with Commercial building energy consumption. Employment data for the CBECS-identified NAICS codes (42 through 92 with exception of 814) were used to allocate SEDS energy consumption data to individual counties. Pechan used private sector 2006 employment data from *County Business Patterns* (CBP) and public sector 2006 employment data from the *Census of Governments* (Census, 2009a; and Census, 2009b) because these data were already compiled in support of the 2008 NEI (year-to-year changes in county employment proportions are expected to be minimal).

Industrial

Unlike the Commercial sector, documentation provides a clear listing of the NAICS codes associated with SEDS Industrial energy consumption data: “the industrial sector encompasses the following types of activity: Manufacturing (NAICS codes 31–33); Agriculture, Forestry, Fishing and Hunting (NAICS code 11); Mining, including Oil and Gas Extraction (NAICS code 21); and Construction (NAICS code 23).” As noted earlier, a portion of Industrial sector consumption (Agriculture, Mining and Construction) is already accounted for in other emission inventory sectors and was removed. Therefore, Pechan did not expand the list of NAICS codes used to represent the area source Industrial fuel combustion category beyond the Manufacturing sector NAICS codes (31-33).

Employment-based county allocation methods lead to overrepresentation of energy consumption in counties with sectors that have high employment but low energy intensities (measured on a Btu per employee basis), and vice-versa. Given that Manufacturing sectors have much greater energy intensity variability than Commercial/Institutional sectors, Pechan utilized energy use per

employee values by NAICS code to improve upon the employment-based county allocation approach used in the 2008 NEI for the Industrial fuel combustion category. This procedure relied on 2007 national energy consumption data by NAICS code as reported by EIA in *Annual Energy Outlook* (EIA, 2009d). Energy intensity values were computed by dividing these Btu-based energy consumption estimates by NAICS code-level 2007 national employment data. The resulting intensity values were then multiplied by county/NAICS code-level employment estimates from County Business Patterns (CBP) to estimate total county energy consumption by NAICS code. These values were then summed for the appropriate Industrial fuel combustion NAICS codes. The resulting county-level total Industrial energy consumption estimates were used to apportion state-level area source Industrial fuel combustion emissions to each county.

Estimation of Withheld Employment Data

Due to concerns with releasing confidential business information, the CBP withholds values for a given county/NAICS code if it would be possible to identify individual businesses from these values. In such cases, the CBP reports a letter code, representing a particular employment size range. Pechan used the following procedure to estimate data for withheld counties/NAICS codes.

1. County-level employment for counties with reported values are totaled by state for the applicable NAICS code.
2. Value from step 1 is subtracted from the state employment value for the NAICS code.
3. Each of the withheld counties is assigned an initial employment estimate reflecting the midpoint of the CBP range code (e.g., code A, which reflects 1-19 employees, is assigned an estimate of 10 employees).
4. The initial employment estimates from step 3 are then summed to the state level.
5. The value from step 2 is divided by the value from step 4 to yield an adjustment factor to apply to the initial employment estimates to yield employment values that will sum to the state employment total for the applicable NAICS code.
6. The final county-level employment values are estimated by multiplying the initial employment estimates from step 3 by the step 5 adjustment factors.

3.3 INVENTORY SUPPLEMENTATION/FINAL DATA MERGING

As directed by S/L agencies, Pechan supplemented 2007 S/L agency supplied emissions data (when supplied) and Pechan default emissions data with emissions data from the 2002 nonpoint source NEI. To assist agencies that supplied S/L emissions data, Pechan compiled a list of SCC/pollutant combinations in the S/L area's portion of the 2002 nonpoint source NEI that did not match to combinations in either the S/L agency inventory or Pechan's default inventory. This list was documented in an Excel worksheet and transmitted along with a request for agencies to identify whether each combination's emissions should be carried forward or grown to 2007 using EGAS Growth Factors. Pechan contacted agencies with any necessary follow-up questions to clarify guidance on the NEI supplementation procedure.

To assist agencies that did not supply their own emissions data, Pechan compiled a list of

SCC/pollutant combinations in the state's portion of the 2002 nonpoint source NEI that did not match to combinations in Pechan's default inventory. These lists were documented in an Excel workbook, which also contained a worksheet identifying associated inventory supplementation questions (e.g., "the 2002 NEI reports VOC emissions under Dry Cleaning/Perchloroethylene SCCs—Pechan's default inventory does not include VOC emissions for this SCC because perchloroethylene is no longer considered a VOC by EPA. Please confirm that VOC emissions from these SCCs should not be carried forward/grown"). After reviewing state agency responses to these data merging questions, Pechan contacted agencies with follow-up questions as necessary to clarify state guidance.

Table 3.3-1 displays the SCC/pollutant combinations for which 2002 nonpoint source NEI emissions were carried forward or grown to 2007 using growth factors from EGAS. Note that for some SCCs, EGAS did not provide growth factors. In these cases, Pechan used underlying EGAS 5.0 information (i.e., the EGAS Version 5.0 SCC-to-growth indicator crosswalk and economic output data from version 5.5 of the Regional Economic Models, Inc. [REMI] model) to develop growth factors. Further documenting the data merging procedures are NIF EM table records and the SCC/county-level emission summaries that display a data source code for each record. Table 3.3-2 presents the data source codes used to document the source of each area source emission record. The compiled inventory was converted into EPA's NIF 3.0 nonpoint source format.

Table 3.3-1 Summary of Data Carried/Forward Grown From 2002 NEI

Source Classification Code	Source Classification Code Description	South Carolina
2275085000	Aircraft/Unpaved Airstrips/Total	
2275900000	Aircraft/Refueling: All Fuels/All Processes ** (Use 25-01-080-xxx)	
2301030000	Chemical Manufacturing/Process Emissions from Pharmaceutical Manuf/Total	
2301040000	Chemical Manufacturing/Fugitive Emissions from Synthetic Organic Chem Manuf/Total	
2302050000	Food & Kindred Products/Bakery Products/Total	EGAS
2302070005	Food & Kindred Products/Fermentation/Beverages/Wineries	
2302070010	Food & Kindred Products/Fermentation/Beverages/Distilleries	
2305070000	Mineral Processes/Concrete, Gypsum, Plaster Products/Total	
2306000000	Petroleum Refining/All Processes/Total	
2306010000	Petroleum Refining/Asphalt Paving/Roofing Materials/Total	
2307060000	Wood Products/Misc Wood Products/Total	
2308000000	Rubber/Plastics/All Processes/Total	
2309000000	Fabricated Metals/All Processes/Total	
2309100010	Fabricated Metals/Coating, Engraving, and Allied Services/Electroplating	
2309100230	Fabricated Metals/Coating, Engraving, and Allied Services/Alkaline Cleaning	
2310000000	Oil & Gas Expl & Prod/All Processes/Total: All Processes	
2325000000	Mining & Quarrying/All Processes/Total	EGAS
2399000000	Industrial Processes: NEC/Industrial Processes: NEC/Total	
2401001010	Surface Coating/Architectural Coatings/Primers, Sealers, and Undercoaters	
2401001050	Surface Coating/Architectural Coatings/All Other Architectural Categories	
2401005600	Surface Coating/Auto Refinishing/Primers	
2401005700	Surface Coating/Auto Refinishing/Top Coats	
2440000000	Misc Industrial/All Processes/Total: All Solvent Types	
2461800000	Misc Non-industrial: Commercial/Pesticide Applic.: All Processes/Total: All Solvent Types	EGAS
2461850000	Misc Non-indus: Consumer/Pesticide Application: Agricultural/All Processes	

Source Classification Code	Source Classification Code Description	South Carolina
2465800000	Misc Non-indus: Consumer/Pesticide Application/Total: All Solvent Types	
2501000090	Petrol & Petrol Product Storage/All Storage Types: Breathing Loss/Distillate Oil	
2501050090	Petrol & Petrol Product Storage/Bulk Terminals: All Evaporative Losses/Distillate Oil	
2501050150	Petrol & Petrol Product Storage/Bulk Terminals: All Evaporative Losses/Jet Naphtha	
2501050180	Petrol & Petrol Product Storage/Bulk Terminals: All Evaporative Losses/Kerosene	
2501070000	Diesel Service Stations/Total: All Products/All Processes	
2501070051	Diesel Service Stations/Stage 1: Submerged Filling	
2501070052	Diesel Service Stations/Stage 1: Splash Filling	
2501070101	Diesel Service Stations/Stage 2: Displacement Loss/Uncontrolled	
2501070103	Diesel Service Stations/Stage 2: Spillage	
2501070201	Diesel Service Stations/Underground Tank: Breathing and Emptying	
2510000000	Organic Chemical Storage/All Storage Types: Breathing Loss/Total: All Products	
2530000020	Bulk Materials Storage/All Storage Types/Cement	
2530000100	Bulk Materials Storage/All Storage Types/Limestone	
2530000120	Bulk Materials Storage/All Storage Types/Sand	
2530050000	Bulk Materials Storage/Bulk Stations/Terminals/Total: All Products	
2601000000	On-site Incineration/All Categories/Total	
2601010000	On-site Incineration/Industrial/Total	
2601020000	On-site Incineration/Commercial/Institutional/Total	
2620000000	Landfills/All Categories/Total	
2620030000	Landfills/Municipal/Total	
2630020000	Wastewater Treatment/Public Owned/Total Processed	
2630020001	Wastewater Treatment/Public Owned/Flaring of Gases	
2640000000	TSDFs/All TSDF Types/Total: All Processes	
2660000000	Leaking Underground Storage Tanks/Leaking Underground Storage Tanks/Total: All Storage Types	
2801000000	Agric - Crops/Total	EGAS
2801000003	Agric - Crops/Tilling	EGAS

Source Classification Code	Source Classification Code Description	South Carolina
2805001000	Agric - Livestock/Beef cattle - finishing operations on feedlots (drylots)/Dust Kicked-up by Hooves	EGAS
2810001000	Forest Wildfires - Wildfires - Unspecified	
2810015000	Prescribed Forest Burning/Unspecified	
2810030000	Structure Fires/Unspecified	EGAS
2810050000	Motor Vehicle Fires/Unspecified	
2810060200	Cremation/Animals	
2830000000	Catastrophic/Accidental Releases/All Catastrophic/Accidental Releases/Total	
2830001000	Catastrophic/Accidental Releases/Industrial Accidents/Total	
2841000040	Misc Repair Shops/Misc Repair Shops/Soldering Operations	

Table 3.3-2 Area Source Inventory Data Source Codes

Code	Description
P-07-X-NPT	Pechan default area source estimate
P-07-X-PT	Pechan default total source estimate adjusted for point source activity (note that adjustment only occurred if emissions were reported in point source inventory).
N-02-G	2002 nonpoint source NEI estimate grown using EGAS
N-02-F	2002 nonpoint source NEI estimate carried forward (no growth)
S-05-G	2005 Georgia area source CERR submission estimate grown using EGAS
S-07-X	State agency-supplied estimate
L-07-X	Local agency-supplied estimate
L-07-X-VR	Estimated from local agency VOC estimate and Pechan default inventory derived ratio of pollutant emission factor to VOC emission factor.

3.4 QA/QC PROCEDURES

In addition to the quality assurance procedures that Pechan performed on the draft 2007 stationary area source inventory (e.g., running EPA’s NIF QA/Content Checker program to check for referential integrity issues, invalid entries, and out of typical range values), Pechan quality assured all updates provided by state/local agencies to ensure that they were correctly incorporated into the final inventory, and reviewed the ratios of post-point source subtraction emissions to pre-point source subtraction emissions to confirm that these subtractions were properly implemented.

3.5 EMISSIONS SUMMARIES

This section presents the emission summaries for the final 2007 stationary emissions inventory for the SEMAP project. In addition to the summaries provided in this section, Pechan has also provided SESARM with detailed county-level emission summaries in Excel worksheets.

Table 3.5-1 displays final area source emission estimates. Similar summaries providing 2007 annual state-level emission estimates for each major area source sector are shown in Table 3.5-2 through Table 3.5-4.

Table 3.5-1 Final 2007 Area Source Emission Estimates

State	Pollutant Emissions, TPY	
	NO_x	VOC
South Carolina	11,422	81,888

Table 3.5-2 Final 2007 Combustion Emission Estimates

State	Pollutant Emissions, TPY	
	NO _x	VOC
South Carolina	8,962	2,911

Table 3.5-3 Final 2007 Solvent Emission Estimates

State	Pollutant Emissions, TPY	
	NO _x	VOC
South Carolina	There are no NO _x emissions for these categories.	38,970

Table 3.5-4 Final 2007 All Other Area Source Emission Estimates

State	Pollutant Emissions, TPY	
	NO _x	VOC
South Carolina	2,460	40,007

3.6 POINT SOURCE SUBTRACTION PROCEDURE DETAILS

This Appendix describes source category-specific details on the point source subtraction procedures, and displays the area SCC to point SCC crosswalk (see Tables 3.6-1 through 3.6-6).

A. ICI FUEL COMBUSTION

To assist in the point source subtractions for industrial, commercial, and institutional (ICI) fuel combustion, Pechan developed two crosswalks: one between each Industrial fuel combustion area SCC and associated point SCCs (Table 3.6-1), and an analogous crosswalk developed for Commercial/Institutional fuel combustion (Table 3.6-2).

Because natural gas consumed as pipeline fuel is not included by the Energy Information Administration (EIA) in EIA's state energy consumption data for the Industrial sector, it was necessary to exclude pipeline natural gas combustion emissions from the point source subtraction procedure. Since there are no SCCs specific to pipeline natural gas combustion, point source pipeline natural gas combustion emission estimates were compiled by summing emissions for industrial sector natural gas internal combustion engine records (SCC 202002xx) with a pipeline-related Standard Industrial Classification (SIC) or North American Industrial Classification System (NAICS) code (SIC codes 1311, 1321, 1381, 4612, 4613, 4619, 4922, 4923, 4924, 4925, or 4931; NAICS codes 211111, 21112, 22121, 221210, 486110, 48621, 486210, 486910, 48699, or 486990).

B. SOLVENT UTILIZATION

Table 3.6-4 presents the point source crosswalk for each solvent utilization nonpoint SCC. This crosswalk was derived from the crosswalk used in performing VOC emissions-based point

source subtractions for the 2002 NEI. As noted in the Table A-5 crosswalk, two area source solvent utilization SCCs (2401005000-Auto Refinishing and 2401070000-Motor Vehicles) are associated with the same point SCCs. For the Auto Refinishing area source category, point source subtractions for the listed SCCs were limited to records identified with Auto Refinishing industry sector SIC/NAICS codes (e.g., NAICS code 8111*). Emissions for all other applicable point SCC state/local inventory records were subtracted from total emissions for the Motor Vehicles source category.

C. GASOLINE DISTRIBUTION

Table 3.6-5 displays the point SCCs associated with gasoline distribution. Some of these SCCs do not provide information to separate activity into each area source stage I gasoline distribution filling technology. Therefore, Pechan allocated the emissions from these point SCCs to each filling technology based on the proportion of emissions from Pechan's default inventory.

Table 3.6-1 Industrial Fuel Combustion Crosswalk for Point Source Subtractions

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2102001000 - Stationary Source Fuel Combustion; Industrial; Anthracite Coal; Total: All Boiler Types					
10200101	External Combustion Boilers	Industrial	Anthracite Coal	Pulverized Coal	
10200104	External Combustion Boilers	Industrial	Anthracite Coal	Traveling Grate (Overfeed) Stoker	
10200107	External Combustion Boilers	Industrial	Anthracite Coal	Hand-fired	
10200117	External Combustion Boilers	Industrial	Anthracite Coal	Fluidized Bed Boiler Burning Anthracite-Culm Fuel	
39000189	Industrial Processes	In-process Fuel Use	Anthracite Coal	General	
39000199	Industrial Processes	In-process Fuel Use	Anthracite Coal	General	
2102002000 - Stationary Source Fuel Combustion; Industrial; Bituminous/Subbituminous Coal; Total: All Boiler Types					
10200201	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Pulverized Coal: Wet Bottom	
10200202	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom	
10200203	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Cyclone Furnace	
10200204	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Spreader Stoker	
10200205	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Overfeed Stoker	
10200206	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Underfeed Stoker	
10200210	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Overfeed Stoker **	
10200212	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom (Tangential)	
10200213	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Wet Slurry	
10200217	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	
10200218	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	
10200219	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Cogeneration (Bituminous Coal)	
10200221	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Pulverized Coal: Wet Bottom (Subbituminous Coal)	
10200222	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom (Subbituminous Coal)	
10200223	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Cyclone Furnace (Subbituminous Coal)	
10200224	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Spreader Stoker (Subbituminous Coal)	
10200225	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	
10200226	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)	
10200229	External Combustion Boilers	Industrial	Bituminous/Subbituminous Coal	Cogeneration (Subbituminous Coal)	
10500102	External Combustion Boilers	Space Heaters	Industrial	Coal **	
39000201	Industrial Processes	In-process Fuel Use	Bituminous Coal	Cement Kiln/Dryer (Bituminous Coal)	
39000203	Industrial Processes	In-process Fuel Use	Bituminous Coal	Lime Kiln (Bituminous)	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
39000288	Industrial Processes	In-process Fuel Use	Bituminous Coal	General (Subbituminous)	
39000289	Industrial Processes	In-process Fuel Use	Bituminous Coal	General (Bituminous)	
39000299	Industrial Processes	In-process Fuel Use	Bituminous Coal	General (Bituminous)	
50390002	Waste Disposal	Solid Waste Disposal - Industrial	Auxiliary Fuel/No Emissions	Coal	
2102004000 - Stationary Source Fuel Combustion; Industrial; Distillate Oil; Total: Boilers and IC Engines					
10200501	External Combustion Boilers	Industrial	Distillate Oil	Grades 1 and 2 Oil	
10200502	External Combustion Boilers	Industrial	Distillate Oil	10-100 Million Btu/hr **	
10200503	External Combustion Boilers	Industrial	Distillate Oil	< 10 Million Btu/hr **	
10200504	External Combustion Boilers	Industrial	Distillate Oil	Grade 4 Oil	
10200505	External Combustion Boilers	Industrial	Distillate Oil	Cogeneration	
10201403	External Combustion Boilers	Industrial	CO Boiler	Distillate Oil	
10500105	External Combustion Boilers	Space Heaters	Industrial	Distillate Oil	
20200101	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Turbine	
20200102	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Reciprocating	
20200103	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Turbine: Cogeneration	
20200104	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Reciprocating: Cogeneration	
20200105	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Reciprocating: Crankcase Blowby	
20200106	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Reciprocating: Evaporative Losses (Fuel Storage and Delivery System)	
20200107	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Reciprocating: Exhaust	
20200108	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Turbine: Evaporative Losses (Fuel Storage and Delivery System)	
20200109	Internal Combustion Engines	Industrial	Distillate Oil (Diesel)	Turbine: Exhaust	
20200401	Internal Combustion Engines	Industrial	Large Bore Engine	Diesel	
20200405	Internal Combustion Engines	Industrial	Large Bore Engine	Crankcase Blowby	
20200406	Internal Combustion Engines	Industrial	Large Bore Engine	Evaporative Losses (Fuel Storage and Delivery System)	
20200407	Internal Combustion Engines	Industrial	Large Bore Engine	Exhaust	
27000320	Internal Combustion Engines	Off-highway Diesel Engines	Industrial Equipment	Industrial Fork Lift: Diesel	
30190001	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30190011	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
30190021	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Distillate Oil (No. 2): Flares	
30290001	Industrial Processes	Food and Agriculture	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30390001	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30390011	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
30390021	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Distillate Oil (No. 2): Flares	
30400406	Industrial Processes	Secondary Metal Production	Lead	Pot Furnace Heater: Distillate Oil	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
30490001	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30490011	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
30490021	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Distillate Oil (No. 2): Flares	
30490031	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Distillate Oil (No. 2): Furnaces	
30500208	Industrial Processes	Mineral Products	Asphalt Concrete	Asphalt Heater: Distillate Oil	
30505022	Industrial Processes	Mineral Products	Asphalt Processing (Blowing)	Asphalt Heater: Distillate Oil	
30590001	Industrial Processes	Mineral Products	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30590011	Industrial Processes	Mineral Products	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
30590021	Industrial Processes	Mineral Products	Fuel Fired Equipment	Distillate Oil (No. 2): Flares	
30600901	Industrial Processes	Petroleum Industry	Flares	Distillate Oil	
30609901	Industrial Processes	Petroleum Industry	Incinerators	Distillate Oil (No. 2)	
30790001	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30790011	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
30790021	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Distillate Oil (No. 2): Flares	
30890001	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30890011	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
30890021	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Distillate Oil (No. 2): Flares	
30990001	Industrial Processes	Fabricated Metal Products	Fuel Fired Equipment	Distillate Oil (No. 2): Process Heaters	
30990011	Industrial Processes	Fabricated Metal Products	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
31000401	Industrial Processes	Oil and Gas Production	Process Heaters	Distillate Oil (No. 2)	
31000411	Industrial Processes	Oil and Gas Production	Process Heaters	Distillate Oil (No. 2): Steam Generators	
31390001	Industrial Processes	Electrical Equipment	Process Heaters	Distillate Oil (No. 2)	
39000501	Industrial Processes	In-process Fuel Use	Distillate Oil	Asphalt Dryer **	
39000502	Industrial Processes	In-process Fuel Use	Distillate Oil	Cement Kiln/Dryer	
39000503	Industrial Processes	In-process Fuel Use	Distillate Oil	Lime Kiln	
39000589	Industrial Processes	In-process Fuel Use	Distillate Oil	General	
39000598	Industrial Processes	In-process Fuel Use	Distillate Oil	Grade 4 Oil: General	
39000599	Industrial Processes	In-process Fuel Use	Distillate Oil	General	
39900501	Industrial Processes	Miscellaneous Manufacturing Industries	Process Heater/Furnace	Distillate Oil	
39990001	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Distillate Oil (No. 2): Process Heaters	
39990011	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Distillate Oil (No. 2): Incinerators	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
39990021	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Distillate Oil (No. 2 Oil): Flares	
40201002	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven Heater	Distillate Oil	
40290011	Petroleum and Solvent Evaporation	Surface Coating Operations	Fuel Fired Equipment	Distillate Oil: Incinerator/Afterburner	
49090011	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fuel Fired Equipment	Distillate Oil (No. 2): Incinerators	
49090021	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fuel Fired Equipment	Distillate Oil (No. 2): Flares	
50390005	Waste Disposal	Solid Waste Disposal - Industrial	Auxiliary Fuel/No Emissions	Distillate Oil	
2102005000 - Stationary Source Fuel Combustion; Industrial; Residual Oil; Total: All Boiler Types					
10200401	External Combustion Boilers	Industrial	Residual Oil	Grade 6 Oil	
10200402	External Combustion Boilers	Industrial	Residual Oil	10-100 Million Btu/hr **	
10200403	External Combustion Boilers	Industrial	Residual Oil	< 10 Million Btu/hr **	
10200404	External Combustion Boilers	Industrial	Residual Oil	Grade 5 Oil	
10200405	External Combustion Boilers	Industrial	Residual Oil	Cogeneration	
10201404	External Combustion Boilers	Industrial	CO Boiler	Residual Oil	
20200501	Internal Combustion Engines	Industrial	Residual/Crude Oil	Reciprocating	
20200505	Internal Combustion Engines	Industrial	Residual/Crude Oil	Reciprocating: Crankcase Blowby	
20200506	Internal Combustion Engines	Industrial	Residual/Crude Oil	Reciprocating: Evaporative Losses (Fuel Storage and Delivery System)	
20200507	Internal Combustion Engines	Industrial	Residual/Crude Oil	Reciprocating: Exhaust	
30190002	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Residual Oil: Process Heaters	
30190012	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Residual Oil: Incinerators	
30190022	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Residual Oil: Flares	
30290002	Industrial Processes	Food and Agriculture	Fuel Fired Equipment	Residual Oil: Process Heaters	
30390002	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Residual Oil: Process Heaters	
30390012	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Residual Oil: Incinerators	
30390022	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Residual Oil: Flares	
30490002	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Residual Oil: Process Heaters	
30490012	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Residual Oil: Incinerators	
30490022	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Residual Oil: Flares	
30490032	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Residual Oil: Furnaces	
30500207	Industrial Processes	Mineral Products	Asphalt Concrete	Asphalt Heater: Residual Oil	
30505021	Industrial Processes	Mineral Products	Asphalt Processing (Blowing)	Asphalt Heater: Residual Oil	
30590002	Industrial Processes	Mineral Products	Fuel Fired Equipment	Residual Oil: Process Heaters	
30590012	Industrial Processes	Mineral Products	Fuel Fired Equipment	Residual Oil: Incinerators	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
30600111	Industrial Processes	Petroleum Industry	Process Heaters	Oil-fired (No. 6 Oil) > 100 Million Btu Capacity	
30600902	Industrial Processes	Petroleum Industry	Flares	Residual Oil	
30609902	Industrial Processes	Petroleum Industry	Incinerators	Residual Oil	
30790002	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Residual Oil: Process Heaters	
30790012	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Residual Oil: Incinerators	
30790022	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Residual Oil: Flares	
30890002	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Residual Oil: Process Heaters	
30890012	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Residual Oil: Incinerators	
30890022	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Residual Oil: Flares	
30990002	Industrial Processes	Fabricated Metal Products	Fuel Fired Equipment	Residual Oil: Process Heaters	
30990012	Industrial Processes	Fabricated Metal Products	Fuel Fired Equipment	Residual Oil: Incinerators	
31000402	Industrial Processes	Oil and Gas Production	Process Heaters	Residual Oil	
31000412	Industrial Processes	Oil and Gas Production	Process Heaters	Residual Oil: Steam Generators	
31390002	Industrial Processes	Electrical Equipment	Process Heaters	Residual Oil	
39000402	Industrial Processes	In-process Fuel Use	Residual Oil	Cement Kiln/Dryer	
39000403	Industrial Processes	In-process Fuel Use	Residual Oil	Lime Kiln	
39000489	Industrial Processes	In-process Fuel Use	Residual Oil	General	
39000499	Industrial Processes	In-process Fuel Use	Residual Oil	General	
39990002	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Residual Oil: Process Heaters	
39990012	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Residual Oil: Incinerators	
39990022	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Residual Oil: Flares	
40201003	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven Heater	Residual Oil	
40290012	Petroleum and Solvent Evaporation	Surface Coating Operations	Fuel Fired Equipment	Residual Oil: Incinerator/Afterburner	
49090012	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fuel Fired Equipment	Residual Oil: Incinerators	
49090022	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fuel Fired Equipment	Residual Oil: Flares	
2102006000 - Stationary Source Fuel Combustion; Industrial; Natural Gas; Total: Boilers and IC Engines					
10200601	External Combustion Boilers	Industrial	Natural Gas	> 100 Million Btu/hr	
10200602	External Combustion Boilers	Industrial	Natural Gas	10-100 Million Btu/hr	
10200603	External Combustion Boilers	Industrial	Natural Gas	< 10 Million Btu/hr	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
10200604	External Combustion Boilers	Industrial	Natural Gas	Cogeneration	
10201401	External Combustion Boilers	Industrial	CO Boiler	Natural Gas	
10500106	External Combustion Boilers	Space Heaters	Industrial	Natural Gas	
20200201	Internal Combustion Engines	Industrial	Natural Gas	Turbine	Exclude compressor station natural gas
20200202	Internal Combustion Engines	Industrial	Natural Gas	Reciprocating	Exclude compressor station natural gas
20200203	Internal Combustion Engines	Industrial	Natural Gas	Turbine: Cogeneration	Exclude compressor station natural gas
20200204	Internal Combustion Engines	Industrial	Natural Gas	Reciprocating: Cogeneration	Exclude compressor station natural gas
20200205	Internal Combustion Engines	Industrial	Natural Gas	Reciprocating: Crankcase Blowby	Exclude compressor station natural gas
20200206	Internal Combustion Engines	Industrial	Natural Gas	Reciprocating: Evaporative Losses (Fuel Delivery System)	Exclude compressor station natural gas
20200207	Internal Combustion Engines	Industrial	Natural Gas	Reciprocating: Exhaust	Exclude compressor station natural gas
20200208	Internal Combustion Engines	Industrial	Natural Gas	Turbine: Evaporative Losses (Fuel Delivery System)	Exclude compressor station natural gas
20200209	Internal Combustion Engines	Industrial	Natural Gas	Turbine: Exhaust	Exclude compressor station natural gas
20200251	Internal Combustion Engines	Industrial	Natural Gas	2-cycle Rich Burn	Exclude compressor station natural gas
20200252	Internal Combustion Engines	Industrial	Natural Gas	2-cycle Lean Burn	Exclude compressor station natural gas
20200253	Internal Combustion Engines	Industrial	Natural Gas	4-cycle Rich Burn	Exclude compressor station natural gas
20200254	Internal Combustion Engines	Industrial	Natural Gas	4-cycle Lean Burn	Exclude compressor station natural gas
20200255	Internal Combustion Engines	Industrial	Natural Gas	2-cycle Clean Burn	Exclude compressor station natural gas
20200256	Internal Combustion Engines	Industrial	Natural Gas	4-cycle Clean Burn	Exclude compressor station natural gas
30190003	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Natural Gas: Process Heaters	
30190013	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Natural Gas: Incinerators	
30190023	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	Natural Gas: Flares	
30290003	Industrial Processes	Food and Agriculture	Fuel Fired Equipment	Natural Gas: Process Heaters	
30291001	Industrial Processes	Food and Agriculture	Fuel Fired Equipment	Broiling Food: Natural Gas	
30390003	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Natural Gas: Process Heaters	
30390013	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Natural Gas: Incinerators	
30390023	Industrial Processes	Primary Metal Production	Fuel Fired Equipment	Natural Gas: Flares	
30400407	Industrial Processes	Secondary Metal Production	Lead	Pot Furnace Heater: Natural Gas	
30490003	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Natural Gas: Process Heaters	
30490013	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Natural Gas: Incinerators	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
30490023	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Natural Gas: Flares	
30490033	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Natural Gas: Furnaces	
30500206	Industrial Processes	Mineral Products	Asphalt Concrete	Asphalt Heater: Natural Gas	
30505020	Industrial Processes	Mineral Products	Asphalt Processing (Blowing)	Asphalt Heater: Natural Gas	
30590003	Industrial Processes	Mineral Products	Fuel Fired Equipment	Natural Gas: Process Heaters	
30590013	Industrial Processes	Mineral Products	Fuel Fired Equipment	Natural Gas: Incinerators	
30590023	Industrial Processes	Mineral Products	Fuel Fired Equipment	Natural Gas: Flares	
30600105	Industrial Processes	Petroleum Industry	Process Heaters	Natural Gas	
30600903	Industrial Processes	Petroleum Industry	Flares	Natural Gas	
30602401	Industrial Processes	Petroleum Industry	Reciprocating Engine Compressors	Natural Gas Fired	
30609903	Industrial Processes	Petroleum Industry	Incinerators	Natural Gas	
30790003	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Natural Gas: Process Heaters	
30790013	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Natural Gas: Incinerators	
30790023	Industrial Processes	Pulp and Paper and Wood Products	Fuel Fired Equipment	Natural Gas: Flares	
30890003	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Natural Gas: Process Heaters	
30890013	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Natural Gas: Incinerators	
30890023	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Natural Gas: Flares	
30990003	Industrial Processes	Fabricated Metal Products	Fuel Fired Equipment	Natural Gas: Process Heaters	
30990013	Industrial Processes	Fabricated Metal Products	Fuel Fired Equipment	Natural Gas: Incinerators	
30990023	Industrial Processes	Fabricated Metal Products	Fuel Fired Equipment	Natural Gas: Flares	
31000404	Industrial Processes	Oil and Gas Production	Process Heaters	Natural Gas	
31000414	Industrial Processes	Oil and Gas Production	Process Heaters	Natural Gas: Steam Generators	
31390003	Industrial Processes	Electrical Equipment	Process Heaters	Natural Gas	
39000602	Industrial Processes	In-process Fuel Use	Natural Gas	Cement Kiln/Dryer	
39000603	Industrial Processes	In-process Fuel Use	Natural Gas	Lime Kiln	
39000605	Industrial Processes	In-process Fuel Use	Natural Gas	Metal Melting **	
39000689	Industrial Processes	In-process Fuel Use	Natural Gas	General	
39000699	Industrial Processes	In-process Fuel Use	Natural Gas	General	
39900601	Industrial Processes	Miscellaneous Manufacturing Industries	Process Heater/Furnace	Natural Gas	
39990003	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Natural Gas: Process Heaters	
39990013	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Natural Gas: Incinerators	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
39990023	Industrial Processes	Miscellaneous Manufacturing Industries	Miscellaneous Manufacturing Industries	Natural Gas: Flares	
40201001	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven Heater	Natural Gas	
40290013	Petroleum and Solvent Evaporation	Surface Coating Operations	Fuel Fired Equipment	Natural Gas: Incinerator/Afterburner	
40290023	Petroleum and Solvent Evaporation	Surface Coating Operations	Fuel Fired Equipment	Natural Gas: Flares	
49090013	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fuel Fired Equipment	Natural Gas: Incinerators	
49090023	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fuel Fired Equipment	Natural Gas: Flares	
50390006	Waste Disposal	Solid Waste Disposal - Industrial	Auxiliary Fuel/No Emissions	Natural Gas	
2102007000 - Stationary Source Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG); Total: All Boiler Types					
10201001	External Combustion Boilers	Industrial	Liquified Petroleum Gas (LPG)	Butane	
10201002	External Combustion Boilers	Industrial	Liquified Petroleum Gas (LPG)	Propane	
10201003	External Combustion Boilers	Industrial	Liquified Petroleum Gas (LPG)	Butane/Propane Mixture: Specify Percent Butane in Comments	
10500110	External Combustion Boilers	Space Heaters	Industrial	Liquified Petroleum Gas (LPG)	
20201001	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Propane: Reciprocating	
20201002	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Butane: Reciprocating	
20201005	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Reciprocating: Crankcase Blowby	
20201006	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Reciprocating: Evaporative Losses (Fuel Storage and Delivery System)	
20201007	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Reciprocating: Exhaust	
20201008	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Turbine: Evaporative Losses (Fuel Storage and Delivery System)	
20201009	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Turbine: Exhaust	
20201011	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Turbine	
20201012	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Reciprocating Engine	
20201013	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Turbine: Cogeneration	
20201014	Internal Combustion Engines	Industrial	Liquified Petroleum Gas (LPG)	Reciprocating Engine: Cogeneration	
27300320	Internal Combustion Engines	Off-highway LPG-fueled Engines	Industrial Equipment	Industrial Fork Lift: Liquified Petroleum Gas (LPG)	
30290005	Industrial Processes	Food and Agriculture	Fuel Fired Equipment	Liquified Petroleum Gas (LPG): Process Heaters	
30490035	Industrial Processes	Secondary Metal Production	Fuel Fired Equipment	Propane: Furnaces	
30500209	Industrial Processes	Mineral Products	Asphalt Concrete	Asphalt Heater: LPG	
30505023	Industrial Processes	Mineral Products	Asphalt Processing (Blowing)	Asphalt Heater: LP Gas	
30590005	Industrial Processes	Mineral Products	Fuel Fired Equipment	Liquified Petroleum Gas (LPG): Process Heaters	
30600107	Industrial Processes	Petroleum Industry	Process Heaters	LPG-fired	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
30600905	Industrial Processes	Petroleum Industry	Flares	Liquified Petroleum Gas	
30609905	Industrial Processes	Petroleum Industry	Incinerators	Liquified Petroleum Gas	
30890004	Industrial Processes	Rubber and Miscellaneous Plastics Products	Fuel Fired Equipment	Liquified Petroleum Gas (LPG): Process Heaters	
31000406	Industrial Processes	Oil and Gas Production	Process Heaters	Propane/Butane	
39001089	Industrial Processes	In-process Fuel Use	Liquified Petroleum Gas	General	
39001099	Industrial Processes	In-process Fuel Use	Liquified Petroleum Gas	General	
39901001	Industrial Processes	Miscellaneous Manufacturing Industries	Process Heater/Furnace	LPG	
40201004	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven Heater	Liquified Petroleum Gas (LPG)	
50390010	Waste Disposal	Solid Waste Disposal - Industrial	Auxiliary Fuel/No Emissions	Liquified Petroleum Gas (LPG)	
2102008000 - Stationary Source Fuel Combustion; Industrial; Wood; Total: All Boiler Types					
10200901	External Combustion Boilers	Industrial	Wood/Bark Waste	Bark-fired Boiler	
10200902	External Combustion Boilers	Industrial	Wood/Bark Waste	Wood/Bark-fired Boiler	
10200903	External Combustion Boilers	Industrial	Wood/Bark Waste	Wood-fired Boiler - Wet Wood (>=20% moisture)	
10200904	External Combustion Boilers	Industrial	Wood/Bark Waste	Bark-fired Boiler (< 50,000 Lb Steam) **	
10200905	External Combustion Boilers	Industrial	Wood/Bark Waste	Wood/Bark-fired Boiler (< 50,000 Lb Steam) **	
10200906	External Combustion Boilers	Industrial	Wood/Bark Waste	Wood-fired Boiler (< 50,000 Lb Steam) **	
10200907	External Combustion Boilers	Industrial	Wood/Bark Waste	Wood Cogeneration	
10200908	External Combustion Boilers	Industrial	Wood/Bark Waste	Wood-fired Boiler - Dry Wood (<20% moisture)	
10200910	External Combustion Boilers	Industrial	Wood/Bark Waste	Fuel cell/Dutch oven boilers **	
10200911	External Combustion Boilers	Industrial	Wood/Bark Waste	Stoker boilers **	
10200912	External Combustion Boilers	Industrial	Wood/Bark Waste	Fluidized bed combustion boiler	
39000989	Industrial Processes	In-process Fuel Use	Wood	General	
39000999	Industrial Processes	In-process Fuel Use	Wood	General: Wood	
2102011000 - Stationary Source Fuel Combustion; Industrial; Kerosene; Total: All Boiler Types					
20200901	Internal Combustion Engines	Industrial	Kerosene/Naphtha (Jet Fuel)	Turbine	
20200902	Internal Combustion Engines	Industrial	Kerosene/Naphtha (Jet Fuel)	Reciprocating	
20200905	Internal Combustion Engines	Industrial	Kerosene/Naphtha (Jet Fuel)	Reciprocating: Crankcase Blowby	
20200906	Internal Combustion Engines	Industrial	Kerosene/Naphtha (Jet Fuel)	Reciprocating: Evaporative Losses (Fuel Storage and Delivery System)	
20200907	Internal Combustion Engines	Industrial	Kerosene/Naphtha (Jet Fuel)	Reciprocating: Exhaust	
20200908	Internal Combustion Engines	Industrial	Kerosene/Naphtha (Jet Fuel)	Turbine: Evaporative Losses (Fuel Storage and Delivery System)	
20200909	Internal Combustion Engines	Industrial	Kerosene/Naphtha (Jet Fuel)	Turbine: Exhaust	

Table 3.6-2 Commercial/Institutional Fuel Combustion Crosswalk for Point Source Subtractions

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2103001000 - Stationary Source Fuel Combustion; Commercial/Institutional; Anthracite Coal; Total: All Boiler Types					
10300101	External Combustion Boilers	Commercial/Institutional	Anthracite Coal	Pulverized Coal	
10300102	External Combustion Boilers	Commercial/Institutional	Anthracite Coal	Traveling Grate (Overfeed) Stoker	
10300103	External Combustion Boilers	Commercial/Institutional	Anthracite Coal	Hand-fired	
2103002000 - Stationary Source Fuel Combustion; Commercial/Institutional; Bituminous/Subbituminous Coal; Total: All Boiler Types					
10300203	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Cyclone Furnace (Bituminous Coal)	
10300205	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Pulverized Coal: Wet Bottom (Bituminous Coal)	
10300206	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom (Bituminous Coal)	
10300207	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Overfeed Stoker (Bituminous Coal)	
10300208	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Underfeed Stoker (Bituminous Coal)	
10300209	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Spreader Stoker (Bituminous Coal)	
10300211	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Overfeed Stoker **	
10300214	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Hand-fired (Bituminous Coal)	
10300216	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)	
10300217	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	
10300218	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	
10300221	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Pulverized Coal: Wet Bottom (Subbituminous Coal)	
10300222	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom (Subbituminous Coal)	
10300223	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Cyclone Furnace (Subbituminous Coal)	
10300224	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Spreader Stoker (Subbituminous Coal)	
10300225	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	
10300226	External Combustion Boilers	Commercial/Institutional	Bituminous/Subbituminous Coal	Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)	
10500202	External Combustion Boilers	Space Heaters	Commercial/Institutional	Coal **	
50190002	Waste Disposal	Solid Waste Disposal - Government	Auxiliary Fuel/No Emissions	Coal	
50290002	Waste Disposal	Solid Waste Disposal - Commercial/Institutional	Auxiliary Fuel/No Emissions	Coal	
2103004000 - Stationary Source Fuel Combustion; Commercial/Institutional; Distillate Oil; Total: Boilers and IC Engines					
10300501	External Combustion Boilers	Commercial/Institutional	Distillate Oil	Grades 1 and 2 Oil	
10300502	External Combustion Boilers	Commercial/Institutional	Distillate Oil	10-100 Million Btu/hr **	
10300503	External Combustion Boilers	Commercial/Institutional	Distillate Oil	< 10 Million Btu/hr **	
10300504	External Combustion Boilers	Commercial/Institutional	Distillate Oil	Grade 4 Oil	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
10500205	External Combustion Boilers	Space Heaters	Commercial/Institutional	Distillate Oil	
20300101	Internal Combustion Engines	Commercial/Institutional	Distillate Oil (Diesel)	Reciprocating	
20300102	Internal Combustion Engines	Commercial/Institutional	Distillate Oil (Diesel)	Turbine	
20300105	Internal Combustion Engines	Commercial/Institutional	Distillate Oil (Diesel)	Reciprocating: Crankcase Blowby	
20300106	Internal Combustion Engines	Commercial/Institutional	Distillate Oil (Diesel)	Reciprocating: Evaporative Losses (Fuel Storage and Delivery System)	
20300107	Internal Combustion Engines	Commercial/Institutional	Distillate Oil (Diesel)	Reciprocating: Exhaust	
20300108	Internal Combustion Engines	Commercial/Institutional	Distillate Oil (Diesel)	Turbine: Evaporative Losses (Fuel Storage and Delivery System)	
20300109	Internal Combustion Engines	Commercial/Institutional	Distillate Oil (Diesel)	Turbine: Exhaust	
50100602	Waste Disposal	Solid Waste Disposal - Government	Fire Fighting	Structure: Distillate Oil	
50190005	Waste Disposal	Solid Waste Disposal - Government	Auxiliary Fuel/No Emissions	Distillate Oil	
50290005	Waste Disposal	Solid Waste Disposal - Commercial/Institutional	Auxiliary Fuel/No Emissions	Distillate Oil	
2103005000 - Stationary Source Fuel Combustion; Commercial/Institutional; Residual Oil; Total: All Boiler Types					
10300401	External Combustion Boilers	Commercial/Institutional	Residual Oil	Grade 6 Oil	
10300402	External Combustion Boilers	Commercial/Institutional	Residual Oil	10-100 Million Btu/hr **	
10300403	External Combustion Boilers	Commercial/Institutional	Residual Oil	< 10 Million Btu/hr **	
10300404	External Combustion Boilers	Commercial/Institutional	Residual Oil	Grade 5 Oil	
2103006000 - Stationary Source Fuel Combustion; Commercial/Institutional; Natural Gas; Total: Boilers and IC Engines					
10300601	External Combustion Boilers	Commercial/Institutional	Natural Gas	> 100 Million Btu/hr	
10300602	External Combustion Boilers	Commercial/Institutional	Natural Gas	10-100 Million Btu/hr	
10300603	External Combustion Boilers	Commercial/Institutional	Natural Gas	< 10 Million Btu/hr	
10500206	External Combustion Boilers	Space Heaters	Commercial/Institutional	Natural Gas	
20300201	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Reciprocating	
20300202	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Turbine	
20300203	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Turbine: Cogeneration	
20300204	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Cogeneration	
20300205	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Reciprocating: Crankcase Blowby	
20300206	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Reciprocating: Evaporative Losses (Fuel Delivery System)	
20300207	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Reciprocating: Exhaust	
20300208	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Turbine: Evaporative Losses (Fuel Delivery System)	
20300209	Internal Combustion Engines	Commercial/Institutional	Natural Gas	Turbine: Exhaust	
50190006	Waste Disposal	Solid Waste Disposal - Government	Auxiliary Fuel/No Emissions	Natural Gas	
50290006	Waste Disposal	Solid Waste Disposal - Commercial/Institutional	Auxiliary Fuel/No Emissions	Natural Gas	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2103007000 - Stationary Source Fuel Combustion; Commercial/Institutional; Liquefied Petroleum Gas (LPG); Total: All Combustor Types					
10301001	External Combustion Boilers	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Butane	
10301002	External Combustion Boilers	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Propane	
10301003	External Combustion Boilers	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Butane/Propane Mixture: Specify Percent Butane in Comments	
10500210	External Combustion Boilers	Space Heaters	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	
20301001	Internal Combustion Engines	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Propane: Reciprocating	
20301002	Internal Combustion Engines	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Butane: Reciprocating	
20301005	Internal Combustion Engines	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Reciprocating: Crankcase Blowby	
20301006	Internal Combustion Engines	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Reciprocating: Evaporative Losses (Fuel Storage and Delivery System)	
20301007	Internal Combustion Engines	Commercial/Institutional	Liquefied Petroleum Gas (LPG)	Reciprocating: Exhaust	
50190010	Waste Disposal	Solid Waste Disposal - Government	Auxiliary Fuel/No Emissions	Liquefied Petroleum Gas (LPG)	
50290010	Waste Disposal	Solid Waste Disposal - Commercial/Institutional	Auxiliary Fuel/No Emissions	Liquefied Petroleum Gas (LPG)	
2103008000 - Stationary Source Fuel Combustion; Commercial/Institutional; Wood; Total: All Boiler Types					
10300901	External Combustion Boilers	Commercial/Institutional	Wood/Bark Waste	Bark-fired Boiler	
10300902	External Combustion Boilers	Commercial/Institutional	Wood/Bark Waste	Wood/Bark-fired Boiler	
10300903	External Combustion Boilers	Commercial/Institutional	Wood/Bark Waste	Wood-fired Boiler - Wet Wood (>=20% moisture)	
10300908	External Combustion Boilers	Commercial/Institutional	Wood/Bark Waste	Wood-fired Boiler - Dry Wood (<20% moisture)	
10300910	External Combustion Boilers	Commercial/Institutional	Wood/Bark Waste	Fuel cell/Dutch oven boilers **	
10300911	External Combustion Boilers	Commercial/Institutional	Wood/Bark Waste	Stoker boilers **	
10300912	External Combustion Boilers	Commercial/Institutional	Wood/Bark Waste	Fluidized bed combustion boilers	
10500209	External Combustion Boilers	Space Heaters	Commercial/Institutional	Wood	
2103011000 - Stationary Source Fuel Combustion; Commercial/Institutional; Kerosene; Total: All Combustor Types					
20300901	Internal Combustion Engines	Commercial/Institutional	Kerosene/Naphtha (Jet Fuel)	Turbine: JP-4	
20300908	Internal Combustion Engines	Commercial/Institutional	Kerosene/Naphtha (Jet Fuel)	Turbine: Evaporative Losses (Fuel Storage and Delivery System)	
20300909	Internal Combustion Engines	Commercial/Institutional	Kerosene/Naphtha (Jet Fuel)	Turbine: Exhaust	
50100603	Waste Disposal	Solid Waste Disposal - Government	Fire Fighting	Structure: Kerosene	

Table 3.6-3 Publicly Owned Treatment Works Crosswalk for Point Source Subtractions

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2630020000 - Waste Disposal, Treatment, and Recovery; Wastewater Treatment; Public Owned; Total Processed					
50100701	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Entire Plant	
50100702	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Primary Settling Tank	
50100703	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Secondary Settling Tank	
50100704	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Aeration Tank	
50100707	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Headworks Screening	
50100708	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Comminutor	
50100710	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Collector Sewers	
50100715	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Aerated Grit Chamber	
50100719	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Lift Station	
50100720	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Primary Settling Tank	
50100731	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Diffused Air Act Sludge	
50100732	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Mechanical Mix Air Act Sludge	
50100733	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Pure Oxygen Act Sludge	
50100734	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Trickling Filter	
50100740	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Secondary Clarifier	
50100750	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Tertiary Filters	
50100760	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Chlorine Contact Tank	
50100761	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Dechlorination	
50100765	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Weir	
50100769	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Storage Basin or Open Tank	
50100771	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Gravity Sludge Thickener	
50100772	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: DAF Sludge Thickener	
50100781	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Anaerobic Digester	
50100791	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Belt Filter Press	
50100792	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Sludge Centrifuge	
50100793	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	POTW: Sludge Drying Bed	
50100795	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Sludge Storage Lagoons/Drying Beds	
50100799	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	Other Not Classified	

Table 3.6-4 Solvent Utilization Crosswalk for Point Source Subtractions

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2401005000 - Solvent Utilization; Surface Coating; Auto Refinishing; SIC 7532; Total: All Solvent Types					
40201601	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Application/Electro-deposition/Dip/Spray	Only include if NAICS code = 8111*
40201602	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Cleaning/Pretreatment	Only include if NAICS code = 8111*
40201603	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Coating Mixing	Only include if NAICS code = 8111*
40201604	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Coating Storage	Only include if NAICS code = 8111*
40201605	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Equipment Cleanup	Only include if NAICS code = 8111*
40201606	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat Operation	Only include if NAICS code = 8111*
40201607	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Sealers	Only include if NAICS code = 8111*
40201608	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Deadeners	Only include if NAICS code = 8111*
40201609	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Anti-corrosion Priming	Only include if NAICS code = 8111*
40201619	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Surfacing Operation	Only include if NAICS code = 8111*
40201620	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Repair Topcoat Application Area	Only include if NAICS code = 8111*
40201621	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Solvent-borne - Automobiles	Only include if NAICS code = 8111*
40201622	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Electro-deposition - Automobiles	Only include if NAICS code = 8111*
40201623	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Solvent-borne - Automobiles	Only include if NAICS code = 8111*
40201624	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Water-borne - Automobiles	Only include if NAICS code = 8111*
40201625	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Solvent-borne - Automobiles	Only include if NAICS code = 8111*
40201626	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Water-borne - Automobiles	Only include if NAICS code = 8111*
40201627	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Solvent-borne - Light Trucks	Only include if NAICS code = 8111*
40201628	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Electro-deposition - Light Trucks	Only include if NAICS code = 8111*
40201629	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Solvent-borne - Light Trucks	Only include if NAICS code = 8111*
40201630	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Water-borne - Light Trucks	Only include if NAICS code = 8111*
40201631	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Solvent-borne - Light Trucks	Only include if NAICS code = 8111*

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40201632	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Water-borne - Light Trucks	Only include if NAICS code = 8111*
40201699	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Other Not Classified	Only include if NAICS code = 8111*
2401015000 - Solvent Utilization; Surface Coating; Factory Finished Wood: SIC 2426 thru 242; Total: All Solvent Types					
40202101	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Base Coat	
40202103	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Coating Mixing	
40202104	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Coating Storage	
40202105	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Equipment Cleanup	
40202106	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Topcoat	
40202107	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Filler	
40202108	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Sealer	
40202109	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Inks	
40202110	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Grove Coat Application	
40202111	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Stain Application	
40202117	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Filler Sander	
40202118	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Sealer Sander	
40202131	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Water-borne Coating	
40202132	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Solvent-borne Coating	
40202133	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Ultraviolet Coating	
40202140	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Surface Preparation (Includes Tempering, Sanding, Brushing, Grove Cut)	
40202199	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	Other Not Classified	
2401020000 - Solvent Utilization; Surface Coating; Wood Furniture: SIC 25; Total: All Solvent Types					
40201901	Petroleum and Solvent Evaporation	Surface Coating Operations	Wood Furniture Surface Coating	Coating Operation	
40201903	Petroleum and Solvent Evaporation	Surface Coating Operations	Wood Furniture Surface Coating	Coating Mixing	
40201904	Petroleum and Solvent Evaporation	Surface Coating Operations	Wood Furniture Surface Coating	Coating Storage	
40201999	Petroleum and Solvent Evaporation	Surface Coating Operations	Wood Furniture Surface Coating	Other Not Classified	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2401025000 - Solvent Utilization; Surface Coating; Metal Furniture: SIC 25; Total: All Solvent Types					
40202001	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Coating Operation	
40202002	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Cleaning/Pretreatment	
40202003	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Coating Mixing	
40202004	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Coating Storage	
40202005	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Equipment Cleanup	
40202010	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Prime Coat Application	
40202011	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Prime Coat Application: Spray, High Solids	
40202012	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Prime Coat Application: Spray, Water-borne	
40202013	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Prime Coat Application: Dip	
40202014	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Prime Coat Application: Flow Coat	
40202015	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Prime Coat Application: Flashoff	
40202020	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Topcoat Application	
40202021	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Topcoat Application: Spray, High Solids	
40202022	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Topcoat Application: Spray, Water-borne	
40202023	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Topcoat Application: Dip	
40202024	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Topcoat Application: Flow Coat	
40202025	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Topcoat Application: Flashoff	
40202031	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Single Spray Line: General	
40202032	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Spray Dip Line: General ** (Use 4-02-020-37)	
40202033	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Spray High Solids Coating ** (Use 4-02-020-35)	
40202034	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Spray Water-borne Coating ** (Use 4-02-020-36)	
40202035	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Single Coat Application: Spray, High Solids	
40202036	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Single Coat Application: Spray, Water-borne	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40202037	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Single Coat Application: Dip	
40202038	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Single Coat Application: Flow Coat	
40202039	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Single Coat Application: Flashoff	
40202099	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	Other Not Classified	
2401030000 - Solvent Utilization; Surface Coating; Paper: SIC 26; Total: All Solvent Types					
40201301	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Coating Operation	
40201303	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Coating Mixing	
40201304	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Coating Storage	
40201305	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Equipment Cleanup	
40201310	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Coating Application: Knife Coater	
40201320	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Coating Application: Reverse Roll Coater	
40201330	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Coating Application: Rotogravure Printer	
40201399	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	Other Not Classified	
2401040000 - Solvent Utilization; Surface Coating; Metal Cans: SIC 341; Total: All Solvent Types					
40201702	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Cleaning/Pretreatment	
40201703	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Coating Mixing	
40201704	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Coating Storage	
40201705	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Equipment Cleanup	
40201706	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Solvent Storage	
40201721	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Two Piece Exterior Base Coating	
40201722	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Interior Spray Coating	
40201723	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Sheet Base Coating (Interior)	
40201724	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Sheet Base Coating (Exterior)	
40201725	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Side Seam Spray Coating	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40201726	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	End Sealing Compound (Also See 4-02-017-36 & -37)	
40201727	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Lithography	
40201728	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Over Varnish	
40201729	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Exterior End Coating	
40201731	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Three-piece Can Sheet Base Coating	
40201732	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Three-piece Can Sheet Lithographic Coating Line	
40201733	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Three-piece Can-side Seam Spray Coating	
40201734	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Three-piece Can Interior Body Spray Coat	
40201735	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Two-piece Can Coating Line	
40201736	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Two-piece Can End Sealing Compound	
40201737	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Three Piece Can End Sealing Compound	
40201738	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Two Piece Can Lithographic Coating Line	
40201739	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Three Piece Can Coating Line (All Coating Solvent Emission Points)	
40201799	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Can Coating	Other Not Classified	
2401045000 - Solvent Utilization; Surface Coating; Metal Coils: SIC 3498; Total: All Solvent Types					
40201801	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Prime Coating Application	
40201802	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Cleaning/Pretreatment	
40201803	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Solvent Mixing	
40201804	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Solvent Storage (Use 4-07-004-01 thru 4-07-999-98 if possible)	
40201805	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Equipment Cleanup	
40201806	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Finish Coating	
40201807	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Coating Storage	
40201899	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Coil Coating	Other Not Classified	
2401055000 - Solvent Utilization; Surface Coating; Machinery and Equipment: SIC 35; Total: All Solvent Types					

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40202501	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Coating Operation	
40202502	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Cleaning/Pretreatment	
40202503	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Coating Mixing	
40202504	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Coating Storage	
40202505	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Equipment Cleanup	
40202510	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Prime Coat Application	
40202511	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Prime Coat Application: Spray, High Solids	
40202512	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Prime Coat Application: Spray, Water-borne	
40202515	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Prime Coat Application: Flashoff	
40202520	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Topcoat Application	
40202521	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Topcoat Application: Spray, High Solids	
40202522	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Topcoat Application: Spray, Water-borne	
40202523	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Topcoat Application: Dip	
40202524	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Topcoat Application: Flow Coat	
40202525	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Topcoat Application: Flashoff	
40202531	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Conveyor Single Flow	
40202532	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Conveyor Single Dip	
40202533	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Conveyor Single Spray	
40202534	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Conveyor Two Coat, Flow and Spray	
40202535	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Conveyor Two Coat, Dip and Spray	
40202536	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Conveyor Two Coat, Spray	
40202537	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Manual Two Coat, Spray and Air Dry	
40202542	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Single Coat Application: Spray, High Solids	
40202543	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Single Coat Application: Spray, Water-borne	
40202544	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Single Coat Application: Dip	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40202545	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Single Coat Application: Flow Coat	
40202546	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Single Coat Application: Flashoff	
40202599	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	Other Not Classified	
2401060000 - Solvent Utilization; Surface Coating; Large Appliances: SIC 363; Total: All Solvent Types					
40201401	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Prime Coating Operation	
40201402	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Cleaning/Pretreatment	
40201403	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Coating Mixing	
40201404	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Coating Storage	
40201405	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Equipment Cleanup	
40201406	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Topcoat Spray	
40201410	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Prime Coat Flashoff	
40201411	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Topcoat Flashoff	
40201431	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Coating Line: General	
40201432	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Prime Air Spray	
40201433	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Prime Electrostatic Spray	
40201434	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Prime Flow Coat	
40201435	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Prime Dip Coat	
40201436	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Prime Electro-deposition	
40201437	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Top Air Spray	
40201438	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Top Electrostatic Spray	
40201499	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	Other Not Classified	
2401065000 - Solvent Utilization; Surface Coating; Electronic and Other Electrical: SIC 36 – 363; Total: All Solvent Types					
40203001	Petroleum and Solvent Evaporation	Surface Coating Operations	Semiconductors	Specify Solvent	
2401070000 - Solvent Utilization; Surface Coating; Motor Vehicles: SIC 371; Total: All Solvent Types					

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40201601	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Application/Electro-deposition/Dip/Spray	Include unless NAICS = 8111*
40201602	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Cleaning/Pretreatment	Include unless NAICS = 8111*
40201603	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Coating Mixing	Include unless NAICS = 8111*
40201604	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Coating Storage	Include unless NAICS = 8111*
40201605	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Equipment Cleanup	Include unless NAICS = 8111*
40201606	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat Operation	Include unless NAICS = 8111*
40201607	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Sealers	Include unless NAICS = 8111*
40201608	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Deadeners	Include unless NAICS = 8111*
40201609	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Anti-corrosion Priming	Include unless NAICS = 8111*
40201619	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Surfacing Operation	Include unless NAICS = 8111*
40201620	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Repair Topcoat Application Area	Include unless NAICS = 8111*
40201621	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Solvent-borne - Automobiles	Include unless NAICS = 8111*
40201622	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Electro-deposition - Automobiles	Include unless NAICS = 8111*
40201623	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Solvent-borne - Automobiles	Include unless NAICS = 8111*
40201624	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Water-borne - Automobiles	Include unless NAICS = 8111*
40201625	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Solvent-borne - Automobiles	Include unless NAICS = 8111*
40201626	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Water-borne - Automobiles	Include unless NAICS = 8111*
40201627	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Solvent-borne - Light Trucks	Include unless NAICS = 8111*
40201628	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Prime Coating: Electro-deposition - Light Trucks	Include unless NAICS = 8111*
40201629	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Solvent-borne - Light Trucks	Include unless NAICS = 8111*
40201630	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Guide Coating: Water-borne - Light Trucks	Include unless NAICS = 8111*
40201631	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Solvent-borne - Light Trucks	Include unless NAICS = 8111*
40201632	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Topcoat: Water-borne - Light Trucks	Include unless NAICS = 8111*
40201699	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	Other Not Classified	Include unless NAICS = 8111*

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2401075000 - Solvent Utilization; Surface Coating; Aircraft: SIC 372; Total: All Solvent Types					
40202401	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft		Prime Coating Operation
40202402	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft		Cleaning/Pretreatment
40202403	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft		Coating Mixing
40202404	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft		Coating Storage
40202405	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft		Equipment Cleanup
40202406	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft		Topcoat Operation
40202499	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft		Other Not Classified
2401080000 - Solvent Utilization; Surface Coating; Marine: SIC 373; Total: All Solvent Types					
40202301	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Ships		Prime Coating Operation
40202302	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Ships		Cleaning/Pretreatment
40202303	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Ships		Coating Mixing
40202304	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Ships		Coating Storage
40202305	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Ships		Equipment Cleanup
40202306	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Ships		Topcoat Operation
40202399	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Ships		Other Not Classified
2401090000 - Solvent Utilization; Surface Coating; Miscellaneous Manufacturing; Total: All Solvent Types					
40202201	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts		Coating Operation
40202202	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts		Cleaning/Pretreatment
40202203	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts		Coating Mixing
40202204	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts		Coating Storage
40202205	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts		Equipment Cleanup
40202206	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts		Business: Baseline Coating Mix
40202207	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts		Business: Low Solids Solvent-borne Coating

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40202208	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: Medium Solids Solvent-borne Coating	
40202209	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: High Solids Coating (25% Efficiency)	
40202210	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: High Solids Solvent-borne Coating (40% Efficiency)	
40202211	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: Water-borne Coating	
40202212	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: Low Solids Solvent-borne EMI/RFI Shielding Coating	
40202213	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: Higher Solids Solvent-borne EMI/RFI Shielding Coating	
40202214	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: Water-borne EMI/RFI Shielding Coating	
40202215	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Business: Zinc Arc Spray	
40202220	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Prime Coat Application	
40202229	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Prime Coat Flashoff	
40202230	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Color Coat Application	
40202239	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Color Coat Flashoff	
40202240	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Topcoat/Texture Coat Application	
40202249	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Topcoat/Texture Coat Flashoff	
40202250	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	EMI/RFI Shielding Coat Application	
40202259	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	EMI/RFI Shielding Coat Flashoff	
40202270	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Sanding/Grit Blasting Prior to EMI/RFI Shielding Coat Application	
40202280	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Maskant Application	
40202299	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	Other Not Classified	
241500000 - Solvent Utilization; Degreasing; All Processes/All Industries; Total: All Solvent Types					
40100201	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Stoddard (Petroleum Solvent): Open-top Vapor Degreasing	
40100202	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	1,1,1-Trichloroethane (Methyl Chloroform): Open-top Vapor Degreasing	
40100203	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Perchloroethylene: Open-top Vapor Degreasing	
40100204	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Methylene Chloride: Open-top Vapor Degreasing	
40100205	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Trichloroethylene: Open-top Vapor Degreasing	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40100206	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Toluene: Open-top Vapor Degreasing	
40100207	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Trichlorotrifluoroethane (Freon): Open-top Vapor Degreasing	
40100208	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Chlorosolve: Open-top Vapor Degreasing	
40100209	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Butyl Acetate: Open-top Vapor Degreasing	
40100215	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Entire Unit: Open-top Vapor Degreasing	
40100216	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Degreaser: Entire Unit	
40100217	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Entire Unit	
40100221	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Stoddard (Petroleum Solvent): Conveyorized Vapor Degreasing	
40100222	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	1,1,1-Trichloroethane (Methyl Chloroform): Conveyorized Vapor Degreaser	
40100223	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Perchloroethylene: Conveyorized Vapor Degreasing	
40100224	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Methylene Chloride: Conveyorized Vapor Degreasing	
40100225	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Trichloroethylene: Conveyorized Vapor Degreasing	
40100235	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Entire Unit: with Vaporized Solvent: Conveyorized Vapor Degreasing	
40100236	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Entire Unit: with Non-boiling Solvent: Conveyorized Vapor Degreasing	
40100251	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Stoddard (Petroleum Solvent): General Degreasing Units	
40100252	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	1,1,1-Trichloroethane (Methyl Chloroform): General Degreasing Units	
40100253	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Perchloroethylene: General Degreasing Units	
40100254	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Methylene Chloride: General Degreasing Units	
40100255	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Trichloroethylene: General Degreasing Units	
40100256	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Toluene: General Degreasing Units	
40100257	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Trichlorotrifluoroethane (Freon): General Degreasing Units	
40100258	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Trichlorofluoromethane: General Degreasing Units	
40100259	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	1,1,1-Trichloroethane (Methyl Chloroform): General Degreasing Units	
40100295	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Other Not Classified: General Degreasing Units	
40100296	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Other Not Classified: General Degreasing Units	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40100297	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Other Not Classified: Open-top Vapor Degreasing	
40100298	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Other Not Classified: ConveyORIZED Vapor Degreasing	
40100299	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	Other Not Classified: Open-top Vapor Degreasing	
40100301	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Methanol	
40100302	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Methylene Chloride	
40100303	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Stoddard (Petroleum Solvent)	
40100304	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Perchloroethylene	
40100305	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	1,1,1-Trichloroethane (Methyl Chloroform)	
40100306	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Trichloroethylene	
40100307	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Isopropyl Alcohol	
40100308	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Methyl Ethyl Ketone	
40100309	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Freon	
40100310	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Acetone	
40100311	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Glycol Ethers	
40100335	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Entire Unit	
40100336	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Degreaser: Entire Unit	
40100398	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Other Not Classified	
40100399	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	Other Not Classified	
40100401	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Knit Fabric Scouring with Chlorinated Solvent	Perchloroethylene	
2425000000 - Solvent Utilization; Graphic Arts; All Processes; Total: All Solvent Types					
40500101	Petroleum and Solvent Evaporation	Printing/Publishing	Drying	Dryer	
40500199	Petroleum and Solvent Evaporation	Printing/Publishing	Drying	Dryer	
40500201	Petroleum and Solvent Evaporation	Printing/Publishing	General	Letter Press: 2751	
40500202	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent (Kerosene)	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40500203	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvents (Mineral Solvents)	
40500211	Petroleum and Solvent Evaporation	Printing/Publishing	General	Letter Press: 2751	
40500212	Petroleum and Solvent Evaporation	Printing/Publishing	General	Printing: Letter Press	
40500215	Petroleum and Solvent Evaporation	Printing/Publishing	General	Letterpress: Cleaning Solution	
40500301	Petroleum and Solvent Evaporation	Printing/Publishing	General	Printing: Flexographic	
40500302	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent (Carbitol)	
40500303	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent (Cellosolve)	
40500304	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent (Ethyl Alcohol)	
40500305	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent (Isopropyl Alcohol)	
40500306	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent (n-Propyl Alcohol)	
40500307	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent (Naphtha)	
40500311	Petroleum and Solvent Evaporation	Printing/Publishing	General	Printing: Flexographic	
40500312	Petroleum and Solvent Evaporation	Printing/Publishing	General	Printing: Flexographic	
40500314	Petroleum and Solvent Evaporation	Printing/Publishing	General	Printing: Flexographic: Propyl Alcohol Cleanup	
40500315	Petroleum and Solvent Evaporation	Printing/Publishing	General	Flexographic: Steam: Water-based	
40500316	Petroleum and Solvent Evaporation	Printing/Publishing	General	Flexographic: Steam: Water-based	
40500317	Petroleum and Solvent Evaporation	Printing/Publishing	General	Flexographic: Steam: Water-based	
40500318	Petroleum and Solvent Evaporation	Printing/Publishing	General	Flexographic: Steam: Water-based in Ink	
40500319	Petroleum and Solvent Evaporation	Printing/Publishing	General	Flexographic: Steam: Water-based Ink Storage	
40500401	Petroleum and Solvent Evaporation	Printing/Publishing	General	Lithographic: 2752	
40500411	Petroleum and Solvent Evaporation	Printing/Publishing	General	Lithographic: 2752	
40500412	Petroleum and Solvent Evaporation	Printing/Publishing	General	Lithographic: 2752	
40500413	Petroleum and Solvent Evaporation	Printing/Publishing	General	Lithographic: Isopropyl Alcohol Cleanup	
40500414	Petroleum and Solvent Evaporation	Printing/Publishing	General	Flexographic: Propyl Alcohol Cleanup	
40500415	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Dampening Solution with Alcohol Substitute	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40500416	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Dampening Solution with High Solvent Content	
40500417	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Cleaning Solution: Water-based	
40500418	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Dampening Solution with Isopropyl Alcohol	
40500421	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Heatset Ink Mixing	
40500422	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Heatset Solvent Storage	
40500431	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Nonheated Lithographic Inks	
40500432	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Nonheated Lithographic Inks	
40500433	Petroleum and Solvent Evaporation	Printing/Publishing	General	Offset Lithography: Nonheated Lithographic Inks	
40500501	Petroleum and Solvent Evaporation	Printing/Publishing	General	Gravure: 2754	
40500502	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent: Dimethylformamide	
40500503	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent: Ethyl Acetate	
40500506	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent: Methyl Ethyl Ketone	
40500507	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent: Methyl Isobutyl Ketone	
40500510	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent: Toluene	
40500511	Petroleum and Solvent Evaporation	Printing/Publishing	General	Gravure: 2754	
40500512	Petroleum and Solvent Evaporation	Printing/Publishing	General	Gravure: 2754	
40500513	Petroleum and Solvent Evaporation	Printing/Publishing	General	Gravure: 2754	
40500514	Petroleum and Solvent Evaporation	Printing/Publishing	General	Gravure: Cleanup Solvent	
40500597	Petroleum and Solvent Evaporation	Printing/Publishing	General	Other Not Classified	
40500598	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent: Other Not Specified	
40500599	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Thinning Solvent: Other Not Specified	
40500601	Petroleum and Solvent Evaporation	Printing/Publishing	General	Ink Mixing	
40500701	Petroleum and Solvent Evaporation	Printing/Publishing	General	Solvent Storage	
40500801	Petroleum and Solvent Evaporation	Printing/Publishing	General	Screen Printing	
40500802	Petroleum and Solvent Evaporation	Printing/Publishing	General	Fugitive Emissions: Cleaning Rags	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40500811	Petroleum and Solvent Evaporation	Printing/Publishing	General	Screen Printing	
40500812	Petroleum and Solvent Evaporation	Printing/Publishing	General	Screen Printing	
40588801	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	Specify in Comments Field	
40588802	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	Specify in Comments Field	
40588803	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	Specify in Comments Field	
40588804	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	Specify in Comments Field	
40588805	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	Specify in Comments Field	

Table 3.6-5 Gasoline Distribution Crosswalk for Point Source Subtractions

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2501050120 - Storage and Transport; Petroleum and Petroleum Product Storage; Bulk Terminals: All Evaporative Losses; Gasoline					
40400101	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	
40400102	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	
40400103	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Breathing Loss (67000 Bbl. Capacity) - Fixed Roof Tank	
40400104	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Breathing Loss (250000 Bbl Capacity)-Fixed Roof Tank	
40400105	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Breathing Loss (250000 Bbl Capacity)-Fixed Roof Tank	
40400106	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Breathing Loss (250000 Bbl Capacity) - Fixed Roof Tank	
40400107	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Working Loss (Diam. Independent) - Fixed Roof Tank	
40400108	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Working Loss (Diam. Independent) - Fixed Roof Tank	
40400109	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Working Loss (Diam. Independent) - Fixed Roof Tank	
40400110	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Standing Loss (67000 Bbl Capacity)-Float. Roof Tank	
40400111	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Standing Loss (67000 Bbl Capacity)-Float. Roof Tank	
40400112	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Standing Loss (67000 Bbl Capacity)- Floating Roof Tank	
40400113	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Standing Loss (250000 Bbl Cap.) - Floating Roof Tank	
40400114	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Standing Loss (250000 Bbl Cap.) - Floating Roof Tank	
40400115	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Standing Loss (250000 Bbl Cap.) - Floating Roof Tank	
40400116	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13/10/7: Withdrawal Loss (67000 Bbl Cap.) - Float Rf Tnk	
40400117	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13/10/7: Withdrawal Loss (250000 Bbl Cap.) - Float Rf Tnk	
40400118	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	
40400119	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	
40400120	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	
40400131	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Standing Loss - Ext. Floating Roof w/ Primary Seal	
40400132	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Standing Loss - Ext. Floating Roof w/ Primary Seal	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40400133	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Standing Loss - External Floating Roof w/ Primary Seal	
40400141	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Standing Loss - Ext. Floating Roof w/ Secondary Seal	
40400142	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Standing Loss - Ext. Floating Roof w/ Secondary Seal	
40400143	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Standing Loss - Ext. Floating Roof w/ Secondary Seal	
40400148	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13/10/7: Withdrawal Loss - Ext. Float Roof (Pri/Sec Seal)	
40400150	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Miscellaneous Losses/Leaks: Loading Racks	
40400151	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Valves, Flanges, and Pumps	
40400152	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Vapor Collection Losses	
40400153	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Vapor Control Unit Losses	
40400161	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Standing Loss - Int. Floating Roof w/ Primary Seal	
40400162	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Standing Loss - Int. Floating Roof w/ Primary Seal	
40400163	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Standing Loss - Internal Floating Roof w/ Primary Seal	
40400171	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13: Standing Loss - Int. Floating Roof w/ Secondary Seal	
40400172	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 10: Standing Loss - Int. Floating Roof w/ Secondary Seal	
40400173	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 7: Standing Loss - Int. Floating Roof w/ Secondary Seal	
40400178	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Gasoline RVP 13/10/7: Withdrawal Loss - Int. Float Roof (Pri/Sec Seal)	
2501055120 - Storage and Transport; Petroleum and Petroleum Product Storage; Bulk Plants: All Evaporative Losses; Gasoline					
40400201	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	
40400202	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	
40400203	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Breathing Loss (67000 Bbl. Capacity) - Fixed Roof Tank	
40400204	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank	
40400205	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank	
40400206	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank	
40400207	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Standing Loss (67000 Bbl Cap.) - Floating Roof Tank	
40400208	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Standing Loss (67000 Bbl Cap.) - Floating Roof Tank	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40400209	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Standing Loss (67000 Bbl Cap.) - Floating Roof Tank	
40400210	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13/10/7: Withdrawal Loss (67000 Bbl Cap.) - Float Rf Tnk	
40400211	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	
40400212	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	
40400213	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	
40400231	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Standing Loss - Ext. Floating Roof w/ Primary Seal	
40400232	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Standing Loss - Ext. Floating Roof w/ Primary Seal	
40400233	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Standing Loss - External Floating Roof w/ Primary Seal	
40400241	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Standing Loss - Ext. Floating Roof w/ Secondary Seal	
40400242	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Standing Loss - Ext. Floating Roof w/ Secondary Seal	
40400243	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Standing Loss - Ext. Floating Roof w/ Secondary Seal	
40400248	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10/13/7: Withdrawal Loss - Ext. Float Roof (Pri/Sec Seal)	
40400250	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Loading Racks	
40400251	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Valves, Flanges, and Pumps	
40400252	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Miscellaneous Losses/Leaks: Vapor Collection Losses	
40400253	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Miscellaneous Losses/Leaks: Vapor Control Unit Losses	
40400261	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Standing Loss - Int. Floating Roof w/ Primary Seal	
40400262	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Standing Loss - Int. Floating Roof w/ Primary Seal	
40400263	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Standing Loss - Internal Floating Roof w/ Primary Seal	
40400271	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 13: Standing Loss - Int. Floating Roof w/ Secondary Seal	
40400272	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10: Standing Loss - Int. Floating Roof w/ Secondary Seal	
40400273	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 7: Standing Loss - Int. Floating Roof w/ Secondary Seal	
40400278	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Gasoline RVP 10/13/7: Withdrawal Loss - Int. Float Roof (Pri/Sec Seal)	
40400401	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Petrol Prods - Undergrd Tanks	Gasoline RVP 13: Breathing Loss	
40400402	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Petrol Prods - Undergrd Tanks	Gasoline RVP 13: Working Loss	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40400403	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Petrol Prods - Undergrd Tanks	Gasoline RVP 10: Breathing Loss	
40400404	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Petrol Prods - Undergrd Tanks	Gasoline RVP 10: Working Loss	
40400405	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Petrol Prods - Undergrd Tanks	Gasoline RVP 7: Breathing Loss	
40400406	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Petrol Prods - Undergrd Tanks	Gasoline RVP 7: Working Loss	
40600101	Petroleum and Solvent Evaporation	Transport. & Marketing of Petrol Product	Tank Cars/Trucks	Gasoline: Splash Loading **	
40600126	Petroleum and Solvent Evaporation	Transport. & Marketing of Petrol Product	Tank Cars/Trucks	Gasoline: Submerged Loading **	
40600131	Petroleum and Solvent Evaporation	Transport. & Marketing of Petrol Product	Tank Cars/Trucks	Gasoline: Submerged Loading (Normal Service)	
40600136	Petroleum and Solvent Evaporation	Transport. & Marketing of Petrol Product	Tank Cars/Trucks	Gasoline: Splash Loading (Normal Service)	
40600141	Petroleum and Solvent Evaporation	Transport. & Marketing of Petrol Product	Tank Cars/Trucks	Gasoline: Submerged Loading (Balanced Service)	
40600144	Petroleum and Solvent Evaporation	Transport. & Marketing of Petrol Product	Tank Cars/Trucks	Gasoline: Splash Loading (Balanced Service)	
40600147	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Tank Cars/Trucks	Gasoline: Submerged Loading (Clean Tanks)	
2501060051 - Storage and Transport; Petroleum and Petroleum Product Storage; Gasoline Service Stations; Stage 1: Submerged Filling					
40600302	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Submerged Filling w/o Controls	
40600305	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Unloading **	Emissions from SCC 40600305 allocated to 2501060051, 2501060052, and 2501060053 based on proportion of total emissions for these SCCs.
40600399	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Not Classified **	Emissions from SCC 40600399 allocated to 2501060051, 2501060052, and 2501060053 based on proportion of total emissions for these SCCs.
40600702	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Consumer (Corporate) Fleet Refueling - Stage I	Submerged Filling w/o Controls	
2501060052 - Storage and Transport; Petroleum and Petroleum Product Storage; Gasoline Service Stations; Stage 1: Splash Filling					
40600301	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Splash Filling	
40600305	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Unloading **	Emissions from SCC 40600305 allocated to 2501060051, 2501060052, and 2501060053 based on proportion of total emissions for these SCCs.

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40600399	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Not Classified **	Emissions from SCC 40600399 allocated to 2501060051, 2501060052, and 2501060053 based on proportion of total emissions for these SCCs.
40600701	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Consumer (Corporate) Fleet Refueling - Stage I	Splash Filling	
2501060053 - Storage and Transport; Petroleum and Petroleum Product Storage; Gasoline Service Stations; Stage 1: Balanced Submerged Filling					
40600305	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Unloading **	Emissions from SCC 40600305 allocated to 2501060051, 2501060052, and 2501060053 based on proportion of total emissions for these SCCs.
40600306	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Balanced Submerged Filling	
40600399	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Not Classified **	Emissions from SCC 40600399 allocated to 2501060051, 2501060052, and 2501060053 based on proportion of total emissions for these SCCs.
40600706	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Consumer (Corporate) Fleet Refueling - Stage I	Balanced Submerged Filling	
2501060100 - Storage and Transport; Petroleum and Petroleum Product Storage; Gasoline Service Stations; Stage 2: Total					
40600401	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Filling Vehicle Gas Tanks - Stage II	Vapor Loss w/o Controls	
40600402	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Filling Vehicle Gas Tanks - Stage II	Liquid Spill Loss w/o Controls	
40600403	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Filling Vehicle Gas Tanks - Stage II	Vapor Loss w/o Controls	
40600499	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Filling Vehicle Gas Tanks - Stage II	Not Classified **	
40600601	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Consumer (Corporate) Fleet Refueling - Stage II	Vapor Loss w/o Controls	
40600602	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Consumer (Corporate) Fleet Refueling - Stage II	Liquid Spill Loss w/o Controls	
40600603	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Consumer (Corporate) Fleet Refueling - Stage II	Vapor Loss w/controls	
2501060201 – Storage and Transport; Petroleum and Petroleum Product Transport; Gasoline Service Stations; Underground Tank: Breathing and Emptying					
40600307	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Gasoline Retail Operations - Stage I	Underground Tank Breathing and Emptying	

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
40600707	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Consumer (Corporate) Fleet Refueling - Stage I	Underground Tank Breathing and Emptying	
2505030120 - Storage and Transport; Petroleum and Petroleum Product Transport; Truck; Gasoline					
40400154	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	Tank Truck Vapor Leaks	
40400254	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	Tank Truck Vapor Losses	
40600162	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Tank Cars and Trucks	Gasoline: Loaded with Fuel (Transit Losses)	
40600163	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Tank Cars and Trucks	Gasoline: Return with Vapor (Transit Losses)	

Table 3.6-6 Agriculture Production Crosswalk for Livestock

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2805001100 - Miscellaneous Area Sources; Agriculture Production – Livestock; Beef cattle - finishing operations on feedlots (drylots); Confinement					
30202001	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
30202002	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
2805001200 - Miscellaneous Area Sources; Agriculture Production – Livestock; Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage					
30202001	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
30202002	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
2805001300 - Miscellaneous Area Sources; Agriculture Production – Livestock; Beef cattle - finishing operations on feedlots (drylots); Land application of manure					
30202001	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
30202002	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
2805003100 - Miscellaneous Area Sources; Agriculture Production – Livestock; Beef cattle - finishing operations on pasture/range; Confinement					
30202001	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
30202002	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Feedlots: General	Apportion between nonpoint SCCs based on CMU Model output
2805007100 - Miscellaneous Area Sources; Agriculture Production – Livestock; Poultry production - layers with dry manure management systems; Confinement					
30202101	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Dry	Apportion between nonpoint SCCs based on CMU Model output
30202102	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Dry	Apportion between nonpoint SCCs based on CMU Model output
2805007300 - Miscellaneous Area Sources; Agriculture Production – Livestock; Poultry production - layers with dry manure management systems; Land application of manure					
30202101	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Dry	Apportion between nonpoint SCCs based on CMU Model output
30202102	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Dry	Apportion between nonpoint SCCs based on CMU Model output
2805008100 - Miscellaneous Area Sources; Agriculture Production – Livestock; Poultry production - layers with wet manure management systems; Confinement					
30202105	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Wet	Apportion between nonpoint SCCs based on CMU Model output
30202106	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Wet	Apportion between nonpoint SCCs based on CMU Model output
2805008200 - Miscellaneous Area Sources; Agriculture Production – Livestock; Poultry production - layers with wet manure management systems; Manure handling and storage					
30202105	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Wet	Apportion between nonpoint SCCs based on CMU Model output
30202106	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Wet	Apportion between nonpoint SCCs based on CMU Model output

Point SCC	SCC1 DESC	SCC3 DESC	SCC6 DESC	SCC8 DESC	Comments
2805008300 - Miscellaneous Area Sources; Agriculture Production – Livestock; Poultry production - layers with wet manure management systems; Land application of manure					
30202105	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Wet	Apportion between nonpoint SCCs based on CMU Model output
30202106	Industrial Processes	Food and Agriculture	Eggs and Poultry Production	Manure Handling: Wet	Apportion between nonpoint SCCs based on CMU Model output
2805039100 - Miscellaneous Area Sources; Agriculture Production – Livestock; Swine production - operations with lagoons (unspecified animal age); Confinement					
30202000	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Swine Feedlots	Apportion between nonpoint SCCs based on CMU Model output
2805039200 - Miscellaneous Area Sources; Agriculture Production – Livestock; Swine production - operations with lagoons (unspecified animal age); Manure handling and storage					
30202000	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Swine Feedlots	Apportion between nonpoint SCCs based on CMU Model output
2805039300 - Miscellaneous Area Sources; Agriculture Production – Livestock; Swine production – deep-pit house operations (unspecified animal age); Land application of manure					
30202000	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Swine Feedlots	Apportion between nonpoint SCCs based on CMU Model output
2805047100 – Miscellaneous Area Sources; Agriculture Production – Livestock; Swine Production – deep-pit operations (unspecified animal age); Confinement					
30202000	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Swine Feedlots	Apportion between nonpoint SCCs based on CMU Model output
2805047300 – Miscellaneous Area Sources; Agriculture Production – Livestock; Swine Production – deep-pit operations (unspecified animal age); Land application of manure					
30202000	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Swine Feedlots	Apportion between nonpoint SCCs based on CMU Model output
2805053100 – Miscellaneous Area Sources; Agriculture Production – Livestock; Swine Production – outdoor operations (unspecified animal age); Confinement					
30202000	Industrial Processes	Food and Agriculture	Beef Cattle Feedlots	Swine Feedlots	Apportion between nonpoint SCCs based on CMU Model output

4.0 AREA SOURCE EMISSIONS

The area source categories are presented in the following sections and like source classification codes (SCCs) are grouped together. The sections include methodologies, as appropriate, 2007 SEMAP annual emissions in tons for York County as a whole and for the York NA area, EGAS Growth Factors per SCC, and future year projected emissions in tons per day for the York NA area.

The tons per day emissions were calculated as follow and an example calculation for SCC 2102002000 Industrial Bituminous / Subbituminous Coal Combustion is included with each step.

Step 1:

The York County NO_x and VOC emissions are multiplied by 75.8% to estimate the emissions contained in the York NA area. See Section 2.3 for population calculations.

York County emissions * population allocation % = 2007 York NA Area NO_x
 $61.0728 * 0.758 = 46.2887$ tons (see Table 4.1-1)

Step 2:

The York NA area emissions for NO_x and VOC were multiplied by the yearly EGAS Growth Factors to estimate projected year emissions.

2007 York NA area NO_x * 2010 growth factor = 2010 York NA area NO_x
 $46.2887 * 1.0019087 = 46.3771$ tons (see Table 4.1-3)

Step 3:

The projections were then divided by 365 days per year to estimate tons per day.

2010 York NA area NO_x / 365 = 2010 York NA area NO_x in tons per day
 $46.3771 / 365 = 0.1271$ ton per day (see Table 4.1-4)

4.1 INDUSTRIAL COMBUSTION – VARIOUS FUELS

Table 4.1-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2102001000	Industrial Anthracite Coal combustion	0.0000	0.0000
2102002000	Industrial Bituminous/Subbituminous Coal combustion	61.0728	46.2887
2102004000	Industrial Distillate Oil combustion	0.0000	0.0000
2102005000	Industrial Residual Oil combustion	0.0000	0.0000
2102006000	Industrial Natural Gas combustion	41.9323	31.7816
2102007000	Industrial LPG combustion	0.0000	0.0000
2102008000	Industrial Wood combustion	116.8404	88.5564
2102011000	Industrial Kerosene combustion	0.1119	0.0848

Table 4.1-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2102001000	Industrial Anthracite Coal combustion	0.0000	0.0000

Table 4.1-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2102002000	Industrial Bituminous/Subbituminous Coal combustion	0.2776	0.2104
2102004000	Industrial Distillate Oil combustion	0.0000	0.0000
2102005000	Industrial Residual Oil combustion	0.0000	0.0000
2102006000	Industrial Natural Gas combustion	2.3063	1.7480
2102007000	Industrial LPG combustion	0.0036	0.0027
2102008000	Industrial Wood combustion	9.0286	6.8430
2102011000	Industrial Kerosene combustion	0.0011	0.0008

Table 4.1-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2102001000	Industrial Anthracite Coal combustion	1.0019087	1.0130962	1.0196651	1.0298311	1.0390784
2102002000	Industrial Bituminous/Subbituminous Coal combustion	1.0019087	1.0130962	1.0196651	1.0298311	1.0390784
2102004000	Industrial Distillate Oil combustion	1.0103458	1.0674235	1.1107373	1.149713	1.1987727
2102005000	Industrial Residual Oil combustion	0.9812254	1.0427848	1.0758221	1.0936196	1.1230475
2102006000	Industrial Natural Gas combustion	1.044185	1.0655792	1.0960674	1.1523066	1.1941512
2102007000	Industrial LPG combustion	1.0275118	1.0795778	1.11516	1.1673456	1.2108057
2102008000	Industrial Wood combustion	1.0516458	1.1235064	1.1815856	1.2373375	1.2890193
2102011000	Industrial Kerosene combustion	0.9805529	1.0573241	1.1029972	1.1476099	1.2009251

Table 4.1-4 Projected NO_x Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area NO _x	2013 NA Area NO _x	2016 NA Area NO _x	2019 NA Area NO _x	2022 NA Area NO _x
2102001000	Industrial Anthracite Coal combustion	0.0000	0.0000	0.0000	0.0000	0.0000
2102002000	Industrial Bituminous/Subbituminous Coal combustion	0.1271	0.1285	0.1293	0.1306	0.1318
2102004000	Industrial Distillate Oil combustion	0.0000	0.0000	0.0000	0.0000	0.0000
2102005000	Industrial Residual Oil combustion	0.0000	0.0000	0.0000	0.0000	0.0000
2102006000	Industrial Natural Gas combustion	0.0909	0.0928	0.0954	0.1003	0.1040
2102007000	Industrial LPG combustion	0.0000	0.0000	0.0000	0.0000	0.0000
2102008000	Industrial Wood combustion	0.2552	0.2726	0.2867	0.3002	0.3127
2102011000	Industrial Kerosene combustion	0.0002	0.0002	0.0003	0.0003	0.0003

Table 4.1-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2102001000	Industrial Anthracite Coal combustion	0.0000	0.0000	0.0000	0.0000	0.0000

Table 4.1-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2102002000	Industrial Bituminous/Subbituminous Coal combustion	0.0006	0.0006	0.0006	0.0006	0.0006
2102004000	Industrial Distillate Oil combustion	0.0000	0.0000	0.0000	0.0000	0.0000
2102005000	Industrial Residual Oil combustion	0.0000	0.0000	0.0000	0.0000	0.0000
2102006000	Industrial Natural Gas combustion	0.0050	0.0051	0.0052	0.0055	0.0057
2102007000	Industrial LPG combustion	0.0000	0.0000	0.0000	0.0000	0.0000
2102008000	Industrial Wood combustion	0.0197	0.0211	0.0222	0.0232	0.0242
2102011000	Industrial Kerosene combustion	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 COMMERCIAL INSTITUTIONAL COMBUSTION – VARIOUS FUELS**Table 4.2-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area**

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2103001000	Commercial/Inst Anthracite Coal combustion_all combustor types	0.0000	0.0000
2103002000	Commercial/Inst Subbituminous_Bituminous Coal combustion_all combustor types	0.0000	0.0000
2103004000	Commercial/Inst Distillate Oil combustion_all combustor types	0.5928	0.4493
2103005000	Commercial/Inst Residual Oil combustion_all combustor types	0.6703	0.5080
2103006000	Commercial/Inst Natural Gas combustion_all combustor types	39.3083	29.7928
2103007000	Commercial/Inst LPC combustions_all combustor types	1.9818	1.5021
2103008000	Commercial/Inst Wood combustions_all combustor types	4.4925	3.4050
2103011000	Commercial/Inst Kerosene combustions_all combustor types	0.3012	0.2283

Table 4.2-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2103001000	Commercial/Inst Anthracite Coal combustion_all combustor types	0.0000	0.0000
2103002000	Commercial/Inst Subbituminous_Bituminous Coal combustion_all combustor types	0.0000	0.0000
2103004000	Commercial/Inst Distillate Oil combustion_all combustor types	0.5928	0.4493
2103005000	Commercial/Inst Residual Oil combustion_all combustor types	0.6703	0.5080
2103006000	Commercial/Inst Natural Gas combustion_all combustor types	39.3083	29.7928
2103007000	Commercial/Inst LPC combustions_all combustor types	1.9818	1.5021
2103008000	Commercial/Inst Wood combustions_all combustor types	4.4925	3.4050
2103011000	Commercial/Inst Kerosene combustions_all combustor types	0.3012	0.2283

Table 4.2-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2103001000	Commercial/Inst Anthracite Coal combustion_all combustor types	1.0002139	0.9980098	0.9988168	0.9977375	0.998174
2103002000	Commercial/Inst Subbituminous_Bituminous Coal combustion_all combustor types	1.0002139	0.9980098	0.9988168	0.9977375	0.998174
2103004000	Commercial/Inst Distillate Oil combustion_all combustor types	1.0550058	1.1046861	1.1538254	1.2022307	1.2490972
2103005000	Commercial/Inst Residual Oil combustion_all combustor types	1.0174214	1.0274699	1.0462816	1.0700256	1.0789211
2103006000	Commercial/Inst Natural Gas combustion_all combustor types	1.1015962	1.1689546	1.2187432	1.3345065	1.4136523
2103007000	Commercial/Inst LPC combustions_all combustor types	1.0288266	1.0316362	1.0489836	1.0726491	1.080313
2103008000	Commercial/Inst Wood combustions_all combustor types	1	1	1	1.0000001	1.000001
2103011000	Commercial/Inst Kerosene combustions_all combustor types	1.040444	1.0462543	1.0656792	1.0931009	1.101481

Table 4.2-4 Projected NO_x Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area NO _x	2013 NA Area NO _x	2016 NA Area NO _x	2019 NA Area NO _x	2022 NA Area NO _x
2103001000	Commercial/Inst Anthracite Coal combustion_all combustor types	0.0000	0.0000	0.0000	0.0000	0.0000
2103002000	Commercial/Inst Subbituminous_Bituminous Coal combustion_all combustor types	0.0000	0.0000	0.0000	0.0000	0.0000
2103004000	Commercial/Inst Distillate Oil combustion_all combustor types	0.0013	0.0014	0.0014	0.0015	0.0015
2103005000	Commercial/Inst Residual Oil combustion_all combustor types	0.0014	0.0014	0.0015	0.0015	0.0015
2103006000	Commercial/Inst Natural Gas combustion_all combustor types	0.0899	0.0954	0.0995	0.1089	0.1154
2103007000	Commercial/Inst LPC combustions_all combustor types	0.0042	0.0042	0.0043	0.0044	0.0044
2103008000	Commercial/Inst Wood combustions_all combustor types	0.0093	0.0093	0.0093	0.0093	0.0093
2103011000	Commercial/Inst Kerosene combustions_all combustor types	0.0007	0.0007	0.0007	0.0007	0.0007

Table 4.2-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2103001000	Commercial/Inst Anthracite Coal combustion_all combustor types	0.0000	0.0000	0.0000	0.0000	0.0000
2103002000	Commercial/Inst Subbituminous_Bituminous Coal combustion_all combustor types	0.0000	0.0000	0.0000	0.0000	0.0000
2103004000	Commercial/Inst Distillate Oil combustion_all combustor types	0.0000	0.0000	0.0000	0.0000	0.0000
2103005000	Commercial/Inst Residual Oil combustion_all combustor types	0.0000	0.0000	0.0000	0.0000	0.0000
2103006000	Commercial/Inst Natural Gas combustion_all combustor types	0.0049	0.0052	0.0055	0.0060	0.0063
2103007000	Commercial/Inst LPC combustions_all combustor types	0.0002	0.0002	0.0002	0.0002	0.0002
2103008000	Commercial/Inst Wood combustions_all combustor types	0.0007	0.0007	0.0007	0.0007	0.0007
2103011000	Commercial/Inst Kerosene combustions_all combustor types	0.0000	0.0000	0.0000	0.0000	0.0000

4.3 RESIDENTIAL COMBUSTION – VARIOUS FUELS

Residential NG and LPG usage is influenced strongly by seasonal temperatures. During the summer months usage will generally be for cooking and operating appliances, such as water heaters and clothes dryers. It was assumed that during the summer months no residential oil, coal, or wood were used since these are normally used only for residential heating. Emissions for these activities (oil, coal, and wood) have been marked as “n/a” (not applicable) in the daily tables; for reference the 2007 SEMAP emissions and corresponding growth factors have been retained.

Table 4.3-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2104001000	Residential Anthracite Coal combustion_all combustor types	0.0001	0.0001
2104002000	Residential Bituminous/Subbituminous Coal combustion_all combustor types	0.0000	0.0000
2104004000	Residential Distillate Oil combustion_all combustor types	3.3196	2.5160
2104006000	Residential Natural Gas combustion_all combustor types	71.9428	54.5274
2104007000	Residential LPG combustion_all combustor types	11.8800	9.0042
2104008100	Residential woodwaste combustion_fireplace_general	3.3634	2.5492
2104008210	Residential Wood Combustion_woodstove_fireplace inserts_non EPA certified	4.4936	3.4058
2104008220	Residential wood combustion_woodstove_fireplace inserts_EPA certified_nocatalytic	1.1745	0.8902

Table 4.3-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2104008230	Residential wood combustion_woodstove_fireplace inserts_EPA certified_catalytic	0.3434	0.2603
2104008310	Residential Wood Combustion_woodstove_freestanding_non EPA certified	2.0016	1.5171
2104008320	Residential Wood Combustion_woodstove_freestanding_EPA certified_noncatalytic	0.5226	0.3961
2104008330	Residential Wood Combustion_woodstove_freestanding_EPA certified_catalytic	0.1536	0.1164
2104008400	Residential Wood Combustion_woodstove_pellet fired_general	0.1997	0.1513
2104008610	Residential Wood combustion_hydrionic heater_outdoor	0.0176	0.0133
2104009000	Residential Firelog Combustion_All combustor types	1.1335	0.8591
2104011000	Residential Kerosene Combustion_all heater types	3.5795	2.7130

Table 4.3-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2104001000	Residential Anthracite Coal combustion_all combustor types	0.0004	0.0003
2104002000	Residential Bituminous/Subbituminous Coal combustion_all combustor types	0.0000	0.0000
2104004000	Residential Distillate Oil combustion_all combustor types	0.1291	0.0978
2104006000	Residential Natural Gas combustion_all combustor types	4.2094	3.1904
2104007000	Residential LPG combustion_all combustor types	0.4625	0.3506
2104008100	Residential woodwaste combustion_fireplace_general	24.4495	18.5309
2104008210	Residential Wood Combustion_woodstove_fireplace inserts_non EPA certified	85.0570	64.4669
2104008220	Residential wood combustion_woodstove_fireplace inserts_EPA certified_noncatalytic	6.1818	4.6854
2104008230	Residential wood combustion_woodstove_fireplace inserts_EPA certified_catalytic	2.5758	1.9522
2104008310	Residential Wood Combustion_woodstove_freestanding_non EPA certified	37.8883	28.7166
2104008320	Residential Wood Combustion_woodstove_freestanding_EPA certified_noncatalytic	2.7508	2.0849
2104008330	Residential Wood Combustion_woodstove_freestanding_EPA certified_catalytic	1.1518	0.8730
2104008400	Residential Wood Combustion_woodstove_pellet fired_general	0.0022	0.0016
2104008610	Residential Wood combustion_hydrionic heater_outdoor	0.1125	0.0853
2104009000	Residential Firelog Combustion_All combustor types	5.8355	4.4229
2104011000	Residential Kerosene Combustion_all heater types	0.1392	0.1055

Table 4.3-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2104001000	Residential Anthracite Coal combustion_all combustor types	0.9795741	0.9607694	0.9454931	0.9253539	0.9080965
2104002000	Residential Bituminous/Subbituminous Coal combustion_all combustor types	0.9795741	0.9607694	0.9454931	0.9253539	0.9080965
2104004000	Residential Distillate Oil combustion_all combustor types	0.9651194	0.9282192	0.8822443	0.8168865	0.7503004

Table 4.3-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2104006000	Residential Natural Gas combustion_all combustor types	1.066445	1.1145762	1.1621774	1.2105268	1.2597065
2104007000	Residential LPG combustion_all combustor types	1.0400987	1.0788434	1.1205342	1.1564158	1.1921602
2104008000	Residential Wood Combustion All Types	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008100*	Residential woodwaste combustion_fireplace_general	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008210*	Residential Wood Combustion_woodstove_fireplace inserts_non EPA certified	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008220*	Residential wood combustion_woodstove_fireplace inserts_EPA certified_noncatalytic	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008230*	Residential wood combustion_woodstove_fireplace inserts_EPA certified_catalytic	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008310*	Residential Wood Combustion_woodstove_freestanding_non EPA certified	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008320*	Residential Wood Combustion_woodstove_freestanding_EPA certified_noncatalytic	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008330*	Residential Wood Combustion_woodstove_freestanding_EPA certified_catalytic	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008400*	Residential Wood Combustion_woodstove_pellet fired_general	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104008610*	Residential Wood combustion_hydrionic heater_outdoor	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104009000	Residential Firelog Combustion_All combustor types	1.0026268	1.0067803	1.0129209	1.0128825	1.0153902
2104011000	Residential Kerosene Combustion_all heater types	0.987626	0.9709251	0.9459068	0.901049	0.8568079

*SCCs 2104008100 - 2104008610 were not in EGAS so SCC 2104008000 was used as representative as all of the 2104008 series SCCs has the same growth factors.

Table 4.3-4 Projected NO_x Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area NO _x	2013 NA Area NO _x	2016 NA Area NO _x	2019 NA Area NO _x	2022 NA Area NO _x
2104001000	Residential Anthracite Coal combustion_all combustor types	n/a	n/a	n/a	n/a	n/a
2104002000	Residential Bituminous/Subbituminous Coal combustion_all combustor types	n/a	n/a	n/a	n/a	n/a
2104004000	Residential Distillate Oil combustion_all combustor types	n/a	n/a	n/a	n/a	n/a
2104006000	Residential Natural Gas combustion_all combustor types	0.1593	0.1665	0.1736	0.1808	0.1882
2104007000	Residential LPG combustion_all combustor types	0.0257	0.0266	0.0276	0.0285	0.0294
2104008100	Residential woodwaste combustion_fireplace_general	n/a	n/a	n/a	n/a	n/a
2104008210	Residential Wood Combustion_woodstove_fireplace inserts_non EPA certified	n/a	n/a	n/a	n/a	n/a

Table 4.3-4 Projected NO_x Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area NO _x	2013 NA Area NO _x	2016 NA Area NO _x	2019 NA Area NO _x	2022 NA Area NO _x
2104008220	Residential wood combustion_woodstove_fireplace inserts_EPA certified_noncatalytic	n/a	n/a	n/a	n/a	n/a
2104008230	Residential wood combustion_woodstove_fireplace inserts_EPA certified_catalytic	n/a	n/a	n/a	n/a	n/a
2104008310	Residential Wood Combustion_woodstove_freestanding_non EPA certified	n/a	n/a	n/a	n/a	n/a
2104008320	Residential Wood Combustion_woodstove_freestanding_EPA certified_noncatalytic	n/a	n/a	n/a	n/a	n/a
2104008330	Residential Wood Combustion_woodstove_freestanding_EPA certified_catalytic	n/a	n/a	n/a	n/a	n/a
2104008400	Residential Wood Combustion_woodstove_pellet fired_general	n/a	n/a	n/a	n/a	n/a
2104008610	Residential Wood combustion_hydraulic heater_outdoor	n/a	n/a	n/a	n/a	n/a
2104009000	Residential Firelog Combustion_All combustor types	n/a	n/a	n/a	n/a	n/a
2104011000	Residential Kerosene Combustion_all heater types	n/a	n/a	n/a	n/a	n/a

Table 4.3-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2104001000	Residential Anthracite Coal combustion_all combustor types	n/a	n/a	n/a	n/a	n/a
2104002000	Residential Bituminous/Subbituminous Coal combustion_all combustor types	n/a	n/a	n/a	n/a	n/a
2104004000	Residential Distillate Oil combustion_all combustor types	n/a	n/a	n/a	n/a	n/a
2104006000	Residential Natural Gas combustion_all combustor types	0.0093	0.0097	0.0102	0.0106	0.0110
2104007000	Residential LPG combustion_all combustor types	0.0010	0.0010	0.0011	0.0011	0.0011
2104008100	Residential woodwaste combustion_fireplace_general	n/a	n/a	n/a	n/a	n/a
2104008210	Residential Wood Combustion_woodstove_fireplace inserts_non EPA certified	n/a	n/a	n/a	n/a	n/a
2104008220	Residential wood combustion_woodstove_fireplace inserts_EPA certified_noncatalytic	n/a	n/a	n/a	n/a	n/a
2104008230	Residential wood combustion_woodstove_fireplace inserts_EPA certified_catalytic	n/a	n/a	n/a	n/a	n/a

Table 4.3-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2104008310	Residential Wood Combustion_woodstove_freestanding_non EPA certified	n/a	n/a	n/a	n/a	n/a
2104008320	Residential Wood Combustion_woodstove_freestanding_EPA certified_noncatalytic	n/a	n/a	n/a	n/a	n/a
2104008330	Residential Wood Combustion_woodstove_freestanding_EPA certified_catalytic	n/a	n/a	n/a	n/a	n/a
2104008400	Residential Wood Combustion_woodstove_pellet fired_general	n/a	n/a	n/a	n/a	n/a
2104008610	Residential Wood combustion_hydraulic heater_outdoor	n/a	n/a	n/a	n/a	n/a
2104009000	Residential Firelog Combustion_All combustor types	n/a	n/a	n/a	n/a	n/a
2104011000	Residential Kerosene Combustion_all heater types	n/a	n/a	n/a	n/a	n/a

4.4 COMMERCIAL COOKING – CHARBROILING

Table 4.4-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2302002200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Under-fired Charbroiling	0.0000	0.0000

Table 4.4-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2302002100	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Conveyorized Charbroiling	1.2572	0.9529
2302002200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Under-fired Charbroiling	4.3256	3.2785
2302003000	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Deep Fat Frying	1.3148	0.9965
2302003100	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Flat Griddle Frying	0.6198	0.4697

Table 4.4-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2302003200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Clamshell Griddle Frying	0.0241	0.0183

Table 4.4-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2302002100	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Conveyorized Charbroiling	1.060277	1.118245	1.169515	1.213395	1.259353
2302002200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Under-fired Charbroiling	1.060277	1.118245	1.169515	1.213395	1.259353
2302003000	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Deep Fat Frying	1.060277	1.118245	1.169515	1.213395	1.259353
2302003100	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Flat Griddle Frying	1.060277	1.118245	1.169515	1.213395	1.259353
2302003200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Clamshell Griddle Frying	1.060277	1.118245	1.169515	1.213395	1.259353

Table 4.4-4 Projected NO_x Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area NO _x	2013 NA Area NO _x	2016 NA Area NO _x	2019 NA Area NO _x	2022 NA Area NO _x
2302002200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Under-fired Charbroiling	0.0000	0.0000	0.0000	0.0000	0.0000

Table 4.4-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2302002100	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Conveyorized Charbroiling	0.0028	0.0029	0.0031	0.0032	0.0033
2302002200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Charbroiling_Under-fired Charbroiling	0.0095	0.0100	0.0105	0.0109	0.0113
2302003000	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Deep Fat Frying	0.0029	0.0031	0.0032	0.0033	0.0034
2302003100	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Flat Griddle Frying	0.0014	0.0014	0.0015	0.0016	0.0016
2302003200	Industrial Processes_Food and Kindred Products: SIC 20_Commercial Cooking - Frying_Clamshell Griddle Frying	0.0001	0.0001	0.0001	0.0001	0.0001

4.5 WASTE DISPOSAL, TREATMENT, AND RECOVERY: OPEN BURNING

Table 4.5-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2610000100	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Leaf Species Unspecified	1.7560	1.3309
2610000400	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Brush Species Unspecified	1.4161	1.0733

Table 4.5-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2610000500	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	129.7745	98.3596
2610030000	Waste Disposal, Treatment, and Recovery_Open Burning_Residential_Household Waste (use 26-10-000-xxx for Yard Wastes)	39.1717	29.6893

Table 4.5-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2610000100	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Leaf Species Unspecified	7.9304	6.0106
2610000400	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Brush Species Unspecified	5.3813	4.0786
2610000500	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	301.0769	228.1942
2610030000	Waste Disposal, Treatment, and Recovery_Open Burning_Residential_Household Waste (use 26-10-000-xxx for Yard Wastes)	55.8850	42.3567

Table 4.5-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2610000100	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Leaf Species Unspecified	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2610000400	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Brush Species Unspecified	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2610000500	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017

Table 4.5-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2610030000	Waste Disposal, Treatment, and Recovery_Open Burning_Residential_Household Waste (use 26-10-000-xxx for Yard Wastes)	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017

Table 4.5-4 Projected NO_x Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area NO _x	2013 NA Area NO _x	2016 NA Area NO _x	2019 NA Area NO _x	2022 NA Area NO _x
2610000100	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Leaf Species Unspecified	0.0038	0.0039	0.0041	0.0042	0.0044
2610000400	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Brush Species Unspecified	0.0031	0.0032	0.0033	0.0034	0.0035
2610000500	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	0.2797	0.2903	0.3013	0.3121	0.3224
2610030000	Waste Disposal, Treatment, and Recovery_Open Burning_Residential_Household Waste (use 26-10-000-xxx for Yard Wastes)	0.0844	0.0876	0.0910	0.0942	0.0973

Table 4.5-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2610000100	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Leaf Species Unspecified	0.0171	0.0177	0.0184	0.0191	0.0197
2610000400	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Yard Waste - Brush Species Unspecified	0.0116	0.0120	0.0125	0.0129	0.0134
2610000500	Waste Disposal, Treatment, and Recovery_Open Burning_All Categories_Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	0.6488	0.6736	0.6991	0.7241	0.7480

Table 4.5-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2610030000	Waste Disposal, Treatment, and Recovery_Open Burning_Residential_Household Waste (use 26-10-000-xxx for Yard Wastes)	0.1204	0.1250	0.1298	0.1344	0.1388

4.6 MISCELLANEOUS COMBUSTION – STRUCTURE FIRES**Table 4.6-1 NO_x Emissions (ton per year) for York County and the York Nonattainment Area**

SCC	SCC Description	2007 York County NO _x	2007 NA Area NO _x
2810030000	Miscellaneous Area Sources_Other Combustion_Structure Fires_Unspecified	0.2696	0.2043

Table 4.6-2 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2810030000	Miscellaneous Area Sources_Other Combustion_Structure Fires_Unspecified	2.0744	1.5723

Table 4.6-3 EGAS Growth Factors

SCC	SCC Description	2010	2013	2016	2019	2022
2810030000	Miscellaneous Area Sources_Other Combustion_Structure Fires_Unspecified	1.0686345	1.1023905	1.1303959	1.1582406	1.1833066

Table 4.6-4 Projected NO_x Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area NO _x	2013 NA Area NO _x	2016 NA Area NO _x	2019 NA Area NO _x	2022 NA Area NO _x
2810030000	Miscellaneous Area Sources_Other Combustion_Structure Fires_Unspecified	0.0006	0.0006	0.0006	0.0006	0.0007

Table 4.6-5 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2810030000	Miscellaneous Area Sources_Other Combustion_Structure Fires_Unspecified	0.0046	0.0047	0.0049	0.0050	0.0051

4.7 SOLVENT UTILIZATION: SURFACE COATING – VARIOUS PROCESSES

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.7-1 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2401001000	Solvent Utilization_Surface Coating_Architectural Coatings_Total: All Solvent Types	314.9316	238.6950
2401005000	Solvent Utilization_Surface Coating_Auto Refinishing: SIC 7532_Total: All Solvent Types	38.3145	29.0396
2401008000	Solvent Utilization_Surface Coating_Traffic Markings_Total: All Solvent Types	20.2716	15.3643
2401015000	Solvent Utilization_Surface Coating_Factory Finished Wood: SIC 2426 thru 242_Total: All Solvent Types	1.5581	1.1809
2401020000	Solvent Utilization_Surface Coating_Wood Furniture: SIC 25_Total: All Solvent Types	7.3693	5.5854
2401025000	Solvent Utilization_Surface Coating_Metal Furniture: SIC 25_Total: All Solvent Types	1.4606	1.1070
2401030000	Solvent Utilization_Surface Coating_Paper: SIC 26_Total: All Solvent Types	1.8779	1.4233

Table 4.7-1 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2401040000	Solvent Utilization_Surface Coating_Metal Cans: SIC 341_Total: All Solvent Types	0.0000	0.0000
2401045000	Solvent Utilization_Surface Coating_Metal Coils: SIC 3498_Total: All Solvent Types	0.0000	0.0000
2401055000	Solvent Utilization_Surface Coating_Machinery and Equipment: SIC 35_Total: All Solvent Types	8.2453	6.2493
2401060000	Solvent Utilization_Surface Coating_Large Appliances: SIC 363_Total: All Solvent Types	0.9267	0.7024
2401065000	Solvent Utilization_Surface Coating_Electronic and Other Electrical: SIC 36 - 363_Total: All Solvent Types	0.1905	0.1444
2401070000	Solvent Utilization_Surface Coating_Motor Vehicles: SIC 371_Total: All Solvent Types	0.0000	0.0000
2401075000	Solvent Utilization_Surface Coating_Aircraft: SIC 372_Total: All Solvent Types	0.0000	0.0000
2401080000	Solvent Utilization_Surface Coating_Marine: SIC 373_Total: All Solvent Types	0.0000	0.0000
2401085000	Solvent Utilization_Surface Coating_Railroad: SIC 374_Total: All Solvent Types	0.0000	0.0000
2401090000	Solvent Utilization_Surface Coating_Miscellaneous Manufacturing_Total: All Solvent Types	9.8743	7.4840
2401100000	Solvent Utilization_Surface Coating_Industrial Maintenance	100.1107	75.8766

Table 4.7-1 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
	Coatings_Total: All Solvent Types		
2401200000	Solvent Utilization_Surface Coating_Other Special Purpose Coatings_Total: All Solvent Types	0.7300	0.5533

Table 4.7-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2401001000	Solvent Utilization_Surface Coating_Architectural Coatings_Total: All Solvent Types	1.0857428	1.1694026	1.2401466	1.3003917	1.352304
2401005000	Solvent Utilization_Surface Coating_Auto Refinishing: SIC 7532_Total: All Solvent Types	1.0634453	1.1235294	1.1819328	1.232353	1.2840337
2401008000	Solvent Utilization_Surface Coating_Traffic Markings_Total: All Solvent Types	1.026616	1.0407387	1.0239	0.9929386	0.9608908
2401015000	Solvent Utilization_Surface Coating_Factory Finished Wood: SIC 2426 thru 242_Total: All Solvent Types	1.0444444	1.0857143	1.1485714	1.2101587	1.2749206
2401020000	Solvent Utilization_Surface Coating_Wood Furniture: SIC 25_Total: All Solvent Types	0.9944522	0.9694868	1.0929265	1.2260749	1.3758669
2401025000	Solvent Utilization_Surface Coating_Metal Furniture: SIC 25_Total: All Solvent Types	0.9944522	0.9694868	1.0929265	1.2260749	1.3758669
2401030000	Solvent Utilization_Surface Coating_Paper: SIC 26_Total: All Solvent Types	0.95704	0.9424201	1.0053982	1.0704004	1.1396761
2401040000	Solvent Utilization_Surface Coating_Metal Cans: SIC 341_Total: All Solvent Types	1.0383505	1.0769072	1.1647422	1.2552577	1.3529897

Table 4.7-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2401045000	Solvent Utilization_Surface Coating_Metal Coils: SIC 3498_Total: All Solvent Types	1.0383505	1.0769072	1.1647422	1.2552577	1.3529897
2401055000	Solvent Utilization_Surface Coating_Machinery and Equipment: SIC 35_Total: All Solvent Types	1.0178169	1.0192505	1.1505222	1.2951055	1.4564817
2401060000	Solvent Utilization_Surface Coating_Large Appliances: SIC 363_Total: All Solvent Types	1.0087184	1.0066841	1.114211	1.2316188	1.3626853
2401065000	Solvent Utilization_Surface Coating_Electronic and Other Electrical: SIC 36 - 363_Total: All Solvent Types	1.0087184	1.0066841	1.114211	1.2316188	1.3626853
2401070000	Solvent Utilization_Surface Coating_Motor Vehicles: SIC 371_Total: All Solvent Types	1.0673162	1.1155005	1.2085031	1.3091232	1.4240922
2401075000	Solvent Utilization_Surface Coating_Aircraft: SIC 372_Total: All Solvent Types	1.0270764	1.0365075	1.1229085	1.207484	1.2932765
2401080000	Solvent Utilization_Surface Coating_Marine: SIC 373_Total: All Solvent Types	1.0270764	1.0365075	1.1229085	1.207484	1.2932765
2401085000	Solvent Utilization_Surface Coating_Railroad: SIC 374_Total: All Solvent Types	1.0650603	1.1277108	1.2120482	1.2915663	1.3783133
2401090000	Solvent Utilization_Surface Coating_Miscellaneous Manufacturing_Total: All Solvent Types	1.049203	1.0838531	1.1607761	1.2460152	1.3402634
2401100000	Solvent Utilization_Surface Coating_Industrial Maintenance Coatings_Total: All Solvent Types	1.0444444	1.0857143	1.1485714	1.2101587	1.2749206

Table 4.7-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2401200000	Solvent Utilization_Surface Coating_Other Special Purpose Coatings_Total: All Solvent Types	0.9717805	0.9608992	1.0237952	1.0900395	1.1590339

Table 4.7-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2401001000	Solvent Utilization_Surface Coating_Architectural Coatings_Total: All Solvent Types	0.7100	0.7647	0.8110	0.8504	0.8844
2401005000	Solvent Utilization_Surface Coating_Auto Refinishing: SIC 7532_Total: All Solvent Types	0.0846	0.0894	0.0940	0.0980	0.1022
2401008000	Solvent Utilization_Surface Coating_Traffic Markings_Total: All Solvent Types	0.0432	0.0438	0.0431	0.0418	0.0404
2401015000	Solvent Utilization_Surface Coating_Factory Finished Wood: SIC 2426 thru 242_Total: All Solvent Types	0.0034	0.0035	0.0037	0.0039	0.0041
2401020000	Solvent Utilization_Surface Coating_Wood Furniture: SIC 25_Total: All Solvent Types	0.0152	0.0148	0.0167	0.0188	0.0211
2401025000	Solvent Utilization_Surface Coating_Metal Furniture: SIC 25_Total: All Solvent Types	0.0030	0.0029	0.0033	0.0037	0.0042
2401030000	Solvent Utilization_Surface Coating_Paper: SIC 26_Total: All Solvent Types	0.0037	0.0037	0.0039	0.0042	0.0044
2401040000	Solvent Utilization_Surface Coating_Metal Cans: SIC 341_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000

Table 4.7-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2401045000	Solvent Utilization_Surface Coating_Metal Coils: SIC 3498_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000
2401055000	Solvent Utilization_Surface Coating_Machinery and Equipment: SIC 35_Total: All Solvent Types	0.0174	0.0175	0.0197	0.0222	0.0249
2401060000	Solvent Utilization_Surface Coating_Large Appliances: SIC 363_Total: All Solvent Types	0.0019	0.0019	0.0021	0.0024	0.0026
2401065000	Solvent Utilization_Surface Coating_Electronic and Other Electrical: SIC 36 - 363_Total: All Solvent Types	0.0004	0.0004	0.0004	0.0005	0.0005
2401070000	Solvent Utilization_Surface Coating_Motor Vehicles: SIC 371_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000
2401075000	Solvent Utilization_Surface Coating_Aircraft: SIC 372_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000
2401080000	Solvent Utilization_Surface Coating_Marine: SIC 373_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000
2401085000	Solvent Utilization_Surface Coating_Railroad: SIC 374_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000
2401090000	Solvent Utilization_Surface Coating_Miscellaneous Manufacturing_Total: All Solvent Types	0.0215	0.0222	0.0238	0.0255	0.0275
2401100000	Solvent Utilization_Surface Coating_Industrial Maintenance Coatings_Total: All Solvent Types	0.2171	0.2257	0.2388	0.2516	0.2650

Table 4.7-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2401200000	Solvent Utilization_Surface Coating_Other Special Purpose Coatings_Total: All Solvent Types	0.0015	0.0015	0.0016	0.0017	0.0018

4.8 DEGREASING

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.8-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2415000000	Solvent Utilization_Degreasing_All Processes/All Industries_Total: All Solvent Types	119.8951	90.8717

Table 4.8-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2415000000	Solvent Utilization_Degreasing_All Processes/All Industries_Total: All Solvent Types	0.9273743	0.8794227	0.9529795	1.0363128	1.1303538

Table 4.8-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2415000000	Solvent Utilization_Degreasing_All Processes/All Industries_Total: All Solvent Types	0.2309	0.2189	0.2373	0.2580	0.2814

4.9 DRYCLEANING

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.9-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2420000000	Solvent Utilization_Dry Cleaning_All Processes_Total: All Solvent Types	50.5619	38.3222

Table 4.9-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2420000000	Solvent Utilization_Dry Cleaning_All Processes_Total: All Solvent Types	1.0730519	1.1412338	1.200487	1.2467532	1.2913961

Table 4.9-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2420000000	Solvent Utilization_Dry Cleaning_All Processes_Total: All Solvent Types	0.1127	0.1198	0.1260	0.1309	0.1356

4.10 GRAPHIC ARTS

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.10-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2425000000	Solvent Utilization_Graphic Arts_All Processes_Total: All Solvent Types	0.0000	0.0000

Table 4.10-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2425000000	Solvent Utilization_Graphic Arts_All Processes_Total: All Solvent Types	0.9731343	0.9661692	1.0358208	1.1034826	1.1741294

Table 4.10-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2425000000	Solvent Utilization_Graphic Arts_All Processes_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000

4.11 COMMERCIAL AND/ OR CONSUMER SOLVENT UTILIZATIONS (NON-INDUSTRIAL)

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.11-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2460100000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Personal Care Products_Total: All Solvent Types	206.5756	156.5691
2460200000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Household Products_Total: All Solvent Types	187.7076	142.2686
2460400000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Automotive Aftermarket Products_Total: All Solvent Types	141.8235	107.4918
2460500000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Coatings and Related Products_Total: All Solvent Types	99.0679	75.0862
2460600000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Adhesives and Sealants_Total: All Solvent Types	59.4407	45.0517

Table 4.11-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2460800000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All FIFRA Related Products_Total: All Solvent Types	185.6220	140.6878
2460900000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_Miscellaneous Products (Not Otherwise Covered)_Total: All Solvent Types	7.2997	5.5327
2461021000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Cutback Asphalt_Total: All Solvent Types	0.0000	0.0000
2461022000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Emulsified Asphalt_Total: All Solvent Types	62.0770	47.0498
2461800000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Pesticide Application: All Processes_Total: All Solvent Types	13.1137	9.9392

Table 4.11-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2460100000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Personal Care Products_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2460200000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Household Products_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017

Table 4.11-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2460400000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Automotive Aftermarket Products_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2460500000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Coatings and Related Products_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2460600000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Adhesives and Sealants_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2460800000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All FIFRA Related Products_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2460900000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_Miscellaneous Products (Not Otherwise Covered)_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017
2461021000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Cutback Asphalt_Total: All Solvent Types	1.0930676	1.1799917	1.2894146	1.4004151	1.5198008
2461022000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Emulsified Asphalt_Total: All Solvent Types	1.0930676	1.1799917	1.2894146	1.4004151	1.5198008
2461800000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Pesticide Application: All Processes_Total: All Solvent Types	1.0377722	1.0774091	1.1182555	1.1581938	1.1964017

Table 4.11-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2460100000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Personal Care Products_Total: All Solvent Types	0.4452	0.4622	0.4797	0.4968	0.5132
2460200000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Household Products_Total: All Solvent Types	0.4045	0.4199	0.4359	0.4514	0.4663
2460400000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Automotive Aftermarket Products_Total: All Solvent Types	0.3056	0.3173	0.3293	0.3411	0.3523
2460500000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Coatings and Related Products_Total: All Solvent Types	0.2135	0.2216	0.2300	0.2383	0.2461
2460600000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All Adhesives and Sealants_Total: All Solvent Types	0.1281	0.1330	0.1380	0.1430	0.1477
2460800000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_All FIFRA Related Products_Total: All Solvent Types	0.4000	0.4153	0.4310	0.4464	0.4611
2460900000	Solvent Utilization_Miscellaneous Non-industrial: Consumer and Commercial_Miscellaneous Products (Not Otherwise Covered)_Total: All Solvent Types	0.0157	0.0163	0.0170	0.0176	0.0181
2461021000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Cutback Asphalt_Total: All Solvent Types	0.0000	0.0000	0.0000	0.0000	0.0000

Table 4.11-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2461022000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Emulsified Asphalt_Total: All Solvent Types	0.1409	0.1521	0.1662	0.1805	0.1959
2461800000	Solvent Utilization_Miscellaneous Non-industrial: Commercial_Pesticide Application: All Processes_Total: All Solvent Types	0.0283	0.0293	0.0305	0.0315	0.0326

4.12 RESIDENTIAL AND COMMERCIAL GAS CANS

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.12-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2501011011	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Permeation	36.7979	27.8901
2501011012	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Evaporation (includes Diurnal losses)	71.8466	54.4545
2501011013	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Spillage During Transport	8.1174	6.1524
2501011014	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Refilling at the Pump - Vapor Displacement	3.1814	2.4113

Table 4.12-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2501011015	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Refilling at the Pump - Spillage	0.2364	0.1791
2501012011	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Permeation	1.1753	0.8908
2501012012	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Evaporation (includes Diurnal losses)	2.2948	1.7393
2501012013	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Spillage During Transport	11.0733	8.3928
2501012014	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Refilling at the Pump - Vapor Displacement	6.1313	4.6471
2501012015	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Refilling at the Pump - Spillage	0.4548	0.3447

Table 4.12-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2501010120		1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501011011	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Permeation	1.026616	1.0407387	1.0239	0.9929386	0.9608908

Table 4.12-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
*2501011012	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Evaporation (includes Diurnal losses)	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501011013	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Spillage During Transport	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501011014	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Refilling at the Pump - Vapor Displacement	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501011015	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Refilling at the Pump - Spillage	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501012011	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Permeation	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501012012	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Evaporation (includes Diurnal losses)	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501012013	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Spillage During Transport	1.026616	1.0407387	1.0239	0.9929386	0.9608908

Table 4.12-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
*2501012014	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Refilling at the Pump - Vapor Displacement	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501012015	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Refilling at the Pump - Spillage	1.026616	1.0407387	1.0239	0.9929386	0.9608908

* SCC 2501011011 - 2501012015 were not in EGAS so SCC 2501010120 was used to represent gasoline storage

Table 4.12-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2501011011	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Permeation	0.0784	0.0795	0.0782	0.0759	0.0734
2501011012	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Evaporation (includes Diurnal losses)	0.1532	0.1553	0.1528	0.1481	0.1434
2501011013	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Spillage During Transport	0.0173	0.0175	0.0173	0.0167	0.0162
2501011014	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Refilling at the Pump - Vapor Displacement	0.0068	0.0069	0.0068	0.0066	0.0063

Table 4.12-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2501011015	Storage and Transport_Petroleum and Petroleum Product Storage_Residential Portable Gas Cans_Refilling at the Pump - Spillage	0.0005	0.0005	0.0005	0.0005	0.0005
2501012011	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Permeation	0.0025	0.0025	0.0025	0.0024	0.0023
2501012012	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Evaporation (includes Diurnal losses)	0.0049	0.0050	0.0049	0.0047	0.0046
2501012013	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Spillage During Transport	0.0236	0.0239	0.0235	0.0228	0.0221
2501012014	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Refilling at the Pump - Vapor Displacement	0.0131	0.0133	0.0130	0.0126	0.0122
2501012015	Storage and Transport_Petroleum and Petroleum Product Storage_Commercial Portable Gas Cans_Refilling at the Pump - Spillage	0.0010	0.0010	0.0010	0.0009	0.0009

4.13 PETROLEUM STORAGE AND PRODUCTS: BULK TERMINALS AND PLANTS

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.13-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2501050120	Storage and Transport_Petroleum and Petroleum Product Storage_Bulk Terminals: All Evaporative Losses_Gasoline	14.5404	11.0205
2501055120	Storage and Transport_Petroleum and Petroleum Product Storage_Bulk Plants: All Evaporative Losses_Gasoline	5.6469	4.2799

Table 4.13-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2501050120	Storage and Transport_Petroleum and Petroleum Product Storage_Bulk Terminals: All Evaporative Losses_Gasoline	1.026616	1.0407387	1.0239	0.9929386	0.9608908
*2501055120	Storage and Transport_Petroleum and Petroleum Product Storage_Bulk Plants: All Evaporative Losses_Gasoline	1.026616	1.0407387	1.0239	0.9929386	0.9608908

* SCC 2501055120 gasoline loss for bulk plants was in EGAS so SCC 2501050120 gasoline loss at terminal plants was used as representative.

Table 4.13-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2501050120	Storage and Transport_Petroleum and Petroleum Product Storage_Bulk Terminals: All Evaporative Losses_Gasoline	0.0310	0.0314	0.0309	0.0300	0.0290
2501055120	Storage and Transport_Petroleum and Petroleum Product Storage_Bulk Plants: All Evaporative Losses_Gasoline	0.0120	0.0122	0.0120	0.0116	0.0113

4.14 GASOLINE SERVICE STATIONS

Stage 1 activities are not calculated by the mobile model MOVES and are, therefore, included as part of the area source inventory. While Stage 2 activities can be calculated using MOVES, they were included in the area source inventory for consistency. Stage 2 will be excluded from the MOVES runs for York to avoid double-counting.

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.14-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2501060051	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Submerged Filling	0.0000	0.0000
2501060052	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Splash Filling	815.3734	617.9930
2501060053	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Balanced Submerged Filling	0.0000	0.0000
2501060100	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 2: Total	194.8892	147.7116
2501060201	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Underground Tank: Breathing and Emptying	52.1911	39.5570

Table 4.14-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2501060051	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Submerged Filling	1.026616	1.0407387	1.0239	0.9929386	0.9608908

Table 4.14-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2501060052	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Splash Filling	1.026616	1.0407387	1.0239	0.9929386	0.9608908
2501060053	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Balanced Submerged Filling	1.026616	1.0407387	1.0239	0.9929386	0.9608908
2501060100	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 2: Total	1.026616	1.0407387	1.0239	0.9929386	0.9608908
2501060201	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Underground Tank: Breathing and Emptying	1.026616	1.0407387	1.0239	0.9929386	0.9608908

Table 4.14-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2501060051	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Submerged Filling	0.0000	0.0000	0.0000	0.0000	0.0000
2501060052	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Splash Filling	1.7382	1.7621	1.7336	1.6812	1.6269
2501060053	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 1: Balanced Submerged Filling	0.0000	0.0000	0.0000	0.0000	0.0000
2501060100	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Stage 2: Total	0.4155	0.4212	0.4144	0.4018	0.3889

Table 4.14-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2501060201	Storage and Transport_Petroleum and Petroleum Product Storage_Gasoline Service Stations_Underground Tank: Breathing and Emptying	0.1113	0.1128	0.1110	0.1076	0.1041

4.15 AIRPORTS: GASOLINE

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.15-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2501080050	Storage and Transport_Petroleum and Petroleum Product Storage_Airports : Aviation Gasoline_Stage 1: Total	8.2525	6.2548
2501080100	Storage and Transport_Petroleum and Petroleum Product Storage_Airports : Aviation Gasoline_Stage 2: Total	0.4731	0.3586

Table 4.15-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2501080050	Storage and Transport_Petroleum and Petroleum Product Storage_Airports : Aviation Gasoline_Stage 1: Total	1.1179246	1.231132	1.3207548	1.4056604	1.5
2501080100	Storage and Transport_Petroleum and Petroleum Product Storage_Airports : Aviation Gasoline_Stage 2: Total	1.1179246	1.231132	1.3207548	1.4056604	1.5

Table 4.15-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2501080050	Storage and Transport_Petroleum and Petroleum Product Storage_Airports : Aviation Gasoline_Stage 1: Total	0.0192	0.0211	0.0226	0.0241	0.0257
2501080100	Storage and Transport_Petroleum and Petroleum Product Storage_Airports : Aviation Gasoline_Stage 2: Total	0.0011	0.0012	0.0013	0.0014	0.0015

4.16 PETROLEUM: TRUCK – GASOLINE

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.16-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2505030120	Storage and Transport_Petroleum and Petroleum Product Transport_Truck_Gasoline	3.4092	2.5839

Table 4.16-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2505030120	Storage and Transport_Petroleum and Petroleum Product Transport_Truck_Gasoline	1.026616	1.0407387	1.0239	0.9929386	0.9608908

Table 4.16-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2505030120	Storage and Transport_Petroleum and Petroleum Product Transport_Truck_Gasoline	0.0073	0.0074	0.0072	0.0070	0.0068

4.17 PIPELINE – GASOLINE

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.17-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2505040120	Storage and Transport_Petroleum and Petroleum Product Transport_Pipeline_Gasoline	14.5866	11.0556

Table 4.17-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2505040120	Storage and Transport_Petroleum and Petroleum Product Transport_Pipeline_Gasoline	1	1.0256411	1.0769231	1.1282052	1.2051282

Table 4.17-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2505040120	Storage and Transport_Petroleum and Petroleum Product Transport_Pipeline_Gasoline	0.0303	0.0311	0.0326	0.0342	0.0365

4.18 PUBLIC OWNED WASTEWATER TREATMENT

No NO_x emissions were associated with these SCCs in the SEMAP inventory.

Table 4.18-1 VOC Emissions (ton per year) for York County and the York Nonattainment Area

SCC	SCC Description	2007 York County VOC	2007 NA Area VOC
2630020000	Waste Disposal, Treatment, and Recovery_Wastewater Treatment_Public Owned_Total Processed	3.9478	2.9921

Table 4.18-2 EGAS Growth Factors

SCC	Description	2010	2013	2016	2019	2022
2630020000	Waste Disposal, Treatment, and Recovery_Wastewater Treatment_Public Owned_Total Processed	1.0518794	1.1031715	1.1640564	1.217502	1.2709476

Table 4.18-3 Projected VOC Emissions (ton per day) for the York Nonattainment Area

SCC	SCC Description	2010 NA Area VOC	2013 NA Area VOC	2016 NA Area VOC	2019 NA Area VOC	2022 NA Area VOC
2630020000	Waste Disposal, Treatment, and Recovery_Wastewater Treatment_Public Owned_Total Processed	0.0086	0.0090	0.0095	0.0100	0.0104

4.19 FOREST FIRES AND AGRICULTURAL FIRES

There are two types of forest fires; wild fires, which are accidental or felonious fires and prescribed burns, which are intentionally set for the purpose of forest and/or grassland management practice. Agricultural fires are intentional controlled burns used to burn off vegetative debris from agricultural fields. To estimate emissions for these types of fires, the 2007 SEMAP typical year fire inventory was used.

Since the SEMAP inventory is based on 2007 actual data, the typical year estimates seemed most appropriate to represent the 2010 base year and all future years in this analysis. The ‘typical’ fire inventory was generated using three years worth of actual York County fire data, 2006-2008. The number of acres burned in 2010 for each of these categories was ascertained from the South Carolina Forestry Commission (SCFC) and are listed in Table 4.19-1.

Table 4.19-1 Acres of Land Burned by Fires

	Wild Fires	Prescribed	Agriculture
York County	34	1133	179

The makeup of the plant life burned in each fire can vary from woodland to brush to grassland. The emission factors used were agreed upon by a committee of state air and forestry representatives. For Agricultural fires, the VOC emission factor came from AP42, Table 2.5-5. AP-42 does not provide any emission factors for NO_x from agricultural fires. For wildfires and prescribed fires, NO_x emissions factors came from Table 2 Data Needs and Availability- Pace Report and VOC factors came from Anthony Matthews Draft 2010_EmissionFactors_SEMAP.doc.

The SEMAP fire inventory is annual, so the daily emissions for all three fire types were estimated by dividing by 365 days per year. This likely overestimates the summer impact of Agriculture and Prescribed fires since the summer season is not typically active for these types of fires. However, summer emissions are not available so dividing by 365 days seemed to be a conservative assumption. Also, the York NA area is more urban than the rest of York County, so it is likely to contain less of the prescribed and agricultural burns, yet it was assumed to contain a portion equal to its portion of the population (75.8%).

Below is an example of a typical fire emission calculation:

$$EM_P = \frac{(\# \text{ acres burned}) \times EF_P}{(365 \text{ days/year})}$$

where EM_P = emissions for source category for pollutant (P)

EF_P = emission factor for pollutant (P)

The VOC and NO_x emission estimates, in tons/day, from agricultural, prescribed, and wildfires for the York NA area are listed in Table 4.19-2. The emissions have been adjusted by the fraction of the 2005 population in the York NA area (i.e., 0.758).

Table 4.19-2 Fire Emissions (ton per day) for the York NA Area

	VOC	NO _x
Agricultural	0.0107	n/a
Prescribed	0.0674	0.0357
Wildfires	0.0017	0.0009
TOTAL	0.0798	0.0366

5.0 SUMMATION OF AREA SOURCE EMISSIONS FOR THE YORK NA AREA

The emissions of NO_x and VOC in ton per day for the York NA area are presented in Tables 5.0-1 and 5.0-2. The emissions in the preceding sections were summed to determine total NO_x emissions and VOC emissions for 2010 and each projection year through 2022.

Table 5.0-1 Area Source NO_x (ton per day) for the NA Area

2010	2013	2016	2019	2022
1.1733	1.2219	1.2665	1.3183	1.3641

Table 5.0-2 Area Source VOC (ton per day) for the NA Area

2010	2013	2016	2019	2022
7.1645	7.3870	7.5672	7.7027	7.8311

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