## 10.000 FUEL COMBUSTION

### 11.000 Utility- and Large Industrial-Size Boilers/Furnaces (>250 million BTU/H)

- **11.100 Solid Fuel & Solid Fuel Mixtures (>250 million BTU/H)**
  - 11.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
  - 11.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
  - 11.130 Coal Gasification (Integrated Gasification Combined Cycle (IGCC))
  - 11.190 Other Solid Fuel & Solid Fuel Mixtures

- **11.200 Liquid Fuel & Liquid Fuel Mixtures (>250 million BTU/H)**
  - 11.210 Residual Fuel Oil (ASTM # 4,5,6)
  - 11.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
  - 11.290 Other Liquid Fuel & Liquid Fuel Mixtures

- **11.300 Gaseous Fuel & Gaseous Fuel Mixtures (>250 million BTU/H)**
  - 11.310 Natural Gas (includes propane and liquefied petroleum gas)
  - 11.320 Landfill/Digester/Bio-Gas
  - 11.390 Other Gaseous Fuel & Gaseous Fuel Mixtures

### 11.900 Other Fuels and Combinations (>250 million BTU/H)(e.g., solid/liquid, liquid/gas)

### 12.000 Industrial-Size Boilers/Furnaces (>100 million BTU/H & ≤250 million Btu/H)

- **12.100 Solid Fuel & Solid Fuel Mixtures (>100 million BTU/H & ≤250 million Btu/H)**
  - 12.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
  - 12.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
  - 12.190 Other Solid Fuel & Solid Fuel Mixtures

- **12.200 Liquid Fuel & Liquid Fuel Mixtures (>100 million BTU/H & ≤250 million Btu/H)**
  - 12.210 Residual Fuel Oil (ASTM # 4,5,6)
  - 12.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
  - 12.290 Other Liquid Fuel & Liquid Fuel Mixtures

- **12.300 Gaseous Fuel & Gaseous Fuel Mixtures (>100 million BTU/H & ≤250 million Btu/H)**
  - 12.310 Natural Gas (includes propane and liquefied petroleum gas)
  - 12.320 Landfill/Digester/Bio-Gas
  - 12.390 Other Gaseous Fuel & Gaseous Fuel Mixtures

### 12.900 Other Fuels and Combinations (>100 million BTU/H & ≤250 million Btu/H)(e.g., solid/liquid, liquid/gas)

### 13.000 Commercial/Institutional-Size Boilers/Furnaces (≤100 million BTU/H)

- **13.100 Solid Fuel & Solid Fuel Mixtures (≤100 million BTU/H)**
  - 13.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
  - 13.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
  - 13.190 Other Solid Fuel & Solid Fuel Mixtures

- **13.200 Liquid Fuel & Liquid Fuel Mixtures (≤100 million BTU/H)**
  - 13.210 Residual Fuel Oil (ASTM # 4,5,6)
  - 13.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
  - 13.290 Other Liquid Fuel & Liquid Fuel Mixtures

- **13.300 Gaseous Fuel & Gaseous Fuel Mixtures (≤100 million BTU/H)**
  - 13.310 Natural Gas (includes propane and liquefied petroleum gas)
  - 13.320 Landfill/Digester/Bio-Gas
  - 13.390 Other Gaseous Fuel & Gaseous Fuel Mixtures
13.900 Other Fuels and Combinations (≥100 million BTU/H) (e.g., solid/liquid, liquid/gas)

15.000 Large Combustion Turbines (> 25 MW)
15.100 Simple Cycle (no waste heat recovery) (>25 MW)
  15.110 Natural Gas (includes propane & liquified petroleum gas)
  15.120 Landfill/Digester/Bio-Gas
  15.150 Other Gaseous Fuel & Gaseous Fuel Mixtures
  15.190 Liquid Fuel & Liquid Fuel Mixtures
15.200 Combined Cycle & Cogeneration (>25 MW)
  15.210 Natural Gas (includes propane & liquified petroleum gas)
  15.220 Landfill/Digester/Bio-Gas
  15.250 Other Gaseous Fuel & Gaseous Fuel Mixtures
  15.290 Liquid Fuel & Liquid Fuel Mixtures
15.900 Other/Unknown Cycle and/or Fuel (>25 MW)

16.000 Small Combustion Turbines (≤25 MW)
16.100 Simple Cycle (no waste heat recovery) (≤25 MW)
  16.110 Natural Gas (includes propane & liquified petroleum gas)
  16.120 Landfill/Digester/Bio-Gas
  16.150 Other Gaseous Fuel & Gaseous Fuel Mixtures
  16.190 Liquid Fuel & Liquid Fuel Mixtures
16.200 Combined Cycle & Cogeneration (≤25 MW)
  16.210 Natural Gas (includes propane & liquified petroleum gas)
  16.220 Landfill/Digester/Bio-Gas
  16.250 Other Gaseous Fuel & Gaseous Fuel Mixtures
  16.290 Liquid Fuel & Liquid Fuel Mixtures
16.900 Other/Unknown Cycle and/or Fuel (≤25 MW)

17.000 Internal Combustion Engines
17.100 Large Internal Combustion Engines (> 500 HP)
  17.110 Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
  17.120 Other Liquid Fuel & Liquid Fuel Mixtures
  17.130 Natural Gas (includes propane & liquified petroleum gas)
  17.140 Landfill/Digester/Bio-Gas
  17.150 Other Gaseous
  17.190 Other/Unknown Fuel
17.200 Small Internal Combustion Engines (≤,500 HP)
  17.210 Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
  17.220 Other Liquid Fuel & Liquid Fuel Mixtures
  17.230 Natural Gas (includes propane & liquified petroleum gas)
  17.240 Landfill/Digester/Bio-Gas
  17.250 Other Gaseous Fuel & Gaseous Fuel Mixtures
  17.290 Other/Unknown Fuel

19.000 Miscellaneous Combustion
19.100 Crematoriums
19.200 Emission Control Afterburners & Incinerators (combustion gasses only)
19.300 Flares
  19.310 Chemical Plant Flares
  19.320 Digester and Landfill Gas Flares
  19.330 Refinery Flares
  19.390 Other Flares
19.600 Misc. Boilers, Furnaces, Heaters
19.700 Misc. Combustion Turbines
19.800 Misc. Internal Combustion Engines
19.900 Other Misc. Combustion

20.000 WASTE DISPOSAL
21.000 Waste Combustion Processes
   21.100 Commercial/Industrial Solid Waste Combustion
   21.200 Hazardous Waste Incineration
   21.300 Hospital/Medical/Infectious Waste Incineration
   21.400 Municipal Waste Combustion
   21.500 Wastewater Treatment Sludge Incineration
   21.900 Mixed/Other Waste Combustion/Incineration

22.000 Wastewater/Contaminated Ground Water Treatment (Excludes 21.500)
   22.100 Contaminated Ground Water Treatment
   22.200 Industrial Wastewater Treatment
   22.300 Publicly Owned Treatment Works (POTW)
   22.900 Other Wastewater Treatment Processes

29.000 Other Waste Processing and Disposal
   29.100 Contaminated Soil Treatment
   29.200 Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF)
   29.300 Waste Recycling Processes
   29.900 Other Waste Processing & Disposal Processes

30.000 WOOD PRODUCTS INDUSTRIES
30.100 Charcoal Manufacturing
30.200 Kraft Pulp & Paper Processes
   30.210 Kraft Material Recovery Processes
      30.211 Kraft Recovery Furnaces/ Boilers
      30.212 Kraft Smelt Dissolving Tanks
      30.219 Other Kraft Material Recovery Processes
   30.220 Kraft Digesting Processes
      30.221 Kraft Batch Digesters
      30.229 Other Kraft Digesting Processes
   30.230 Kraft Lime Kiln Processes
      30.231 Kraft Lime Kilns
      30.239 Other Kraft Lime Kiln Processes
   30.240 Kraft Paper Making Processes
      30.241 Kraft Paper Machines
      30.242 Kraft Bleach Processes
      30.249 Other Kraft Paper Making Processes
   30.290 Other Kraft Processes
   30.300 Plywood Manufacturing
      30.310 Plywood Dryers
      30.320 Plywood Presses
      30.390 Other Plywood Manufacturing Processes
   30.400 Non-Kraft Pulp & Paper Processes
      30.420 Non-Kraft Paper Machines
      30.490 Other Non-Kraft Operations
   30.500 Particle & Strand Board Manufacturing
      30.510 Board Mfg, Material Handling. (e.g. unloading, storage & distribution)
      30.520 Board Presses.
30.530 Board Mfg. Dryers
30.540 Board Product Finishing. (e.g. sanders, saws and trimmers)
30.590 Miscellaneous Particle & Strand Board Operations
30.600 Wood Treatment
30.700 Wood Working
30.800 Wood Lumber Kilns
30.999 Other Wood Products Industry Sources

40.000 ORGANIC EVAPORATIVE LOSSES

41.000 SURFACE COATING/PRINTING/GRAPHIC ARTS
41.001 Aerospace Surface Coating
41.002 Automobiles and Trucks Surface Coating (OEM)
41.003 Automotive Refinishing
41.004 Can Surface Coating
41.005 Fabric Coating/Printing/Dyeing (except 41.017)
41.006 Flatwood Paneling Surface Coating
41.007 Flexible Vinyl & Urethane Coating/Printing
41.008 Large Appliance Surface Coating
41.026 Leather Surface Coating
41.009 Magnetic Tape Surface Coating
41.010 Magnetic Wire Surface Coating
41.011 Metal Coil Surface Coating
41.012 Metal Furniture Surface Coating
41.013 Miscellaneous Metal Parts and Products Surface Coating
41.014 Paper, Plastic & Foil Web Surface Coating (except 41.007 & 41.018)
41.015 Plastic Parts for Business Machines Surface Coating
41.016 Plastic Parts & Products Surface Coating (except 41.015)
41.017 Polymeric Coating of Fabrics
41.018 Pressure Sensitive Tapes and Labels Coating
41.019 Printing - Forms
41.020 Printing - News Print
41.021 Printing - Packaging
41.022 Printing - Publication
41.023 Printing/Publication (except 41.007 & 41.019-022)
41.024 Ship Building & Repair Surface Coating
41.025 Wood Products/Furniture Surface Coating (except 41.006)
41.999 Other Surface Coating/Printing/Graphic Arts Sources

42.000 ORGANIC LIQUID STORAGE & MARKETING (PETROLEUM, GASOLINE, VOL)
42.001 Gasoline Bulk Plants
42.002 Gasoline Bulk Terminals
42.003 Gasoline Marketing (except 42.001 & 42.002)
42.004 Petroleum Liquid Marketing (except 42.001-003 & 42.005-006)
42.005 Petroleum Liquid Storage in Fixed Roof Tanks
42.006 Petroleum Liquid Storage in Floating Roof Tanks
42.009 Volatile Organic Liquid Storage
42.010 Volatile Organic Liquid Marketing (except 42.009)
42.999 Other Liquid Marketing Sources

49.000 ORGANIC EVAPORATIVE LOSSES (except 41 & 42)
49.001 Aerosol Can Filling
49.012 Architectural & Industrial Maintenance (AIM) Coatings
49.013 Automobile Refinish Coatings
49.011 Consumer Products
49.002 Dry Cleaning - PERC/Chlorinated Solvents
49.003 Dry Cleaning - Petroleum Solvents
49.004 Fiberglass Boat Manufacturing
49.005 Fiberglass/Reinforced Polymer Products Manufacturing (except 49.004)
49.006 Halogenated Solvent Cleaners
49.007 Ink Manufacturing
49.008 Organic Solvent Cleaning & Degreasing (except 49.006)
49.009 Paint/Coating/Adhesives Manufacturing
49.010 Paint Stripping
49.999 Other Organic Evaporative Loss Sources

50.000 PETROLEUM/NATURAL GAS PRODUCTION AND REFINING
50.002 Natural Gas/Gasoline Processing Plants
50.001 Oil and Gas Field Services
50.003 Petroleum Refining Conversion Processes (cracking, reforming, etc.)
50.007 Petroleum Refining Equipment Leaks/Fugitive Emissions
50.004 Petroleum Refining Feedstock (blending, loading and unloading)
50.008 Petroleum Refining Flares and Incinerators (except acid gas/SRU incinerators - 50.006)
50.005 Petroleum Refining Separation Processes (distillation and light ends recovery)
50.006 Petroleum Refining Treating Processes (hydrotreating, acid gas removal, SRU’s, etc.)
50.009 Petroleum Refining Wastewater and Wastewater Treatment
50.010 Shale Processing
50.999 Other Petroleum/Natural Gas Production & Refining Sources (except 42 - Liquid Marketing)

60.000 CHEMICALS MANUFACTURING
61.000 AGRICULTURAL CHEMICALS MANUFACTURING
   61.012 Fertilizer Production (except 61.009)
   61.009 Phosphate Fertilizers Production
   61.999 Other Agricultural Chemical Manufacturing Sources

62.000 INORGANIC CHEMICALS MANUFACTURING
   62.003 Chlorine Production
   62.006 Fume Silica Production
   62.008 Hydrogen Cyanide Production
   62.020 Inorganic Liquid/Gas Storage & Handling
   62.014 Nitric Acid Plants
   62.010 Phosphoric Acid Manufacturing
   62.018 Sodium Carbonate Production
   62.012 Sodium Cyanide Production
   62.015 Sulfuric Acid Plants
   62.019 Sulfur Recovery (except 50.006)
   62.999 Other Inorganic Chemical Manufacturing Sources

63.000 POLYMER AND RESIN PRODUCTION
   63.002 Acrylonitrile-Butadiene-Styrene Production
   63.006 Butyl Rubber Production
   63.012 Ethylene-propylene Rubber Production
   63.013 Flexible Polyurethane Foam Production
   63.015 Maleic Copolymers Production
   63.025 Polycarbonates Production
   63.026 Polyester Resins Production
63.028 Polyethylene Terephthalate Production
63.029 Polymerized Vinylidene Production
63.031 Polystyrene Production
63.033 Polyvinyl Acetate Emulsions Production
63.036 Polyvinyl Chloride and Copolymers Production
63.037 Reinforced Plastic Composites Production
63.039 Styrene Butadiene Rubber and Latex Production
63.999 Other Polymer and Resin Manufacturing Sources

64.000 SYNTHETIC ORGANIC CHEMICAL MANUFACTURING INDUSTRY (SOCMI)
   64.001 Batch Reaction Vessels (except 69.011)
   64.002 Equipment Leaks (valves, compressors, pumps, etc.)
   64.003 Processes Vents (emissions from air oxidation, distillation, and other reaction vessels)
   64.004 Storage Tanks (SOCMI only - also see 42.001-42.999 and 62.020)
   64.005 Transfer of SOCMI Chemicals (loading/unloading, filling, etc.)
   64.006 Wastewater Collection & Treatment
   64.999 Other SOCMI Processes

65.000 SYNTHETIC FIBERS PRODUCTION
   65.001 Acrylic Fibers/Modacrylic Fibers Production
   65.003 Spandex Production
   65.999 Other Synthetic Fibers Production Sources

69.000 CHEMICAL MANUFACTURING (except 61, 62, 63, 64 & 65)
   69.015 Carbon Black Manufacturing
   69.008 Explosives Production
   69.011 Pharmaceuticals Production
   69.016 Soap & Detergent Manufacturing
   69.999 Other Chemical Manufacturing Sources

70.000 FOOD & AGRICULTURAL PRODUCTS (also see 61-AGRICULTURAL CHEMICALS)
   70.100 Alcohol Production
      70.110 Alcoholic Beverage Production
      70.120 Alcohol Fuel Production
      70.190 Other Alcohol Production
   70.200 Grain Handling and Drying
      70.210 Grain Dryers
      70.230 Grain Loading & Unloading
      70.290 Other Grain Handling
   70.300 Vegetable Oil Manufacturing
      70.310 Corn & Sunflower Seed Oil Manufacturing - Germ Wet Mill
      70.320 Corn Oil Manufacturing - Dry Mill
      70.330 Cotton Seed Oil Manufacturing
      70.350 Soybean Oil Manufacturing
      70.390 Other Vegetable Oil Manufacturing Processes
   70.400 Fruit & Vegetable Processing
   70.500 Agricultural Products Processing & Manufacturing
      70.510 Starch Manufacturing
      70.520 Tobacco Processing
      70.530 Cotton Ginning
      70.540 Seeds, Nuts, Spices & Herbs Processing
      70.550 Bakeries and Snack Food
      70.590 Other Agricultural Products
70.600 Meat Processing
70.700 Fish Processing
70.900 Other Food & Agricultural Products & Processes

80.000 METALLURGICAL INDUSTRY

81.000 FERROUS METALS INDUSTRY

81.100 Coke Processes
  81.110 Coke Oven Batteries - non-by product
    81.111 Pushing
    81.112 Battery Stack
  81.113 Doors
  81.114 Lids
  81.115 Charging
  81.190 Other Coke Processes

81.200 Steel Production (excludes Steel & Iron Foundry Processes)
  81.210 Electric Arc Furnaces
  81.220 Hot Metal Transfer & Ladle Processes
  81.230 Casting & Pouring Processes
  81.290 Other Steel Manufacturing Processes

81.300 Steel Foundry Processes
  81.310 Electric Arc Furnaces
  81.320 Cupola Furnaces
  81.330 Induction Furnaces
  81.340 Ladle Metallurgy Processes
  81.350 Casting & Pouring Processes
  81.360 Core Making Processes
  81.370 Miscellaneous Melt Shop Operations
  81.380 Scrap Handling & Preparation Processes
  81.390 Other Steel Foundry Processes

81.400 Iron Foundry Processes
  81.410 Cupola Furnaces
  81.420 Induction Furnaces
  81.430 Desulfurization
  81.440 Sand, Core & Mold Making Processes
  81.450 Casting & Pouring Processes
  81.460 Shake Out Processes
  81.490 Other Iron Foundry Processes

81.500 Ferroalloy Production Processes (Includes Stainless & Speciality Steels)
  81.510 Electric Arc Furnaces
  81.520 Metal Oxygen Refining
  81.530 Fugitive Dust Sources
  81.590 Other Ferroalloy Production Processes

81.600 Pickling Processes

81.900 Other Ferrous Metal Industry Processes

82.000 NONFERROUS METALS INDUSTRY

82.100 Aluminum Products & Smelting
  82.110 Primary Aluminum
    82.111 Primary AL Furnaces & Pot Lines
    82.119 Misc. Primary AL Processes
  82.120 Secondary Aluminum
Secondary AL Furnaces
Secondary AL Casting Lines
Misc. Secondary AL Processes
Brass Production
Copper Products & Smelting
Primary Copper Production
Secondary Copper Production
Lead Products & Smelting
Lead Acid Battery Manufacturing
Secondary Lead Smelting
Misc. Lead Products & Smelting
Zink Smelting
Other Non-Ferrous Metals Industry Sources
MINERAL PRODUCTS
Alumina Processing
Asbestos Manufacturing
Asphalt/Coal Tar Application - Metal Pipes
Asphalt Concrete Manufacturing
Asphalt Processing (except 90.002, 90.003 & 90.034)
Asphalt Roofing Products Manufacturing
Calciners & Dryers and Mineral Processing Facilities
Calcium Carbide Manufacturing
Cement Manufacturing (except 90.028)
Chromium Refractories Production
Clay and Fly Ash Sintering
Clay Products (including Bricks & Ceramics)
Coal Conversion/Gasification
Coal Handling/Processing/Preparation/Cleaning
Concrete Batch Plants
Elemental Phosphorous Plants
Frit Manufacturing
Glass Fiber Manufacturing (except 90.033)
Glass Manufacturing
Lead Ore Crushing and Grinding
Lime/Limestone Handling/Kilns/Storage/Manufacturing
Mercury Ore Processing
Metallic Mineral/Ore Processing (except 90.018, 90.020 & 90.031)
Mineral Wool Manufacturing
Mining Operations (except 90.032)
Non-metallic Mineral Processing (except 90.011, 90.019, 90.017, 90.026)
Phosphate Rock Processing
Phosphogypsum Stacks
Portland Cement Manufacturing
Refractories
Taconite Iron Ore Processing
Underground Uranium Mines
Wool Fiberglass Manufacturing
Other Mineral Processing Sources
MISCELLANEOUS SOURCES
99.001 Abrasive Blasting
99.002 Chromic Acid Anodizing
99.003 Comfort Cooling Towers
99.004 Commercial Sterilization Facilities
99.005 Decorative Chromium Electroplating
99.006 Electronics Manufacturing (except 99.011)
99.013 Electroplating/Plating (except Chrome - 99.002, 99.005 & 99.007)
99.019 Geothermal Power
99.007 Hard Chromium Electroplating
99.008 Hospital Sterilization Facilities
99.009 Industrial Process Cooling Towers
99.017 Leather Tanning
99.014 Polystyrene Foam Products Manufacturing
99.016 Polyurethane Foam Products Manufacturing
99.020 Rocket Demilitarization
99.010 Rocket Engine Test Firing
99.015 Rubber Tire Manufacturing and Retreading
99.011 Semiconductor Manufacturing
99.018 Synthetic Fuels Production (except 70.016 & 90.010)
99.012 Welding & Grinding
99.100 Fugitive Dust Sources
  99.110 Agricultural Activities
  99.120 Ash Storage, Handling, Disposal
  99.130 Construction Activities
  99.140 Paved Roads
  99.150 Unpaved Roads
  99.190 Other Fugitive Dust Sources
99.999 Other Miscellaneous Sources