# **GENERAL INSTRUCTIONS**

Before completing any forms, please review the general instructions for definitions, applicability and other information necessary to understand, complete, assemble and submit the Renewable Operating Permit Application. Copies of the Michigan Air Pollution Control Rules or Operational Memoranda may be obtained by contacting a District Office as identified in Appendix A or the Air Quality Division (AQD) internet site at <a href="http://www.deq.state.mi.us/aqd">http://www.deq.state.mi.us/aqd</a>.

### RENEWABLE OPERATING PERMIT PROGRAM OVERVIEW

### AUTHORITY

Renewable Operating (RO) Permits are required pursuant to Title V of the amendments to the federal Clean Air Act of 1990 (CAA) and Section 324.5506 [M.S.A. 13a.5506] of the Natural Resources and Environmental Protection Act, Public Act 451 of 1994, as amended (Act 451). The permit application forms are designed to collect information in accordance with these requirements.

The Rules cited in this document are derived from the Michigan Air Pollution Control Rules, R 336.1101 - R 336.2706 of the Michigan Administrative Code (MAC). It is important to note that the citations provided (e.g., Rule 210, Rule 212, etc.) are abbreviated versions of the rule numbers as they appear in the MAC. For example, Rule 210 and Rule 212 will appear in the MAC and Air Pollution Control Rules as R 336.1210 and R 336.1212. For more information about regulatory citations and how to obtain laws and rules on the Internet, refer to Appendix C of the *Michigan Manufacturers' Guide to Environmental and Safety and Health Regulations*. See Appendix B – Internet Sites for web site location.

### ADMINISTRATIVE COMPLETENESS

The RO Permit application forms are designed to collect all information necessary for an administratively complete initial, modification or renewal application as required by Section 5506 of Act 451. The date of receipt of the application submittal pursuant to Rule 210 is determined by the day the application is received at the appropriate AQD or Wayne County office. The AQD will determine administrative completeness for an RO Permit application using manual and electronic screening. If the RO Permit application is submitted in paper form only, the AQD will make the administrative completeness determination within 60 days. If Permit Application Submittal System (PASS) software is used to electronically submit the RO Permit application along with the paper application, the AQD will make the administrative completeness determination within 15 days. See definitions for description of PASS.

### CERTIFICATIONS

The responsible official, as defined in Rule 118(j), must certify that based on information and belief formed after reasonable inquiry, the statements and information in all submittals are true, accurate and complete. In accordance with the CAA, federal Credible Evidence Rule (62 FR 8314, February 24, 1997) and United States Environmental Protection Agency's (USEPA) White Paper Number 2 (Lydia Wegman to Regional Air Directors, March 5, 1996), the application must include information on all observed, documented, or known instances of noncompliance. Rule 210(2) specifies that a certification is required when submitting an initial or renewal application, supplemental information, as well as for applications to amend or modify an issued RO Permit. Knowingly certifying wrong information is grounds for enforcement action. A Certification form (C-001) is used to identify the responsible official(s) and certify submittals.

### APPLICATION SHIELD

Rule 210(1) defines an application shield as, "the ability to operate the process and process equipment at a stationary source while a timely and administratively complete application is being reviewed and acted upon by the department." An application is considered timely pursuant to Rule 210(4)-(7) and it is considered administratively complete pursuant to Rule 210(2). Failure to provide a timely response to information requests may result in loss of the application shield. Loss of the application shield is grounds for enforcement action pursuant to Rule 210(1).

### CONTACT INFORMATION

All inquiries, information requests and submittals for RO Permit applications should be directed to the appropriate District Offices of the AQD or Wayne County Air Quality Management Division as identified in Appendix A. For additional assistance, see the AQD and Environmental Assistance Division (EAD) Internet sites at <a href="http://www.deq.state.mi.us/aqd">http://www.deq.state.mi.us/aqd</a> and <a href="http://www.deq.state.mi.us/aqd">http://www.deq.state.mi.us/aqd</a> or call EAD at 1-800-662-9278.

### APPLICABILITY

The RO Permit program applies to stationary sources as described in Rule 211. This document provides instructions for completing an RO Permit Application for initial submittals, modifications and renewals. This document does not address how to determine Rule 201 and Rule 210 applicability. Refer to *Michigan Guide to Air Use Permits to Install* and *Guide Book for Determining Applicability* for guidance on these determinations. Additionally, this document does not address how to determine Rule 215 or Rule 216 applicability for changes at a source after an RO Permit is issued. Refer to *Revised Operational Memorandum No. 2 - Changes at a Stationary Source after RO Permit Issuance* for information on the provisions of Rule 215 and Rule 216. These documents are available upon request. See Appendix B – Internet Sites for AQD and EAD web site locations or call EAD at 1-800-662-9278 for additional information.

Initial Application

After it is determined that a source is subject to the RO Permit program, an initial application must be submitted in accordance with Rule 210. Parts 1 and 2 of these instructions address initial application requirements.

• Amendments, Modifications and Notifications of Change

After an RO Permit is issued, future changes at the source must eventually be incorporated into the RO Permit. The procedures for processing the changes to an existing RO Permit depend entirely on the nature of the change, as specified in Rules 215 and 216. The Change Notification & Amendment/Modification Application form (M-001) is used to provide notification of Rule 215 changes and to submit applications for Rule 216 amendments and modifications after the RO Permit is issued. The specific procedures for using this form and for completing notifications and/or applications are provided in Part 3 of these instructions.

Renewals

Rule 213(7) specifies that each RO Permit shall be issued for a fixed term of not more than 5 years. Rule 210(7) specifies that an administratively complete application for renewal of an RO Permit shall be considered timely if it is received by the AQD not more than 18 months, but not less than 6 months, before the expiration date of the current RO Permit. An application for renewal of an RO Permit must meet the same criteria as an application for an initial RO Permit as specified in Rule 210(2). Parts 1 and 2 of these instructions address renewal application requirements.

### FORMS OVERVIEW

These forms must be used for all RO Permit application actions including initial applications, notifications of change, amendments, modifications and renewals. The forms are labeled "Renewable Operating Permit Application." The forms are located in Parts 2 and 3 of this packet and contain the forms (one of each type) and detailed instructions for each form. If additional forms are needed to report all the required data, make photocopies. The detailed instructions for each form are provided with the form to which they apply. Each numbered question is identified in bold type with instructions following. Examples are given in parenthesis. Some instructions are also provided on the forms themselves. The following is a brief description of each form and a summary of the original RO Permit application forms that it replaced.

- S-001 replaces the original S-001, S-002 (part)
- SI-001 replaces the remainder of the original S-002
- S-002 replaces the original S-003
- C-001 replaces the original S-004
- EU-001 replaces the original DV-001
- EU-002 replaces part of the original G-001
- EU-003 replaces the original G-001
- FG-001 replaces the original G-002
- AR-001 and AR-002 replaces the original AR-001, AR-002, and AR-003
- MS-001, MS-002, and MS-003 replace the original MS-001, MS-002, MS-003, MS-004, MS-005, MS-006, MS-007 and MS-008
- AI-001 replaces the original AI-001, CP-001, CP-002 and CI-001
- M-001 is an entirely new form
- A-101 from the Michigan Air Emission Reporting System (MAERS) is used in place of the original MI-001, MI-002, MI-003 and MF-001
- E-101 from the Michigan Air Emission Reporting System (MAERS) is used in place of the original MF-002
- SV-101 from the Michigan Air Emission Reporting System (MAERS) is used in place of the original SV-001

# Refer to the detailed instructions for specific information, examples and a description of the applicability and use of each form.

**Source (S-001):** This form is used for basic source information and can be completed independent of the rest of the application. Information contained in this form includes company name, location of the source and owner information. Required attachments (e.g., building layouts, site plans, etc.) must be included in the application. See definition of Additional Information form.

**Contact/Responsible Official (S-002):** This form is used for information concerning the contact and responsible official for the application and permit. If there is more than one contact or responsible official for the source, or a contact or responsible official for each section, information must be completed for each contact or responsible official.

**Certification (C-001):** This form is used as a certification for all RO Permit application actions and notifications of change, amendments or modifications to an RO Permit.

**Exempt Emission Unit (EU-001):** This form is used to identify exempt equipment pursuant to Rule 212(4). Rule 212(4) requires the source to provide a description of the exempt emission unit, including control equipment. See EU-001 instructions for additional details regarding exempt emission units with existing permits.

Emission Units For Rules 281(h), 287(c) or 290 (EU-002): This form is used to identify emission units, describe all process equipment and list control devices for emission units that meet the requirements of the listed rules.

**Emission Unit (EU-003):** This form is used to identify emission units, describe all process equipment and list control devices and stacks with applicable requirements which belong to the emission unit.

Flexible Group (FG-001): This form is used to identify groups of emission units with common or identical applicable requirements.

**Applicable Requirements (AR-001 and AR-002):** These forms are used to identify applicable requirements (see Rule 101(o)) and requirements established in an RO Permit pursuant to Rule 213.

**Monitoring Systems (MS-001, MS-002 and MS-003):** These forms are used to identify monitoring and recordkeeping information, testing and sampling information, and reporting information that is used to show compliance with each applicable requirement that requires a compliance demonstration. Monitoring systems may be existing or proposed. Some method of compliance demonstration must be identified for every emission limit, material limit, and operational restriction. Therefore, if there is no existing monitoring system, the source must propose a compliance demonstration method.

**Section Identification (SI-001):** This form is used for Section information if the permit is sectioned. This form provides identification for each Section of a sectioned permit, and lists all of the emission units, flexible groups, contact(s) and responsible official(s) associated with the Section. See Sectioned RO Permits heading on page 8 for further details.

Additional Information (AI-001): This form is used to submit information or attachments to supplement the specific information requested in the application including confidential information, compliance plans, progress reports and process flow diagrams. A narrative description and any other information that the applicant feels is necessary to supplement the specific information requested may also be included. Additional information is not limited to text and may include calculations, design parameters, tables or small diagrams. Attachments such as drawings, graphs, manufacturer's literature, demonstrations or protocols may also be necessary to supplement or clarify the information on a form. Any attachments specifically required for an individual form are identified on the form, or in the instructions for that form. Attachments must be labeled with the Additional Information ID. If the information or attachment is more than one page in length, label each page to show the relationship between pages. Additional information or attachments must be provided using an AI-001. See the instructions for AI-001 for details.

**Change Notification or Amendment/Modification Application (M-001)**: This form is used to identify any changes after RO Permit issuance. Pursuant to Rule 215, this form provides a notification of change. Pursuant to Rule 216, this form provides application for administrative amendments, minor modifications, or significant modifications. See Part 3 of the Instructions for further information.

### **CREATING OPERATOR IDs**

By definition, an Operator's ID consists of a pre-established ID prefix and up to 14 additional alphanumeric characters. Operator IDs should be simple, self-descriptive and unique. The ID should help identify the information to which it pertains. For example, an Operator's Emission Unit ID for a boiler may be **EU**BOILER and an Operator's Flexible Group ID for a group of similar boilers may be **FG**BOILERS. Similarly, an Operator's Applicable Requirement ID may be **AR1**EL001. An example of an Operator's Monitoring System ID for a continuous emissions monitor system (CEMS) for carbon monoxide (CO) is **MS**CEMSCO and an example of an Operator's ID for Additional Information is **AIBOILERINFO#1**.

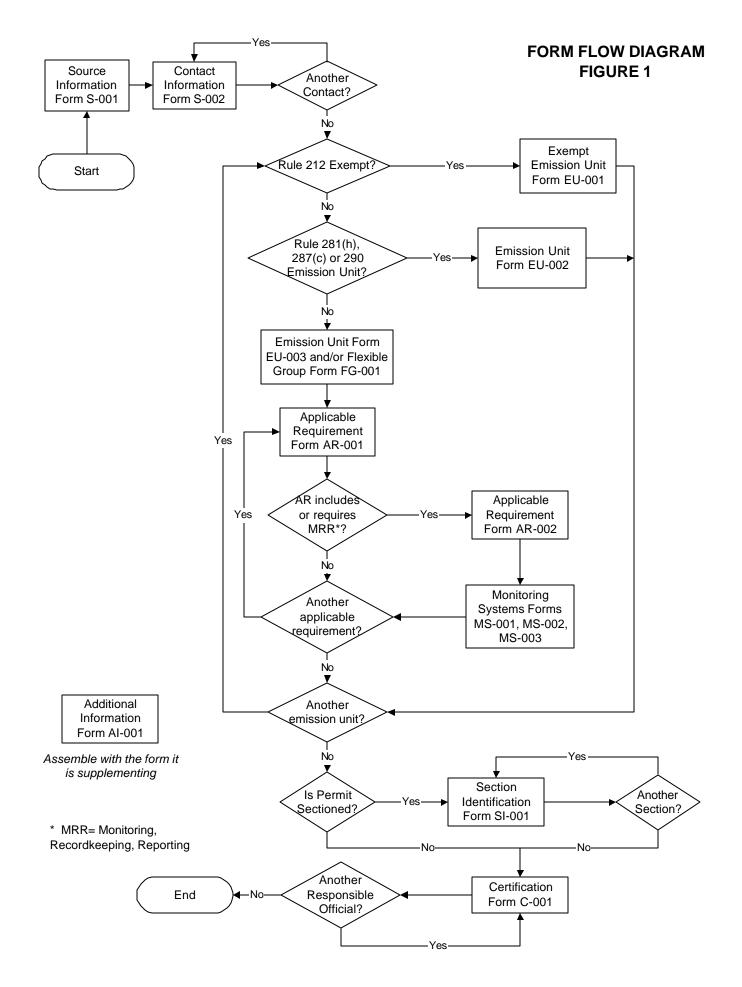
Additionally, if an RO Permit is sectioned, it should include a consistent suffix to each Operator's ID that specifies the section to which it pertains. For example, if an RO Permit has two sections and each section contains a paint booth, the Operator's Emission Unit IDs might be EUPAINTBOOTH1S1 and EUPAINTBOOTH1S2. In this case, "S1" would refer to section one in the RO Permit and "S2" would refer to section two in the RO Permit.

Operator's IDs can be established through a New Source Review (NSR) or RO Permit application or Michigan Air Emissions Reporting System (MAERS). Each emission unit, flexible group, and stack at a stationary source should only have one unique Operator's ID that is consistent between NSR Permits, RO Permits, and MAERS. Changes to an existing Operator's ID will only be made through an NSR or RO Permit application.

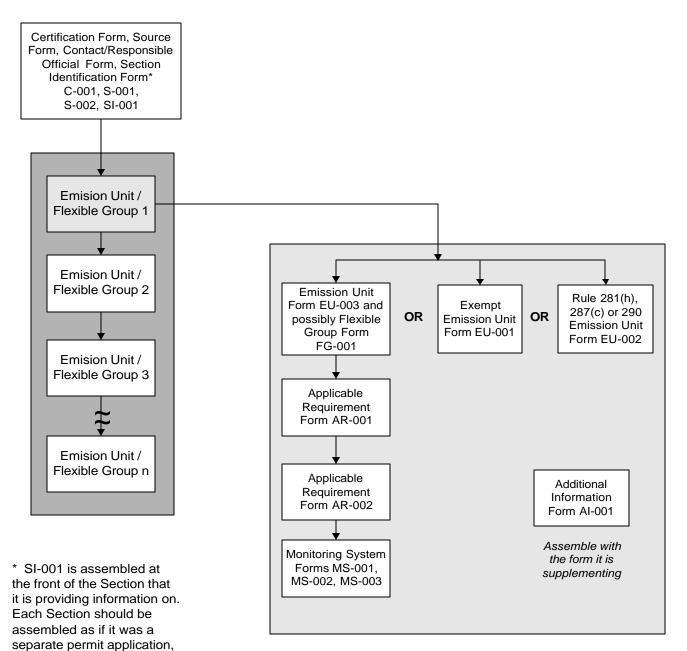
### FORM RELATIONSHIP AND APPLICATION ASSEMBLY

Form Relationships and Application Assembly for Amendments, Modifications and Notifications of Change are discussed in Part 3 of the instructions.

The Form Flow Diagram (Figure 1) was designed to show the connection between the different form types. It also represents a recommended form flow for completing the application. The RO Permit program is based on applicable requirements; therefore all of the forms may not be required for a complete application. The Application Assembly Diagram (Figure 2) and the detailed instructions for each form provide an explanation of how the forms are related.



### APPLICATION ASSEMBLY DIAGRAM FIGURE 2



7

following the flows on this

figure.

### SECTIONED RO PERMITS

An RO Permit application contains one section by default. It is not necessary to section the permit beyond this default. The sectioning option is provided to allow a source to further divide the RO Permit application by physical locations or different management organizations (i.e. responsible officials) within the stationary source.

An RO Permit may be sectioned to simplify certification requirements for a stationary source that has more than one responsible official. This is because each responsible official must certify compliance with all applicable requirements, including the General Requirements. As stated in the RO Permit detailed instructions, multiple sections may be created for a stationary source with multiple physical locations or multiple responsible officials. Sections should not be created for separating emission units, flexible groups, or buildings within a stationary source.

The following examples should clarify the sectioning concept.

- A chemical plant has 100 different buildings. Production is divided into three separate areas: pharmaceuticals, adhesives and pesticides. These three areas contain 400 different emission unit/process groups. For sectioning, the source could create three sections, one for each production area.
- An automotive assembly plant and a powerhouse have 700 emission unit/process groups. For sectioning, the source could create two sections, one for the assembly plant and one for the powerhouse.
- A gas processing plant and a gas sweetening plant located on adjacent properties with different owners. For sectioning, the source could create two sections, one for the gas processing plant and one for the gas sweetening plant.
- A landfill and a landfill gas processing plant located on adjacent properties with different owners. For sectioning, the source could create two sections, one for the landfill and one for the landfill gas processing plant.

### APPLICATION SUBMITTAL

### ELECTRONIC SUBMITTAL

The RO Permit Application may be generated and submitted electronically by using the PASS software. Contact the District Office as identified in Appendix A or the AQD Internet site at <u>http://www.deq.state.mi.us/aqd</u> for a list of acceptable electronic submittal methods. Although the RO Permit Application is submitted electronically, a paper copy of the application forms must also be submitted. The PASS software allows the company to print the application forms. The RO Permit application package must be assembled in accordance with the Application Assembly Diagram (Figure 2). All submittals should be made to the appropriate AQD District Office. Use Appendix C to locate the county name in which the source is physically located and determine the appropriate AQD District Office.

### PAPER SUBMITTAL

All information must be printed out from the PASS software or hand-printed clearly in ink or typed. Photocopies of the original blank application forms may be made in order to prepare a complete paper submittal. The RO Permit application package must be assembled in accordance with the Application Assembly Diagram (Figure 2). All submittals should be made to the appropriate AQD District Office. Use Appendix C to locate the county name in which the source is physically located and determine the appropriate AQD District Office.

### DEFINITIONS

Administrative Amendments: Defined in Rule 216(1). See *Revised Operational Memorandum No. 2* - *Changes at a Stationary Source after RO Permit Issuance* or AQD guidance documents for details regarding administrative amendments of RO Permits.

Applicable Requirement: Defined in Rule 101(o).

**Best Available Control Technology (BACT)**: An emission limitation based on the maximum degree of emission reductions that can be achieved through the application of available production methods, systems and techniques. Energy costs, environmental and economic impacts, and other factors are also taken into consideration.

**Clean Air Act (CAA)**: Amendments to the federal Clean Air Act were signed into law on November 15, 1990. The main points of the amendments include attainment deadlines for non-attainment areas for National Ambient Air Quality Standard (NAAQS) pollutants, guidelines for reduction of motor vehicle emissions, and air toxics that utilize Maximum Achievable Control Technology (MACT) standards. Likewise, plans for reducing acid rain precursors, sulfur oxides (SO<sub>x</sub>) and nitrogen oxides (NO<sub>x</sub>), are outlined. The operating permit program is introduced in Title V, stating that every major pollution source must have an operating permit, renewed every five years, that specifies its compliance requirements. The remaining parts of the Act include enforcement, climatic protection through the phase-out of chlorofluorocarbons (CFCs) and other stratospheric ozone damaging chemicals, and the final part which provides for research programs and monitoring activities.

**Code of Federal Regulations (CFR)**: Regulations published by the executive departments and agencies of the federal government. Title 40 of the CFR contains all of the federal rules and regulations relating to protection of the environment.

**Confidential Information**: Specific information identified as confidential in the application which will not be made available to the general public. Information which may be kept confidential is limited. An Al-001 must be completed for all confidential information. See *Operational Memorandum No.* 10 – *Procedures for Handling of Confidential Materials and Freedom of Information Requests for Confidential Materials* for details on what may be kept confidential. Additional instructions concerning confidential information can be found in the instructions for Al-001.

**Emission Unit**: A device or a group of devices that operate together with a dependency between devices. An emission unit contains one or more process devices and zero or more control devices and related stacks. See *Operational Memorandum No. 6 – Procedures for Determining Emission Units* for additional guidance on determining emission units.

**Exempt Emission Unit**: A device or a group of devices that operate together with a dependency between devices that are exempt from Rule 210 pursuant to Rule 212. See Rule 212 for a complete list of emission units that are exempt from Rule 210. Also refer to the detailed instructions for EU-001.

**Form Type**: An alphanumeric identifier created by the AQD to identify each form (e.g., S-001, EU-001, AR-001).

**Grandfathered**: The Michigan Air Pollution Control Rules became effective on August 15, 1967. Therefore, any emission unit constructed after August 15, 1967, would be subject to the regulatory requirements enacted on that date. Emission units installed, modified or reconstructed before August 15, 1967 are not required to apply for a permit to install pursuant to Rule 201. For example, an emission unit installed in January 1965 would be grandfathered from Rule 201 if it was not modified or reconstructed after August 15, 1967. In general, an emission unit is considered to be grandfathered if it was installed,

modified or reconstructed prior to the promulgation date of an applicable requirement, unless the applicable requirement applies to existing emission units.

**Hazardous Air Pollutants (HAPs)**: Air pollutants that are not covered by ambient air quality standards but which, as defined in the CAA, may reasonably be expected to cause or contribute to irreversible illness or death. The HAPs are defined in Section 112(b) of the CAA and listed in 40 CFR Part 63, Subpart C. A complete list of HAPs can be viewed at the USEPA web site. See Appendix B – Internet Sites for web site location.

**ID Prefix**: A code created by the AQD for specific types of IDs. The prefix becomes part of the ID and must be included whenever the ID is used. The following is a list of the ID prefixes:

MS – Monitoring Systems	SV – Stack and Vent	EU - Emission Unit (including exempt EU)
FG – Flexible Group	AR – Applicable Requirement	

**Maximum Achievable Control Technology (MACT)**: An emission limitation that is equivalent to or more stringent than an emission limitation achieved, in practice, by the best controlled similar affected source. The emission limitation shall reflect the maximum degree of reduction in emissions that the permitting authority determines is achievable by the constructed or reconstructed major source. See the USEPA Unified Air Toxics Website listed in Appendix B – Internet Sites. See also Operational Memorandum No. 15 – Procedures for Processing Permit Applications Subject to Federal Clean Air Act Section 112(g) for additional details regarding case-by-case MACT determinations. The MACT standards are published as National Emission Standard for Hazardous Air Pollutants (NESHAP) in 40 CFR Part 63.

Major Source: Defined in 40 CFR Part 70 – State Operating Permit Programs (70.2 Definitions).

**Minor Modification**: Defined in Rule 216(2). See *Revised Operational Memorandum No.* 2 - *Changes at a Stationary Source after RO Permit Issuance* or AQD guidance documents for details regarding minor modifications of RO Permits.

**Modification**: Making a physical or operational change in an existing emission unit which will increase the amount of any air contaminant not already allowed to be emitted under the conditions of a current permit or order. Also, a modification cannot result in the emission of any toxic air contaminant into the outer air not previously emitted. An increase in the hours of operation or an increase in the production rate up to the maximum capacity of the process or process equipment shall not be considered to be a change in the method of operation. The exception to this is if the process equipment is subject to enforceable permit conditions or enforceable orders which limit the production rate or the hours of operation; or both, to a level below the proposed increase.

**National Ambient Air Quality Standards (NAAQ S)**: Air quality standards established by the USEPA that apply to outside air throughout the country. The NAAQS set standards for six pollutants known as the criteria air pollutants to protect human health and welfare. The criteria air pollutants include: ozone  $(O_3)$ , carbon monoxide (CO), total suspended particulate matter (PM), sulfur dioxide (SO<sub>2</sub>), Lead (Pb), and nitrogen dioxide (NO<sub>2</sub>).

**National Emission Standard for Hazardous Air Pollutants (NESHAP)**: Emission standards set by the USEPA for air contaminants not covered by the NAAQS that may cause an increase in death or serious irreversible or incapacitating illness. The NESHAP regulations are promulgated in 40 CFR Parts 61 and 63. The NESHAP regulations promulgated prior to the CAA were published in 40 CFR Part 61. The NESHAP regulations promulgated as a result of the CAA are published in 40 CFR Part 63.

**New Source Review (NSR) Permit**: A Permit to Install, required by Rule 201, which authorizes the construction, installation, relocation or alteration of any process, fuel-burning, refuse-burning or control equipment in accordance with approved plans and specifications.

**New Source Performance Standards (NSPS)**: Uniform national USEPA air emissions standards that limit the amount of pollution allowed from specific new sources or from existing sources that have been modified or reconstructed. The purpose of NSPS is for new sources of emissions to emit less pollution than their predecessors. The NSPS regulations are promulgated in 40 CFR Part 60.

**Notification of Change**: Defined in Rule 215. See *Revised Operational Memorandum No. 2 - Changes at a Stationary Source after RO Permit Issuance* for details regarding Notice of Change for RO Permits.

**Operator's ID**: A unique ID created by the source to identify and reference information in the application. The Operator's ID consists of a pre-established ID Prefix (e.g., EU, FG, AR, MS and AI) and up to 14 additional alphanumeric characters. Please see the section *Creating Operator IDs*.

**Parametric Monitoring**: A system that tracks process operating data and/or control data and uses the data as indicators for emissions. Parameters that may be measured include: vapor pressure, pressure drop, air flow, liquid flow, temperature, viscosity, pH, breakthrough, horsepower, water to fuel ratio, pounds of pollutant per time period, pounds of VOC per gallon applied coating solids, or visible emissions. Predictive Emission Monitoring Systems (PEMS) and Recordkeeping are parametric monitoring systems.

**Periodic Monitoring**: Monitoring, recordkeeping, testing or reporting requirements that are sufficient for making a compliance determination for an emission limit and/or restrictions.

**Permit Application Submittal System (PASS)**: The RO Permit application may be generated and submitted electronically by using the PASS software. This software also allows the source to perform a preliminary electronic completeness check prior to submittal. The AQD is required to provide an administrative completeness determination and notification within 15 days of receipt of the submittal, pursuant to Rule 210(2)(a)(i)(B), when the PASS software is used by the applicant. This software is available upon request. See Appendix A for contact information.

**Potential to Emit (PTE)**: The maximum capacity of a stationary source to emit an air contaminant under its current physical and operational design. Any physical or operational limit on the capacity of the stationary source to emit an air contaminant (e.g., air pollution control equipment, restrictions on hours of operation, the type or amount of material combusted, stored or processed) shall be treated as part of its design only if such limit, or the effect it would have on emissions, is legally enforceable.

**Prevention of Significant Deterioration (PSD)**: A program that was established in Title I of the CAA and is used in the development of permits for new or modified sources in an area that is already in attainment. The intent of PSD is to prevent an attainment area from becoming a nonattainment area.

**Reasonably Achievable Control Technology (RACT)**: The lowest emissions limit that a particular source is capable of meeting by the application of control technology that is both reasonably available, as well as technologically and economically feasible. The RACT is usually applied to existing sources in nonattainment areas.

**Reconstruction**: The replacement of components of an existing emission unit so that the fixed capital cost of the new components is more than 50 percent of the fixed capital cost that would be required to construct a comparable new emission unit and so that it is technologically and economically feasible to meet the applicable requirement.

**Regulated Air Contaminant**: Any dust, fume, gas, mist, odor, smoke, vapor, or any combination thereof that is sanctioned under the Michigan Natural Resources and Environmental Protection Act or the Michigan Air Pollution Control Rules.

**Responsible Official**: Defined in Rule 118(j).

**Significant Modification**: Defined in Rule 216(3). See *Revised Operational Memorandum No. 2* - *Changes at a Stationary Source after RO Permit Issuance* for details regarding significant modifications of RO Permits.

**Source Classification Code (SCC)**: An eight-character code that provides a detailed description of the processes associated with an emission unit. Refer to the electronic SCC table on the Internet at <a href="http://www.deq.state.mi.us/aqd">http://www.deq.state.mi.us/aqd</a>. This table is also available upon request by contacting the AQD District Office for your area. See Appendix A for contact information.

**Source Wide Requirement**: Any applicable requirement that applies to the entire stationary source. For example, a synthetic minor HAP emission limit and associated recordkeeping that applies to the entire stationary source.

**State Registration Number (SRN)**: The alphanumeric identifier assigned to a stationary source by the AQD. The SRNs are unique to a source and are comprised of a letter followed by four digits (e.g., A1497). If a source does not have an SRN, leave the SRN blank on all application forms. An SRN will be assigned during the RO Permit application review. However, a source must have an SRN to use the PASS software.

**Stationary Source**: Defined in Rule 119(q). See *Operational Memorandum No. 11 – Stationary Source Determinations* for details regarding stationary source determinations.

**Title I** Refers to Title I of the CAA of 1990, which protects ambient air quality. Title I includes regulations pertaining to PSD, NSPS, NESHAP and NSR.

**Title V**: Refers to Title V of the CAA Amendments of 1990, which established the requirements for the RO Permit program.

Toxic Air Contaminant (TAC): Defined in Rule 120(f).

**Underlying Applicable Requirement**: The regulatory foundation on which an applicable requirement is based. For example, if an NSR permit contains a condition that limits the sulfur content in fuel oil, the permit condition is an applicable requirement. The underlying basis for creating this condition is Rule 401; therefore, Rule 401 is the underlying applicable requirement.

# Appendix B – Internet Sites

Air Quality	http://www.michigan.gov/deg/0,1607,7-135-3310,00.html	
Division (AQD)		
AQD Rule 212	http://www.deq.state.mi.us/aps/downloads/rop/ROPbackground/ROP_bkgrnd_support_R212.shtml	
Support Tables		
Environmental Sciences &		
Services Division	http://www.michigan.gov/deq/0,1607,7-135-3307,00.html	
(ESSD)		
Michigan		
Manufacturer's		
Guide to		
Environmental	http://www.michigan.gov/deq/0,1607,7-135-3307_3668_4148-15820,00.html	
and Safety and		
Health		
Regulations		
United States		
Environmental	http://www.epa.gov/	
Protection	http://www.epa.gov/	
Agency (USEPA)		
USEPA HAP List	http://www.epa.gov/oar/caa/caa112.txt	
USEPA Unified		
Air Toxics	http://www.epa.gov/ttn/atw/eparules.html	
Website		
Federal Acid Rain		
Program	http://www.epa.gov/airmarkets/arp/	
(40 CFR Part 72)		
USEPA Ozone		
Depletion Home	http://www.epa.gov/ozone/	
Page		
USEPA Technical		
Guidance		
Document:		
Compliance	http://www.epa.gov/ttn/emc/cam.html	
Assurance		
Monitoring (CAM)		
(40 CFR Part 64)		
USEPA White	http://www.epa.gov/ttn/oarpg/t5wp.html	
Paper No. 2		

## APPENDIX C COUNTY NAMES

Alcona Alger Allegan Alpena Antrim Arenac Baraga Barry Bay Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan Chippewa Clare Clinton Crawford Delta Dickinson Eaton Emmet Genesee Gladwin Gogebic **Grand Traverse** Gratiot Hillsdale Houghton Huron Ingham Ionia losco Iron Isabella Jackson Kalamazoo Kalkaska Kent Keweenaw

Lake Lapeer Leelanau Lenawee Livingston Luce Mackinac Macomb Manistee Marquette Mason Mecosta Menominee Midland Missaukee Monroe Montcalm Montmorency Muskegon Newaygo Oakland Oceana Ogemaw Ontonagon Osceola Oscoda Otsego Ottawa Presque Isle Roscommon Saginaw Saint Clair Saint Joseph Sanilac Schoolcraft Shiawassee Tuscola Van Buren Washtenaw Wayne Wexford

### APPENDIX D STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES

#### SIC CODE CLASSIFICATION

#### AGRICULTURAL PRODUCTION CROPS

0111 Wheat 0112 Rice 0115 Corn 0116 Soybeans 0119 Cash grains, nec Field Crops, Except Cash Grains 0131 Cotton 0132 Tobacco 0133 Sugarcane and sugar beets 0134 Irish potatoes 0139 Field crops, except cash grains, nec Vegetables and Melons 0161 Vegetables and melons Fruits and Tree Nuts 0171 Berry crops 0172 Grapes 0173 Tree nuts 0174 Citrus fruits 0175 Deciduous tree fruits 0179 Fruits and tree nuts, nec Horticultural Specialties 0181 Ornamental nursery products 0182 Food crops grown under cover 0189 Horticultural specialties, nec (1977) General Farms, Primaril y Crop 0191 General farms, primarily crop AGRICULTURAL PRODUCTION LIVESTOCK Livestock, Except Dairy and Poultry 0211 Beef cattle feedlots 0212 Beef cattle, except feedlots 0213 Hoas 0214 Sheep and goats 0219 General livestock, nec 0241 Dairy farms Poultry and Eggs 0251 Broiler, fryer, and roaster chickens 0252 Chicken eggs 0253 Turkeys and turkey eggs 0254 Poultry hatcheries 0259 Poultry and eggs, nec Animal Specialties 0271 Fur-bearing animals and rabbits 0272 Horses and other equines 0273 Animal aquaculture 0279 Animal specialties, nec General Farms, Primarily Animal 0291 General farms, primarily animal

SIC CODE CLASSIFICATION AGRICULTURAL SERVICES 0711 Soil preparation services Crop Services 0721 Crop planting and protecting 0722 Crop harvesting 0723 Crop preparation services for market 0724 Cotton ginning 0729 General crop services (1977) Veterinary Services 0741 Veterinary services for livestock 0742 Veterinary services, specialties Animal Services, Except Veterinary 0751 Livestock services, exc. veterinary 0752 Animal specialty services Farm Labor and Management Services 0761 Farm labor contractors 0762 Farm management services Landscape and Horticultural Services 0781 Landscape counseling and planning 0782 Lawn and garden services 0783 Ornamental shrub and tree services FORESTRY 0811 Timber tracts 0821 Forest nurseries & seed gathering (1977) Forest Products 0831 Forest products 0843 Extraction of pine gum (1977) 0849 Gathering of forest products (1977) 0851 Forestry services FISHING, HUNTING, AND TRAPPING **Commercial Fishing** 0912 Finfish 0913 Shellfish 0919 Miscellaneous marine products 0921 Fish hatcheries and preserves 0971 Hunting, trapping, game propagation METAL MINING 1011 Iron ores 1021 Copper ores 1031 Lead and zinc ores 1041 Gold ores 1044 Silver ores 1051 Bauxite and other aluminum ore (1977) 1061 Ferroalloy ores, except vanadium **Metal Mining Services** 1081 Metal mining services Miscellaneous Metal Ores 1092 Mercury ores (1977) 1094 Uranium-radium-vanadium ores

### SIC CODE CLASSIFICATION 1111 Anthracite (1977) 1112 Anthracite mining services (1977) COAL MINING 1211 Bituminous coal and lignite (1977) 1213 Bituminous & lignite mine services (1977) **Bituminous Coal and Lignite Mining** 1221 Bituminous coal and lignite surface 1222 Bituminous coal underground 1231 Anthracite mining 1241 Coal mining services OIL AND GAS EXTRACTION 1311 Crude petroleum and natural gas 1321 Natural das liquids Oil and Gas Field Services 1381 Drilling oil and gas wells 1382 Oil and gas exploration services 1389 Oil and gas field services, nec NONMETALLIC MINERALS, EXCEPT FUELS 1411 Dimension stone Crushed and Broken Stone 1422 Crushed and broken limestone 1423 Crushed and broken granite 1429 Crushed and broken stone, nec Sand and Gravel 1442 Construction sand and gravel 1446 Industrial sand Clay, Ceramic, & Refractory Minerals 1452 Bentonite (1977) 1453 Fire clay (1977) 1454 Fullers earth (1977) 1455 Kaolin and ball clay 1459 Clay and related minerals, nec **Chemical and Fertilizer Minerals** 1472 Barite (1977) 1473 Fluorspar (1977) 1474 Potash, soda, and borate minerals 1475 Phosphate rock 1476 Rock salt (1977) 1477 Sulfur (1977) 1479 Chemical and fertilizer mining, nec 1481 Nonmetallic minerals services **Miscellaneous Nonmetallic Minerals** 1492 Gypsum (1977)

- 1496 Talc soapstone & pyrophylite (1977)
- 1499 Miscellaneous nonmetallic minerals <u>GENERAL BUILDING CONTRACTORS</u> Residential Building Construction
- 1521 Single-family housing construction
- 1522 Residential construction, nec
- 1531 Operative builders

1099 Metal ores, nec

SIC CODE CLASSIFICATION Nonresidential Building Construction 1541 Industrial buildings and warehouses 1542 Nonresidential construction, nec HEAVY CONSTRUCTION, EX. BUILDING 1611 Highway and street construction Heavy Construction, Except Highway 1622 Bridge, tunnel, & elevated highway 1623 Water, sewer, and utility lines 1629 Heavy construction, nec SPECIAL TRADE CONTRACTORS 1711 Plumbing, heating, air-conditioning 1721 Painting and paper hanging 1731 Electrical work Masonry, Stonework, and Plastering 1741 Masonry and other stonework 1742 Plastering, drywall, and insulation 1743 Terrazzo, tile, marble, mosaic work Carpentry and Floor Work 1751 Carpentry work 1752 Floor laying and floor work, nec 1761 Roofing, siding, and sheet metal work 1771 Concrete work 1781 Water well drilling **Misc. Special Trade Contractors** 1791 Structural steel erection 1793 Glass and glazing work 1794 Excavation work 1795 Wrecking and demolition work 2083 Malt 1796 Installing building equipment, nec 1799 Special trade contractors, nec FOOD AND KINDRED PRODUCTS Meat Products 2011 Meat packing plants 2013 Sausages and other prepared meats 2015 Poultry slaughtering and processing 2016 Poultry dressing plants (1977) 2017 Poultry and egg processing (1977) **Dairy Products** 2021 Creamery butter 2022 Cheese, natural and processed 2023 Dry, condensed, evaporated products 2024 Ice cream and frozen desserts 2026 Fluid milk Preserved Fruits and Vegetables 2032 Canned specialties 2131 Chewing and smoking tobacco 2033 Canned fruits and vegetables 2141 Tobacco stemming and redrying 2034 Dehydrated fruits, vegetables, soups TEXTILE MILL PRODUCTS 2035 Pickles, sauces, and salad dressings 2211 Broadwoven fabric mills, cotton 2221 Broadwoven fabric mills manmade 2037 Frozen fruits and vegetables

### SIC CODE CLASSIFICATION Grain Mill Products 2041 Flour and other grain mill products 2043 Cereal breakfast foods 2044 Rice milling 2045 Prepared flour mixes and doughs 2046 Wet corn milling 2047 Dog and cat food 2048 Prepared feeds, nec Bakery Products 2051 Bread, cake, and related products 2052 Cookies and crackers 2053 Frozen bakery products, except bread Sugar and Confectionery Products 2061 Raw cane sugar 2062 Cane sugar refining 2063 Beet sugar 2064 Candy & other confectionery products 2066 Chocolate and cocoa products 2067 Chewing gum 2068 Salted and roasted nuts and seeds Eats and Oils 2074 Cottonseed oil mills 2075 Sovbean oil mills 2076 Vegetable oil mills, nec 2077 Animal and marine fats and oils 2079 Edible fats and oils, nec Beverages 2082 Malt beverages 2084 Wines, brandy, and brandy spirits 2085 Distilled and blended liquors 2086 Bottled and canned soft drinks 2087 Flavoring extracts and syrups, nec Misc. Food and Kindred Products 2091 Canned and cured fish and seafoods 2092 Fresh or frozen prepared fish 2095 Roasted coffee 2096 Potato chips and similar snacks 2097 Manufactured ice 2098 Macaroni and spaghetti 2099 Food preparations, nec TOBACCO PRODUCTS 2111 Cigarettes 2121 Cigars

**Knitting Mills** 2251 Women's hosiery, except socks 2252 Hosiery, nec 2253 Knit outerwear mills 2254 Knit underwear mills 2257 Weft knit fabric mills 2258 Lace & warp knit fabric mills 2259 Knitting mills, nec Textile Finishing, Except Wool 2261 Finishing plants, cotton 2262 Finishing plants, manmade 2269 Finishing plants, nec Carpets and Rugs 2271 Woven carpets and rugs (1977) 2272 Tufted carpets and rugs (1977) 2273 Carpets and rugs 2279 Carpets and rugs, nec (1977) Yarn and Thread Mills 2281 Yarn spinning mills 2282 Throwing and winding mills 2283 Wool yarn mills (1977) 2284 Thread mills Miscellaneous Textile Goods 2291 Felt goods exc woven felt/hats (1977) 2292 Lace goods (1977) 2293 Padding & upholstery filling (1977) 2294 Processed textile waste (1977) 2295 Coated fabrics, not rubberized 2296 Tire cord and fabrics 2297 Nonwoven fabrics 2298 Cordage and twine 2299 Textile goods, nec APPAREL AND OTHER TEXTILE PRODUCTS 2311 Men's and boys' suits and coats Men's and Boys' Furnishings 2321 Men's and boys' shirts 2322 Men's & boys' underwear + nightwear 2323 Men's and boys' neckwear 2325 Men's and boys' trousers and slacks 2326 Men's and boys' work clothing 2327 Men & boys separate trousers (1977) 2328 Men and boys work clothing (1977) 2329 Men's and boys' clothing, nec Women's and Misses' Outerwear 2331 Women's & misses' blouses & shirts 2335 Women's junior's & misses' dresses 2337 Women's and misses' suits and coats

SIC CODE CLASSIFICATION

2339 Women's and misses' outerwear, nec

Women's and Children's Undergarments 2341 Women's and children's underwear 2342 Bras, girdles, and allied garments

2231 Broadwoven fabric mills, wool

2241 Narrow fabric mills

<sup>2038</sup> Frozen specialties, nec

SIC CODE	CLASSIFICATION
	Hats, Caps, and Millinery
2351	Millinery (1977)
2352	Hats & caps exc millinery (1977)
2353	Hats, caps, and millinery
	Girls' and Children's Outerwear
2361	Girls' & children's dresses, blouses
2363	Childrens coats and suits (1977)
2369	Girls' and children's outerwear, nec
2371	Fur goods
	Miscellaneous Apparel and Accessories
2381	Fabric dress and work gloves
2384	Robes and dressing gowns
2385	Waterproof outerwear
2386	Leather and sheep-lined clothing
2387	Apparel belts
2389	Apparel and accessories, nec
	Misc. Fabricated Textile Products
2391	Curtains and draperies
2392	Housefurnishings, nec
2393	Textile bags
2394	Canvas and related products
2395	Pleating and stitching
2396	Automotive and apparel trimmings
2397	Schiffli machine embroideries
2399	Fabricated textile products, nec
	LUMBER AND WOOD PRODUCTS
2411	Logging
	· ··· · · · · ····
2424	Sawmills and Planing Mills
	Sawmills and planing mills, general
2426	Sawmills and planing mills, general Hardwood dimension & flooring mills
2426	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec
2426 2429	Sawmills and planing mills, general Hardwood dimension & flooring mills
2426 2429 2431	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members
2426 2429 2431 2434	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork
2426 2429 2431 2434 2435	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets
2426 2429 2431 2434 2435 2435	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood
2426 2429 2431 2434 2435 2435	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood
2426 2429 2431 2434 2435 2436 2439	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec
2426 2429 2431 2434 2435 2435 2439 2439	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers
2426 2429 2431 2434 2435 2435 2439 2439 2441 2448	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook
2426 2429 2431 2434 2435 2435 2439 2439 2441 2448	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood pallets and skids
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood pallets and skids Wood containers, nec
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449 2451	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood pallets and skids Wood containers, nec Wood Buildings and Mobile Homes
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449 2451	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood containers, nec Wood containers, nec Wood containers, nec Mood Buildings and Mobile Homes Mobile homes
2426 2429 2431 2434 2435 2436 2439 2441 2448 2448 2449 2451 2452	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood pallets and skids Wood containers, nec Wood Buildings and Mobile Homes Mobile homes Prefabricated wood buildings
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449 2451 2452 2491	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood pallets and skids Wood containers, nec Wood Buildings and Mobile Homes Mobile homes Prefabricated wood buildings Miscellaneous Wood Products
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449 2451 2452 2491 2492	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood containers, nec Wood pallets and skids Wood containers, nec Wood Buildings and Mobile Homes Mobile homes Prefabricated wood buildings Miscellaneous Wood Products Wood preserving
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449 2451 2452 2491 2492 2493	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood pallets and skids Wood containers, nec Wood Buildings and Mobile Homes Prefabricated wood buildings Miscellaneous Wood Products Wood preserving Particleboard (1977) Reconstituted wood products Wood products, nec
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449 2451 2452 2491 2492 2493	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood containers, nec Wood pallets and skids Wood containers, nec Wood Buildings and Mobile Homes Mobile homes Prefabricated wood buildings Miscellaneous Wood Products Wood preserving Particleboard (1977) Reconstituted wood products Wood products, nec FURNITURE AND FIXTURES
2426 2429 2431 2435 2436 2439 2441 2448 2449 2451 2452 2491 2452 2491 2492 2493 2499	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood containers, nec Wood containers, nec Wood Buildings and Mobile Homes Mobile homes Prefabricated wood buildings Miscellaneous Wood Products Wood preserving Particleboard (1977) Reconstituted wood products Wood products, nec FURNITURE AND FIXTURES Household Furniture
2426 2429 2431 2434 2435 2436 2439 2441 2448 2449 2451 2452 2491 2492 2493 2499	Sawmills and planing mills, general Hardwood dimension & flooring mills Special product sawmills, nec Millwork, Plywood & Structural Members Millwork Wood kitchen cabinets Hardwood veneer and plywood Softwood veneer and plywood Structural wood members, nec Wood Containers Nailed wood boxes and shook Wood containers, nec Wood pallets and skids Wood containers, nec Wood Buildings and Mobile Homes Mobile homes Prefabricated wood buildings Miscellaneous Wood Products Wood preserving Particleboard (1977) Reconstituted wood products Wood products, nec FURNITURE AND FIXTURES

SIC CODE	CLASSIFICATION
	Metal household furniture
2515	Mattresses and bedsprings
2517	Wood TV and radio cabinets
2519	Household furniture, nec
	Office Furniture
2521	Wood office furniture
2522	Office furniture, except wood
	Public building & related furniture
	Partitions and Fixtures
2541	Wood partitions and fixtures
	Partitions and fixtures, except wood
	Miscellaneous Furniture and Fixtures
2591	Drapery hardware & blinds & shades
2599	Furniture and fixtures, nec
	PAPER AND ALLIED PRODUCTS
2611	Pulp mills
2621	Paper mills
	Paperboard Mills
2631	Paperboard mills
	Paper coating and glazing (1977)
	Envelopes (1977)
	Bags, except textile bags (1977)
	Die-cut paper and board (1977)
	Pressed and molded pulp goods (1977)
	Sanitary paper products (1977)
	Stationery products (1977)
	Converted paper products, nec (1977)
	Paperboard Containers and Boxes
2651	Folding paperboard boxes (1977)
	Setup paperboard boxes
	Corrugated and solid fiber boxes
2654	Sanitary food containers (1977)
2655	Fiber cans, drums & similar products
2656	Sanitary food containers
2657	Folding paperboard boxes
2661	Building paper and board mills (1977)
	Misc. Converted Paper Products
2671	Paper coated & laminated, packaging
2672	Paper coated and laminated, nec
2673	Bags: plastics, laminated, & coated
	Bags: uncoated paper & multiwall
2675	Die-cut paper and board
2676	Sanitary paper products
2677	Envelopes
2678	Stationery products
2679	Converted paper products, nec
	PRINTING AND PUBLISHING
2711	Newspapers
2721	Periodicals
	Books
2731	Book publishing
2732	Book printing
2741	Miscellaneous publishing

SIC CODE	CLASSIFICATION
	Commercial Printing
2751	Commercial printing letterpress (1977)
2752	Commercial printing, lithographic
2753	Engraving and plate printing (1977)
2754	Commercial printing, gravure
2759	Commercial printing, nec
2761	Manifold business forms
2771	Greeting cards
	Blankbooks and Bookbinding
2782	Blankbooks and looseleaf binders
2789	Bookbinding and related work
	Printing Trade Services
2791	Typesetting
	Photoengraving (1977)
	Electrotyping and stereotyping (1977)
	Lithographic platemaking services (1977
2796	Platemaking services
	CHEMICALS AND ALLIED PRODUCTS
0040	Industrial Inorganic Chemicals
	Alkalies and chlorine
	Industrial gases
	Inorganic pigments
2019	Industrial inorganic chemicals, nec Plastics Materials and Synthetics
2821	Plastics materials and resins
	Synthetic rubber
	Cellulosic manmade fibers
	Organic fibers, noncellulosic
	Drugs
2831	Biological products (1977)
2833	Medicinals and botanicals
2834	Pharmaceutical preparations
2835	Diagnostic substances
2836	Biological products exc. diagnostic
	Soap, Cleaners, and Toilet Goods
2841	Soap and other detergents
2842	Polishes and sanitation goods
2843	Surface active agents
2844	Toilet preparations
2851	Paints and allied products
	Industrial Organic Chemicals
	Gum and wood chemicals
	Cyclic crudes and intermediates
2869	Industrial organic chemicals, nec
	Agricultural Chemicals
	Nitrogenous fertilizers
	Phosphatic fertilizers
	Fertilizers, mixing only
2879	Agricultural chemicals, nec Miscellaneous Chemical Products
2004	Adhesives and sealants
	Explosives
	Printing ink
2093	

SIC CODE CLASSIFICATION 2895 Carbon black 2899 Chemical preparations, nec PETROLEUM AND COAL PRODUCTS 2911 Petroleum refining Asphalt Paving and Roofing Materials 2951 Asphalt paving mixtures and blocks 2952 Asphalt felts and coatings **Misc. Petroleum and Coal Products** 2992 Lubricating oils and greases 2999 Petroleum and coal products, nec RUBBER AND MISC. PLASTICS PRODUCTS 3011 Tires and inner tubes **Rubber and Plastics Footwear** 3021 Rubber and plastics footwear 3031 Reclaimed rubber (1977) 3041 Rubber and plastics hose and belting (1977) Hose & Belting & Gaskets & Packing 3052 Rubber & plastics hose & belting 3053 Gaskets, packing and sealing devices Fabricated Rubber Products, NEC 3061 Mechanical rubber goods 3069 Fabricated rubber products, nec 3079 Miscellaneous plastics products (1977) **Miscellaneous Plastics Products, NEC** 3081 Unsupported plastics film & sheet 3082 Unsupported plastics profile shapes 3083 Laminated plastics plate & sheet 3084 Plastics pipe 3085 Plastics bottles 3086 Plastics foam products 3087 Custom compound purchased resins 3088 Plastics plumbing fixtures 3089 Plastics products, nec LEATHER AND LEATHER PRODUCTS 3111 Leather tanning and finishing 3131 Footwear cut stock Footwear, Except Rubber 3142 House slippers 3143 Men's footwear, except athletic 3144 Women's footwear, except athletic 3149 Footwear, except rubber, nec 3151 Leather gloves and mittens 3161 Luggage Handbags and Personal Leather Goods 3171 Women's handbags and purses 3172 Personal leather goods, nec 3199 Leather goods, nec STONE, CLAY, AND GLASS PRODUCTS 3211 Flat glass Glass and Glassware, Pressed or Blown 3221 Glass containers 3229 Pressed and blown glass, nec

SIC CODE CLASSIFICATION 3231 Products of purchased glass 3241 Cement, hydraulic Structural Clay Products 3251 Brick and struct ural clay tile 3253 Ceramic wall and floor tile 3255 Clav refractories 3259 Structural clay products, nec Pottery and Related Products 3261 Vitreous plumbing fixtures 3262 Vitreous china table & kitchenware 3263 Semivitreous table & kitchenware 3264 Porcelain electrical supplies 3269 Pottery products, nec Concrete, Gypsum, and Plaster Products 3271 Concrete block and brick 3272 Concrete products, nec 3273 Ready-mixed concrete 3274 Lime 3275 Gypsum products 3281 Cut stone and stone products Misc. Nonmetallic Mineral Products 3291 Abrasive products 3292 Asbestos products 3293 Gaskets/packing/sealing device (1977) 3295 Minerals, ground or tr eated 3296 Mineral wool 3297 Nonclay refractories 3299 Nonmetallic mineral products, nec PRIMARY METAL INDUSTRIES Blast Furnace and Basic Steel Products 3312 Blast furnaces and steel mills 3313 Electrometallurgical products 3315 Steel wire and related products 3316 Cold finishing of steel shapes 3317 Steel pipe and tubes Iron and Steel Foundries 3321 Gray and ductile iron foundries 3322 Malleable iron foundries 3324 Steel investment foundries 3325 Steel foundries nec Primary Nonferrous Metals 3331 Primary copper 3332 Primary lead (1977) 3333 Primary zinc (1977) 3334 Primary aluminum 3339 Primary nonferrous metals, nec 3341 Secondary nonferrous metals Nonferrous Rolling and Drawing 3351 Copper rolling and drawing 3353 Aluminum sheet, plate, and foil 3354 Aluminum extruded products 3355 Aluminum rolling and drawing, nec

SIC CODE CLASSIFICATION 3356 Nonferrous rolling and drawing, nec 3357 Nonferrous wiredrawing & insulating Nonferrous Foundries (Castings) 3361 Aluminum foundries (1977) 3362 Brass bronze & copper foundry (1977) 3363 Aluminum die-castings 3364 Nonferrous die-casting exc. aluminum 3365 Aluminum foundries 3366 Copper foundries 3369 Nonferrous foundries, nec Miscellaneous Primary Metal Products 3398 Metal heat treating 3399 Primary metal products, nec FABRICATED METAL PRODUCTS Metal Cans and Shipping Containers 3411 Metal cans 3412 Metal barrels, drums, and pails Cutlery, Handtools, and Hardware 3421 Cutlerv 3423 Hand and edge tools, nec 3425 Saw blades and handsaws 3429 Hardware, nec Plumbing and Heating, Except Electric 3431 Metal sanitary ware 3432 Plumbing fixture fittings and trim 3433 Heating equipment, except electric Fabricated Structural Metal Products 3441 Fabricated structural metal 3442 Metal doors, sash, and trim 3443 Fabricated plate work (boiler shops) 3444 Sheet metalwork 3446 Architectural metal work 3448 Prefabricated metal buildings 3449 Miscellaneous metal work Screw Machine Products. Bolts. Etc. 3451 Screw machine products 3452 Bolts nuts rivets and washers Metal Forgings and Stampings 3462 Iron and steel forgings 3463 Nonferrous forgings 3465 Automotive stampings 3466 Crowns and closures 3469 Metal stampings, nec Metal Services, NEC 3471 Plating and polishing 3479 Metal coating and allied services Ordnance and Accessories, NEC 3482 Small arms ammunition 3483 Ammunition, exc. for small arms, nec 3484 Small arms 3489 Ordnance and accessories, nec

SIC CODE	CLASSIFICATION				
	Misc. Fabricated Metal Products				
3491	Industrial valves				
3492	Fluid power valves & hose fittings				
3493	Steel springs, except wire				
3494	Valves and pipe fittings, nec				
3495	Wire springs				
3496	Misc. fabricated wire products				
3497	Metal foil and leaf				
3498	Fabricated pipe and fittings				
3499	Fabricated metal products, nec				
	INDUSTRIAL MACHINERY AND EQUIPMENT				
	Engines and Turbines				
3511	Turbines and turbine generator sets				
3519	Internal combustion engines, nec				
	Farm and Garden Machinery				
3523	Farm machinery and equipment				
3524	Lawn and garden equipment				
	Construction and Related Machinery				
3531	Construction machinery				
3532	Mining machinery				
3533	Oil and gas field machinery				
3534	Elevators and moving stairways				
3535	Conveyors and conveying equipment				
3536	Hoists, cranes, and monorails				
3537	Industrial trucks and tractors				
	Metalworking Machinery				
3541	Machine tools, metal cutting types				
3542	Machine tools, metal forming types				
3543	Industrial patterns				
3544	Special dies, tools, jigs & fixtures				
3545	Machine tool accessories				
3546	Power-driven handtools				
3547	Rolling mill machinery				
	Welding apparatus				
3549	Metalworking machinery, nec				
	Special Industry Machinery				
	Textile machinery				
	Woodworking machinery				
	Paper industries machinery				
	Printing trades machinery				
	Food products machinery				
3559	Special industry machinery, nec				
0504	General Industrial Machinery				
	Pumps and pumping equipment				
	Ball and roller bearings				
	Air and gas compressors Blowers and fans				
	Packaging machinery				
	Speed changers, drives, and gears				
	Industrial furnaces and ovens				
	Power transmission equipment, nec				
	General industrial machinery, nec				
5005					

SIC CODE	CLASSIFICATION	
	Computer and Office Equipment	
3571	Electronic computers	
	Computer storage devices	
	Electronic computing equipment (1977)	
	Calculating & accounting machines (1977)	
	Computer terminals	
	Scales & balances exc lab (1977)	
	Computer peripheral equipment, nec	
	Calculating and accounting equipment	
	Office machines, nec	
0010	Refrigeration and Service Machinery	
3581	Automatic vending machines	
	Commercial laundry equipment	
	Refrigeration and heating equipment	
	Measuring and dispensing pumps	
	Service industry machinery, nec	
0000	Industrial Machinery, NEC	
3502	Carburetors, pistons, rings, valves	
	Fluid power cylinders & actuators	
	Fluid power pumps and motors	
	Scales and balances, exc. laboratory	
	Industrial machinery, nec	
3399	ELECTRONIC & OTHER ELECTRIC EQUIPMENT	
	Electric Distribution Equipment	
2010		
	Transformers, except electronic Switchgear and switchboard apparatus	
3013		
2621	Electrical Industrial Apparatus Motors and generators	
	Industrial controls (1977)	
	Welding apparatus, electric (1977)	
	Carbon and graphite products	
	Relays and industrial controls	
	Electrical industrial apparatus, nec	
0020	Household Appliances	
3631	Household cooking equipment	
	Household refrigerators and freezers	
	Household laundry equipment	
	Electric housewares and fans	
	Household vacuum cleaners	
	Sewing machines (1977)	
	Household appliances, nec	
0000	Electric Lighting and Wiring Equipment	
3641	Electric lamps	
	Current-carrying wiring devices	
	Noncurrent-carrying wiring devices	
	Residential lighting fixtures	
	Commercial lighting fixtures	
	Vehicular lighting equipment	
	Lighting equipment, nec	
50-0	Household Audio and Video Equipment	
3651	Household audio and video equipment	
	Prerecorded records and tapes	
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**Communications Equipment** 3661 Telephone and telegraph apparatus 3662 Radio/tv communication equipment (1977) 3663 Radio & TV communications equipment 3669 Communications equipment, nec **Electronic Components and Accessories** 3671 Electron tubes 3672 Printed circuit boards 3673 Electron tubes, transmitting (1977) 3674 Semiconductors and related devices 3675 Electronic capacitors 3676 Electronic resistors 3677 Electronic coils and transformers 3678 Electronic connectors 3679 Electronic components, nec Misc. Electrical Equipment & Supplies 3691 Storage batteries 3692 Primary batteries, dry and wet 3693 X-ray apparatus and tubes (1977) 3694 Engine electrical equipment 3695 Magnetic and optical recording media 3699 Electrical equipment & supplies, nec TRANSPORTATION EQUIPMENT Motor Vehicles and Equipment 3711 Motor vehicles and car bodies 3713 Truck and bus bodies 3714 Motor ve hicle parts and accessories 3715 Truck trailers 3716 Motor homes Aircraft and Parts 3721 Aircraft 3724 Aircraft engines and engine parts 3728 Aircraft parts and equipment, nec Ship and Boat Building and Repairing 3731 Ship building and repairing 3732 Boat building and repairing 3743 Railroad equipment 3751 Motorcycles, bicycles, and parts Guided Missiles, Space Vehicles, Parts 3761 Guided missiles and space vehicles 3764 Space propulsion units and parts 3769 Space vehicle equipment, nec MiscellaneousTransportation Equipment 3792 Travel trailers and campers 3795 Tanks and tank components 3799 Transportation equipment, nec INSTRUMENTS AND RELATED PRODUCTS Search and Navigation Equipment 3811 Engineering & scientific instruments (1977) 3812 Search and navigation equipment Measuring and Controlling Devices 3821 Laboratory apparatus and furniture

SIC CODE CLASSIFICATION

SIC CODE CLASSIFICATION 3822 Environmental controls 3823 Process control instruments 3824 Fluid meters and counting devices 3825 Instruments to measure electricity 3826 Analytical instruments 3827 Optical instruments and lenses 3829 Measuring & controlling devices, nec 3832 Optical instruments and lenses (1977) Medical Instruments and Supplies 3841 Surgical and medical instruments 3842 Surgical appliances and supplies 3843 Dental equipment and supplies 3844 X-ray apparatus and tubes 3845 Electromedical equipment 3851 Ophthalmic goods 3861 Photographic equipment and supplies 3873 Watches, clocks, watchcases & parts MISCELLANEOUS MANUFACTURING INDUSTRIES Jewelry, Silverware, and Plated Ware 3911 Jewelry, precious metal 3914 Silverware and plated ware 3915 Jewelers' materials & lapidary work 3931 Musical instruments Toys and Sporting Goods 3942 Dolls and stuffed toys 3944 Games, toys, and children's vehicles 3949 Sporting and athletic goods, nec Pens, Pencils, Office, & Art Supplies 3951 Pens and mechanical pencils 3952 Lead pencils and art goods 3953 Marking devices 3955 Carbon paper and inked ribbons **Costume Jewelry and Notions** 3961 Costume jewelry 3962 Artificial flowers (1977) 3963 Buttons (1977) 3964 Needles, pins, and fasteners (1977) 3965 Fasteners, buttons, needles, & pins **Miscellaneous Manufactures** 3991 Brooms and brushes 3993 Signs and advertising specialities 3995 Burial caskets 3996 Hard surface floor coverings, nec 3999 Manufacturing industries, nec **RAILROAD TRANSPORTATION** Railroads 4011 Railroads, line-haul operating 4013 Switching and terminal services 4041 Railway express service (1977) LOCAL AND INTERURBAN PASSENGER TRANSIT Local and Suburban Transportation 4111 Local and suburban transit

4119 Local passenger transportation, nec

SIC CODE CLASSIFICATION 4121 Taxicabs 4131 Intercity & rural bus transportation **Bus Charter Service** 4141 Local bus charter service 4142 Bus charter service, except local 4151 School buses **BUS TERMINAL FACILITIES** 4172 Bus service facilities (1977) 4173 Bus terminal and service facilities TRUCKING AND WAREHOUSING Trucking & Courier Services, Ex. Air 4212 Local trucking, without storage 4213 Trucking, except local 4214 Local trucking with storage 4215 Courier services, except by air Public Warehousing and Storage 4221 Farm product warehousing and storage 4222 Refrigerated warehousing and storage 4224 Household goods warehousing (1977) 4225 General warehousing and storage 4226 Special warehousing and storage, nec 4231 Trucking terminal facilities U.S. POSTAL SERVICE 4311 U.S. Postal Service WATER TRANSPORTATION Deep Sea Foreign Trans. of Freight 4411 Deep sea foreign transportation (1977) 4412 Deep sea foreign trans. of freight Deep Sea Domestic Trans. of Freight 4421 Noncontiguous area transportation (1977) 4422 Coastwise transportation (1977) 4423 Intercoastal transportation (1977) 4424 Deep sea domestic trans, of freight Freight Trans, on the Great Lakes 4431 Great lakes transportation (1977) 4432 Freight trans. on the Great Lakes Water Transportation of Freight, NEC 4441 Transport on rivers & canals (1977) 4449 Water transportation of freight, nec 4452 Ferries (1977) 4453 Lighterage (1977) 4454 Towing and tugboat service (1977) 4459 Local water transportation, nec (1977) 4463 Marine cargo handling (1977) 4464 Canal operation (1977) 4469 Water transportation services (1977) Water Transportation of Passengers 4481 Deep sea passenger trans., ex. ferry 4482 Ferries 4489 Water passenger transportation, nec Water Transportation Services 4491 Marine cargo handling

4493 Marinas 4499 Water transportation services, nec TRANSPORTATION BY AIR Air Transportation, Scheduled 4511 Certificated air transportation (1977) 4512 Air transportation, scheduled 4513 Air courier services Air Transportation, Nonscheduled 4521 Noncertificated air transportation (1977) 4522 Air transportation, nonscheduled Airports, Flying Fields, & Services 4581 Airports, flying fields, & services 4582 Airports and flying fields (1977) 4583 Airport terminal services (1977) PIPELINES, EXCEPT NATURAL GAS Pipelines, Except Natural Gas 4612 Crude petroleum pipelines 4613 Refined petroleum pipelines 4619 Pipelines, nec TRANSPORTATION SERVICES 4712 Freight forwarding (1977) Passenger Transportation Arrangement 4722 Passenger transport arrangement (1977) 4723 Freight transport arrangement (1977) 4724 Travel agencies 4725 Tour operators 4729 Passenger transport arrangement, nec 4731 Freight transportation arrangement **Rental of Railroad Cars** 4741 Rental of railroad cars 4742 Railroad car rental with service (1977) 4743 Railroad rental car w/o service (1977) **Miscellaneous Transportation Services** 4782 Inspection & weighing services (1977) 4783 Packing and crating 4784 Fixed facilities for vehicles (1977) 4785 Inspection & fixed facilities 4789 Transportation services, nec COMMUNICATION **Telephone Communication** 4811 Telephone communication (1977) 4812 Radiotelephone communications 4813 Telephone communications, exc. radio **Telegraph & Other Communications** 4821 Telegraph communication (1977) 4822 Telegraph & other communications Radio and Television Broadcasting 4832 Radio broadcasting stations 4833 Television broadcasting stations 4841 Cable and other pay TV services

SIC CODE CLASSIFICATION

- 4899 Communication services, nec <u>ELECTRIC, GAS, AND SANITARY SERVICES</u>
- 4911 Electric services

4492 Towing and tugboat service

SIC CODE CLASSIFICATION Gas Production and Distribution 4922 Natural gas transmission 4923 Gas transmission and distribution 4924 Natural gas distribution 4925 Gas production and/or distribution **Combination Utility Services** 4931 Electric and other services combined 4932 Gas and other services combined 4939 Combination utilities nec 4941 Water supply Sanitary Services 4952 Sewerage systems 4953 Refuse systems 4959 Sanitary services, nec 4961 Steam and air-conditioning supply 4971 Irrigation systems WHOLESALE TRADE DURABLE GOODS Motor Vehicles, Parts, and Supplies 5012 Automobiles and other motor ve hicles 5013 Motor vehicle supplies and new parts 5014 Tires and tubes 5015 Motor vehicle parts, used Furniture and Homefurnishings 5021 Furniture 5023 Homefurnishings Lumber and Construction Materials 5031 Lumber, plywood, and millwork 5032 Brick, stone, & related materials 5033 Roofing, siding, & insulation 5039 Construction materials, nec **Professional & Commercial Equipment** 5041 Sporting & recreational goods (1977) 5042 Toys & hobby goods and supplies (1977) 5043 Photographic equipment and supplies 5044 Office equipment 5045 Computers, peripherals & software 5046 Commercial equipment, nec 5047 Medical and hospital equipment 5048 Ophthalmic goods 5049 Professional equipment, nec Metals and Minerals, Except Petroleum 5051 Metals service centers and offices 5052 Coal and other minerals and ores Electrical Goods 5063 Electrical apparatus and equipment 5064 Electrical appliances, TV & radios 5065 Electronic parts and equipment Hardware, Plumbing & Heating Equipment 5072 Hardware 5074 Plumbing & hydronic heating supplies

SIC CODE CLASSIFICATION 5075 Warm air heating & air-conditioning 5078 Refrigeration equipment and supplies Machinery, Equipment, and Supplies 5081 Commercial machines & equipment (1977) 5082 Construction and mining machinery 5083 Farm and garden machinery 5084 Industrial machinery and equipment 5085 Industrial supplies 5086 Professional equipment and supplies (1977) 5087 Service establishment equipment 5088 Transportation equipment & supplies Miscellaneous Durable Goods 5091 Sporting & recreational goods 5092 Toys and hobby goods and supplies 5093 Scrap and waste materials 5094 Jewelry & precious stones 5099 Durable goods, nec WHOLESALE TRADE NONDURABLE GOODS Paper and Paper Products 5111 Printing and writing paper 5112 Stationery and office supplies 5113 Industrial & personal service paper 5122 Drugs, proprietaries, and sundries Apparel, Piece Goods, and Notions 5131 Piece goods & notions 5133 Piece goods (1977) 5134 Notions and other dry goods (1977) 5136 Men's and boys' clothing 5137 Women's and children's clothing 5139 Footwear Groceries and Related Products 5141 Groceries, general line 5142 Packaged frozen foods 5143 Dairy products, exc. dried or canned 5144 Poultry and poultry products 5145 Confectionery 5146 Fish and seafoods 5147 Meats and meat products 5148 Fresh fruits and vegetables 5149 Groceries and related products, nec Farm-Product Raw Materials 5152 Cotton (1977) 5153 Grain and field beans 5154 Livestock 5159 Farm-product raw materials, nec Chemicals and Allied Products 5161 Chemicals and allied products (1977) 5162 Plastics materials & basic shapes 5169 Chemicals & allied products, nec Petroleum and Petroleum Products

5171 Petroleum bulk stations & terminals 5172 Petroleum products, nec Beer, Wine, and Distilled Beverages 5181 Beer and ale 5182 Wine and distilled beverages Misc. Nondurable Goods 5191 Farm supplies 5192 Books, periodicals, & newspapers 5193 Flowers & florists' supplies 5194 Tobacco and tobacco products 5198 Paints, varnishes, and supplies 5199 Nondurable goods, nec **BUILDING MATERIALS & GARDEN SUPPLIES** 5211 Lumber and other building materials 5231 Paint, glass, and wallpaper stores 5251 Hardware stores 5261 Retail nurseries and garden stores 5271 Mobile home dealers GENERAL MERCHANDISE STORES 5311 Department stores 5331 Variety stores 5399 Misc. general merchandise stores 5411 Grocerv stores Meat and Fish Markets 5421 Meat and fish markets 5422 Freezer and locker meat provisions (1977) 5423 Meat and fish (seafood) market (1977) 5431 Fruit and vegetable markets 5441 Candy, nut, and confectionery stores 5451 Dairy products stores **Retail Bakeries** 5461 Retail bakeries 5462 Retail bakeries-baking and selling (1977) 5463 Retail bakeries-selling only (1977) 5499 Miscellaneous food stores **AUTOMOTIVE DEALERS & SERVICE STATIONS** 5511 New and used car dealers 5521 Used car dealers 5531 Auto and home supply stores 5541 Gasoline service stations 5551 Boat dealers 5561 Recreational vehicle dealers 5571 Motorcycle dealers 5599 Automotive dealers, nec APPAREL AND ACCESSORY STORES 5611 Men's & boys' clothing stores 5621 Women's clothing stores Women's Accessory & Specialty Stores 5631 Womens accessory and specialty stores 5632 Women's accessory & specialty stores

SIC CODE CLASSIFICATION

SIC CODE	CLASSIFICATION		CLASSIFICATION
50.44	FOOD STORES	2999	Miscellaneous retail stores, nec
	Children's and infants' wear stores		DEPOSITORY INSTITUTIONS
	Family clothing stores	0011	Central Reserve Depository
	Shoe stores		Federal reserve banks
	Furriers and fur shops (1977)	6019	Central reserve depository, nec
5699	Misc. apparel & accessory stores	0004	Commercial Banks
	FURNITURE AND HOMEFURNISHINGS STORES		National commercial banks
5740	Furniture and Homefurnishings Stores		State commercial banks
	Furniture stores		State banks, not fed. reserve, (1977)
	Floor covering stores		State banks, not fed res., not (1977)
	Drapery and upholstery stores		National banks, federal reserv (1977)
	Misc. homefurnishings stores		National banks, not fed. res., (1977)
5722	Household appliance stores		National banks, not FDIC (1977)
	Radio, Television, & Computer Stores		Private banks, not incorp., no (1977)
	Radio, TV, & electronic stores	6029	Commercial banks, nec
	Radio and television stores (1977)		Savings Institutions
	Music stores (1977)		Mutual savings banks, federal (1977)
	Computer and software stores		Mutual savings banks, nec (1977)
	Record & prerecorded tape stores		Mutual savings banks, not FDIC (1977)
5736	Musical instrument stores	6035	Federal savings institutions
	EATING AND DRINKING PLACES		Savings institutions, except federal
5812	Eating places	6042	Nondeposit trusts, federal res (1977)
5813	Drinking places		Nondeposit trusts, not FDIC (1977)
	MISCELLANEOUS RETAIL	6052	Foreign exchange establishment (1977)
5912	Drug stores and proprietary stores	6054	Safe deposit companies (1977)
5921	Liquor stores	6055	Clearinghouse associations (1977)
	Used Merchandise Stores	6056	Corporations for banking abroad (1977)
5931	Used merchandise stores (1977)	6059	Functions related to banking, (1977)
5932	Used merchandise stores		Credit Unions
	Miscellaneous Shopping Goods Stores	6061	Federal credit unions
5941	Sporting goods and bicycle shops	6062	State credit unions
5942	Book stores		Foreign Bank & Branches + Agencie
5943	Stationery stores	6081	Foreign bank & branches & agencies
5944	Jewelry stores	6082	Foreign trade & international banks
5945	Hobby, toy, and game shops		Functions Closely Related to Bankin
5946	Camera & photographic supply stores	6091	Nondeposit trust facilities
5947	Gift, novelty, and souvenir shops	6099	Functions related to deposit banking
5948	Luggage and leather goods stores		NONDEPOSITORY INSTITUTIONS
5949	Sewing, needlework, and piece goods		Federal & FedSponsored Credit
	Nonstore Retailers	6111	Federal & fedsponsored credit
5961	Catalog and mail-order houses	6112	Rediscounting, not for agriculture (1977
5962	Merchandising machine operators	6113	Rediscounting, for agriculture (1977)
5963	Direct selling establishments	6122	Federal savings & loan associations (19
	Fuel Dealers	6123	State associations, insured (1977)
5982	Fuel and ice dealers, nec (1977)	6124	State associations, noninsured (1977)
5983	Fuel oil dealers	6125	State associations, noninsured (1977)
5984	Liquefied petroleum gas dealers	6131	Agricultural credit institutions (1977)
5989	Fuel dealers, nec		Personal Credit Institutions
	Retail Stores, NEC	6141	Personal credit institutions
5992	Florists	6142	Federal credit unions (1977)
5993	Tobacco stores and stands	6143	State credit unions (1977)
5994	News dealers and newsstands	6144	Nondeposit industrial loan companies (
5995	Optical goods stores	6145	Licensed small loan lenders (1977)

SIC CODE CLASSIFICATION 6146 Installment sales finance companies (1977) 6149 Misc. personal credit institutions (1977) **Business Credit Institutions** 6153 Short-term business credit 6159 Misc, business credit institutions Mortgage Bankers and Brokers 6162 Mortgage bankers and correspondents 6163 Loan brokers SECURITY AND COMMODITY BROKERS 6211 Security brokers and dealers 6221 Commodity contracts brokers, dealers 6231 Security and commodity exchanges Security and Commodity Services 6281 Security and commodity service (1977) 6282 Investment advice 6289 Security & commodity services, nec 6311 Life insurance Medical Service and Health Insurance avings banks, not FDIC (1977) 6321 Accident and health insurance 6324 Hospital and medical service plans 6331 Fire, marine, and casualty insurance 6351 Surety insurance 6361 Title insurance INSURANCE CARRIERS exchange establishment (1977) 6371 Pension, health, and welfare funds 6399 Insurance carriers, nec ons for banking abroad (1977) **INSURANCE AGENTS, BROKERS, & SERVICE** 6411 Insurance agents, brokers, & service REAL ESTATE Real Estate Operators and Lessors 6512 Nonresidential building operators Bank & Branches + Agencies 6513 Apartment building operators 6514 Dwelling operators, exc. apartments 6515 Mobile home site operators s Closely Related to Banking 6517 Railroad property lessors 6519 Real property lessors, nec 6531 Real estate agents and managers 6541 Title abstract offices Subdividers and Developers 6552 Subdividers and developers, nec nting, not for agriculture (1977) 6553 Cemetery subdividers and developers 6611 Combined real estate, insurance (1977) HOLDING AND OTHER INVESTMENT OFFICES avings & loan associations (1977) Holding Offices 6711 Holding offices (1977) 6712 Bank holding companies 6719 Holding companies, nec Investment Offices 6722 Management investment, open-end 6723 Management investment, closed-end (1977 6724 Unit investment trusts (1977) 6725 Face-amount certificate offices (1977) sit industrial loan companies (1977)

6726 Investment offices nec

SIC CODE CLASSIFICATION Trusts 6732 Educational, religious, etc. trusts 6733 Trusts, nec **Miscellaneous Investing** 6792 Oil royalty traders 6793 Commodity traders (1977) 6794 Patent owners and lessors 6798 Real estate investment trusts 6799 Investors nec HOTELS AND OTHER LODGING PLACES 7011 Hotels and motels 7021 Rooming and boarding houses **Camps and Recreational Vehicle Parks** 7032 Sporting and recreational camps 7033 Trailer parks and campsites 7041 Membership-basis organization hotels PERSONAL SERVICES Laundry, Cleaning, & Garment Services 7211 Power laundries, family & commercial 7212 Garment pressing & cleaners' agents 7213 Linen supply 7214 Diaper service (1977) 7215 Coin-operated laundries and cleaning 7216 Drycleaning plants, except rug 7217 Carpet and upholstery cleaning 7218 Industrial launderers 7219 Laundr y and garment services, nec 7221 Photographic studios, portrait 7231 Beauty shops 7241 Barber shops 7251 Shoe repair and shoeshine parlors 7261 Funeral service and crematories Miscellaneous Personal Services 7291 Tax return preparation services 7299 Miscellaneous personal services, nec **BUSINESS SERVICES** Advertising 7311 Advertising agencies 7312 Outdoor advertising services 7313 Radio, TV, publisher representatives 7319 Advertising, nec **Credit Reporting and Collection** 7321 Credit reporting and collection (1977) 7322 Adjustment & collection services 7323 Credit reporting services Mailing, Reproduction, Stenographic 7331 Direct mail advertising services 7332 Blueprinting and photocopying (1977) 7333 Commercial photography and art (1977)

- 7334 Photocopying & duplicating services
- 7335 Commercial photography
- 7336 Commercial art and graphic design

7338 Secretarial & court reporting

SIC CODE CLASSIFICATION 7339 Stenographic and reproduction, nec (1977) Services to Buildings 7341 Window cleaning (1977) 7342 Disinfecting & pest control services 7349 Building maintenance services, nec Misc. Equipment Rental & Leasing 7351 News syndicates (1977) 7352 Medical equipment rental 7353 Heavy construction equipment rental 7359 Equipment rental & leasing, nec Personnel Supply Services 7361 Employment agencies 7362 Temporary help supply services (1977) 7363 Help supply services 7369 Personnel supply services, nec (1977) Computer and Data Processing Services 7371 Computer programming services 7372 Prepackaged software 7373 Computer integrated systems design 7374 Data processing and preparation 7375 Information retrieval services 7376 Computer facilities management 7377 Computer rental & leasing 7378 Computer maintenance & repair 7379 Computer related services, nec Miscellaneous Business Services 7381 Detective & armored car services 7382 Security systems services 7383 News syndicates 7384 Photofinishing laboratories 7389 Business services, nec 7391 Research & development laboratories (1977) 7392 Management and public relations (1977) 7393 Detective and protective services (1977) 7394 Equipment rental and leasing (1977) 7395 Photofinishing laboratories (1977) 7396 Trading stamp services (1977) 7397 Commercial testing laboratories (1977) 7399 Business services, nec (1977) AUTO REPAIR, SERVICES, AND PARKING Automotive Rentals, No Drivers 7512 Passenger car rental and leasing (1977) 7513 Truck rental and leasing, no drivers 7514 Passenger car rental 7515 Passenger car leasing 7519 Utility trailer rental Automobile Parking 7521 Automobile parking 7523 Parking lots (1977) 7525 Parking structures (1977) Automotive Repair Shops

### 7531 Top and body repair shops (1977) 7532 Top & body repair & paint shops

SIC CODE CLASSIFICATION 7533 Auto exhaust system repair shops 7534 Tire retreading and repair shops 7535 Paint shops (1977) 7536 Automotive glass replacement shops 7537 Automotive transmission repair shops 7538 General automotive repair shops 7539 Automotive repair shops, nec Automotive Services, Except Repair 7542 Carwashes 7549 Automotive services, nec MISCELLANEOUS REPAIR SERVICES **Electrical Repair Shops** 7622 Radio and television repair 7623 Refrigeration service and repair 7629 Electrical repair shops, nec 7631 Watch, clock, and jewelry repair 7641 Reupholstery and furniture repair **Miscellaneous Repair Shops** 7692 Welding repair 7694 Armature rewinding shops 7699 Repair services, nec MOTION PICTURES Motion Picture Production & Services 7812 Motion picture & video production 7813 Motion picture production, except TV (1977) 7814 Motion picture production for TV (1977) 7819 Services allied to motion pictures Motion Picture Distribution & Services 7822 Motion picture and tape distribution 7823 Motion picture film exchanges (1977) 7824 Film or tape distribution for TV (1977) 7829 Motion picture distribution services Motion Picture Theaters 7832 Motion picture theaters ex drive-in 7833 Drive-in motion picture theaters 7841 Video tape rental AMUSEMENT & RECREATION SERVICES 7911 Dance studios, schools, and halls Producers, Orchestras, Entertainers 7922 Theatrical producers and services 7929 Entertainers & entertainment groups **Bowling Centers** 7932 Billiard and pool establishments (1977) 7933 Bowling centers Commercial Sports 7941 Sports clubs, managers, & promoters 7948 Racing, including track operation Misc. Amusement, Recreation Services 7991 Physical fitness facilities 7992 Public golf courses 7993 Coin-operated amusement devices 7996 Amusement parks

7997 Membership sports & recreation clubs

CODE	CLASSIFICATION	SIC CODE	CLASSIFICATION	SIC CODE	CLASSIFICATION
7999	Amusement and recreation, nec		MUSEUMS, BOTANICAL, ZOOLOGICAL GARDENS		ADMINISTRATION OF HUMAN RESOURCES
	HEALTH SERVICES		Museums and Art Galleries	9411	Admin. of educational programs
8011	Offices & clinics of medical doctors	8411	Museums and art galleries (1977)	9431	Admin. of public health programs
8021	Offices and clinics of dentists	8412	Museums and art galleries	9441	Admin. of social & manpower programs
8031	Offices of osteopathic physicians	8422	Botanical and zoological gardens	9451	Administration of veterans' affairs
	Offices of Other Health Practitioners		MEMBERSHIP ORGANIZATIONS		ENVIRONMENTAL QUALITY AND HOUSING
8041	Offices and clinics of chiropractors	8611	Business associations		Environmental Quality
8042	Offices and clinics of optometrists	8621	Professional organizations	9511	Air, water, & solid waste management
8043	Offices and clinics of podiatrists	8631	Labor organizations	9512	Land, mineral, wildlife conservation
8049	Offices of health practitioners, nec	8641	Civic and social associations		Housing and Urban Development
	Nursing and Personal Care Facilities	8651	Political organizations	9531	Housing programs
8051	Skilled nursing care facilities	8661	Religious organizations	9532	Urban and community development
8052	Intermediate care facilities	8699	Membership organizations, nec		ADMINISTRATION OF ECONOMIC PROGRA
8059	Nursing and personal care, nec		ENGINEERING & MANAGEMENT SERVICES	9611	Admin. of general economic programs
	Hospitals		Engineering & Architectural Services	9621	Regulation, admin. of transportation
8062	General medical & surgical hospitals	8711	Engineering services	9631	Regulation, admin. of utilities
8063	Psychiatric hospitals	8712	Architectural services	9641	Regulation of agricultural marketing
8069	Specialty hospitals exc. psychiatric	8713	Surveying services	9651	Regulation misc. commercial sectors
	Medical and Dental Laboratories	8721	Accounting, auditing, & bookkeeping	9661	Space research and technology
8071	Medical laboratories		Research and Testing Services		NATIONAL SECURITY AND INTL. AFFAIRS
8072	Dental laboratories	8731	Commercial physical research	9711	National security
	Home Health Care Services	8732	Commercial non physical research	9721	International affairs
8081	Outpatient care facilities (1977)	8733	Noncommercial research organizations		NONCLASSIFIABLE ESTABLISHMENTS
8082	Home health care services	8734	Testing laboratories	9999	Nonclassifiable establishments
	Health and Allied Services, NEC		Management and Public Relations		
8091	Health and allied services, nec (1977)	8741	Management services		
8092	Kidney dialysis centers	8742	Management consulting services		
8093	Specialty outpatient clinics, nec	8743	Public relations services		
8099	Health and allied services, nec	8744	Facilities support services		
	LEGAL SERVICES	8748	Business consulting, nec		
8111	Legal services		PRIVATE HOUSEHOLDS		
	EDUCATIONAL SERVICES	8811	Private households		
8211	Elementary and secondary schools		SERVICES, NEC		
	Colleges and Universities	8911	Engineering & architectural services (1977)		
8221	Colleges and universities	8922	Noncommercial research organizations (1977)		
8222	Junior colleges	8931	Accounting, auditing & bookkeeping (1977)		
	Libraries		Services, nec		
	Vocational Schools		EXECUTIVE, LEGISLATIVE, AND GENERAL		
8241	Correspondence schools (1977)	9111	Executive offices		
	Data processing schools		Legislative bodies		
	Business and secretarial schools		Executive and legislative combined		
	Vocational schools, nec		General government, nec		
	Schools & educational services, nec	0100	JUSTICE, PUBLIC ORDER, AND SAFETY		
0200	SOCIAL SERVICES	9211	Courts		
	Individual and Family Services		Public Order and Safety		
8321	Individual and family services (1977)	9221	Police protection		
	Individual and family services		Legal counsel and prosecution		
	Job training and related services		Correctional institutions		
	-				
	Child day care services		Fire protection		
	Residential care	9229	Public order and safety, nec		
8399	Social services, nec		FINANCE, TAXATION, & MONETARY POLICY		

#### 9311 Finance, taxation, & monetary policy

14

# APPENDIX E CONTROL DEVICE CODES

Afterburner AFTERBURNER   Afterburner, Catalytic with Heat Exchanger AFTER,CAT,HEAT   Afterburner, Direct Flame with Heat Exchanger AFTER,FLM,HEAT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,HEAT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Ammonia Injection INJCTN,AMMONIA   Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Oxidation - Flue Gas Desulfurization CAT ALYTIC OXIDR   Catalytic Oxidation - Flue Gas Desulfurization CAT ALYTIC OXIDR   Catalytic Oxidizer CATALYTIC OXIDR   Catalytic Oxider (e.g., NOx reduction catalyst) REDUC CATALYST   Centrifugal Collector - High Efficiency CYCLONE,LOW,EFF   Centrifugal Collector - Low Efficiency CYCLONE,MEMSER   Condenser, Barometric CONDENS, BAROMET   Condenser, Refrigerated CONDENS, REFRIG   Condenser, Refrigerated CYCLONE,MULT,W/   Cyclone, Multiple w/ Fly Ash Reinjection <th>CONTROL DEVICE NAME</th> <th>CONTROL DEVICE CODE</th>	CONTROL DEVICE NAME	CONTROL DEVICE CODE
Activated Clay Adsorption ADSORB,CLAY   Afterburner AFTERR,CAT,HEAT   Afterburner, Catalytic with Heat Exchanger AFTER,CAT,NO HT   Afterburner, Direct Flame with Heat Exchanger AFTER,FLM,HEAT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Afterburner, Direct Flame without Heat Exchanger AFTER,CAT,NO HT   Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Ange - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Ange - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Ange - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Catalytic Converter AFTER,CAT INCIN   Catalytic Ioninerator CAT OXID,FGD   Catalytic Nolidizer CATALYTIC OXIDR	Activated Carbon Adsorption	ADSORB,CARBON
Afterburner, Catalytic with Heat Exchanger AFTER,CAT,HEAT   Afterburner, Catalytic without Heat Exchanger AFTER,CAT,NO HT   Afterburner, Direct Flame with Heat Exchanger AFTER,FLM,NO HT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Ammonia Injection INJCTN,AMMONIA   Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT INCIN   Catalytic Incinerator AFTER,CAT INCIN   Catalytic Incinerator CATALYTIC OXIDR   Catalytic Reducer (e.g. NOx reduction catalyst) REDUC CATALYST   Catalytic Reducer (e.g. NOx reduction catalyst) REDUC CATALYST   Centrifugal Collector - High Efficiency CYCLONE,HGH,EFF   Condenser CONDENS,BAROMET   Condenser, Refrigerated CONDENS,RAROMET   Condenser, Refrigerated CONDENS,RAROMET   Condenser, Refrigerated CONDENS,REFRIG	Activated Clay Adsorption	ADSORB,CLAY
Afterburner, Catalytic without Heat Exchanger AFTER,CAT,NO HT   Afterburner, Direct Flame with Heat Exchanger AFTER,FLM,HEAT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Ammonia Injection INJCTN,AMMONIA   Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT CONV   Catalytic Oxidation - Flue Gas Desulfurization CAT ALYTIC OXIDR   Catalytic Oxidatior - Flue Gas Desulfurization CAT ALYTIC OXIDR   Catalytic Oxidater CATALYTIC OXIDR   Catalytic Oxidater CATALYTIC OXIDR   Catalytic Oxider CONDE,LOW,EFF   Centrifugal Collector - High Efficiency CYCLONE,HGH,EFF   Condenser CONDENS, BAROMET   Condenser, Refrigerated CONDENS, BAROMET   Condenser, Refrigerated CONDENS, REFRIG   Condenser, Refrigerated CONDENS, REFRIG   Condenser, Refrigerated CONDENS, TUB&SHL   Condenser, Refrigerated<	Afterburner	AFTERBURNER
Afterburner, Catalytic without Heat Exchanger AFTER,CAT,NO HT   Afterburner, Direct Flame with Heat Exchanger AFTER,FLM,HEAT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Ammonia Injection INJCTN,AMMONIA   Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT CONV   Catalytic Oxidation - Flue Gas Desulfurization CAT ALYTIC OXIDR   Catalytic Oxidatior - Flue Gas Desulfurization CAT ALYTIC OXIDR   Catalytic Oxidater CATALYTIC OXIDR   Catalytic Oxidater CATALYTIC OXIDR   Catalytic Oxider CONDE,LOW,EFF   Centrifugal Collector - High Efficiency CYCLONE,HGH,EFF   Condenser CONDENS, BAROMET   Condenser, Refrigerated CONDENS, BAROMET   Condenser, Refrigerated CONDENS, REFRIG   Condenser, Refrigerated CONDENS, REFRIG   Condenser, Refrigerated CONDENS, TUB&SHL   Condenser, Refrigerated<	Afterburner, Catalytic with Heat Exchanger	AFTER,CAT,HEAT
Afterburner, Direct Flame with Heat Exchanger AFTER,FLM,HEAT   Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Ammonia Injection INJCTN,AMMONIA   Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT CONV   Catalytic Incinerator AFTER,CAT INCIN   Catalytic Oxidizer CAT ALYTIC OXIDR   Catalytic Oxidizer CATALYTIC OXIDR   Catalytic Oxidizer CATALYTIC OXIDR   Catalytic Oxidizer CYCLONE, HGH,EFF   Centrifugal Collector - High Efficiency CYCLONE, HGH,EFF   Condenser CONDENS, REFRIG   Condenser, Barometric CONDENS, REFRIG   Condenser, Refrigerated CONDENS, REFRIG   Conservation Vent CONSERV VENT   Crossflow Packed Bed Absorber ABSORB,GAS,XFLO   Cyclone, Multiple w/ Fly Ash Reinjection CYCLONE,MULT,W/   Cyclone, Multiple w/ Fly Ash Reinjection CYCLONE,NIGLE		AFTER,CAT,NO HT
Afterburner, Direct Flame without Heat Exchanger AFTER,FLM,NO HT   Ammonia Injection INJCTN,AMMONIA   Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT CONV   Catalytic Incinerator AFTER,CAT INCIN   Catalytic Oxidation - Flue Gas Desulfurization CAT OXID,FGD   Catalytic Oxidation - Flue Gas Desulfurization CAT ALYTIC OXIDR   Catalytic Incinerator AFTER,CAT INCIN   Catalytic Oxidizer CATALYTIC OXIDR   Catalytic Reducer (e.g. NOx reduction catalyst) REDUC CATALYST   Centrifugal Collector - Low Efficiency CYCLONE,LOW,EFF   Centrifugal Collector - Wedium Efficiency CYCLONE,MED,EFF   Condenser CONDENS,REFRIG   Condenser, Refrigerated CONDENS,REFRIG   Condenser, Refrigerated CONDENS,REFRIG   Condenser, Tube and Shell CONDENS,REFRIG   Condenser, Multiple w/ Fly Ash Reinjection CYCLONE,MULT,W/   Cyclone		AFTER,FLM,HEAT
Andre - Cardboard Binks Filter (Accordian) FLTR,ACCORDIAN   Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT CONV   Catalytic Incinerator AFTER,CAT INCIN   Catalytic Oxidation - Flue Gas Desulfurization CAT OXID,FGD   Catalytic Oxidizer CATALYTIC OXIDR   Catalytic Reducer (e.g. NOx reduction catalyst) REDUC CATALYST   Centrifugal Collector - High Efficiency CYCLONE,HGH,EFF   Condenser, Barometric CONDENS,BAROMET   Condenser, Barometric CONDENS,REFRIG   Condenser, Refrigerated CONDENS,REFRIG   Condenser, Tube and Shell CONDENS,REFRIG   Condensing Filter FLTR,CONDENSE   Conservation Vent CONSERV VENT   Crossflow Packed Bed Absorber ABSORB,GAS,XFLO   Cyclone, Multiple w/ Fly Ash Reinjection CYCLONE,MULT,W/   Cyclone, Multiple w/ Fly Ash Reinjection CYCLONE,SINGLE   Demister DEMISTER DYNAMIC SEP,WET   Dry Limestone Injection IN	Afterburner, Direct Flame without Heat Exchanger	
Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT CONV   Catalytic Incinerator AFTER,CAT INCIN   Catalytic Oxidation - Flue Gas Desulfurization CAT OXID,FGD   Catalytic Oxidizer CATALYTIC OXIDR   Catalytic Collector - High Efficiency CYCLONE,HGH,EFF   Centrifugal Collector - Low Efficiency CYCLONE,MED,EFF   Condenser, Barometric CONDENS,BAROMET   Condenser, Refrigerated CONDENS,REFRIG   Condenser, Tube and Shell CONDENS,REFRIG   Condenser, Refrigerated CONDENS,REFRIG   Condenser, Tube and Shell CONDENS,REFRIG   Condenser, Refrigerated CONDENS,REFRIG   Condensing Filter FLTR,CONDENSE   Conservation Vent	Ammonia Injection	INJCTN,AMMONIA
Any Control Device CONTROL   Baffle BAFFLE   Baghouse BAGHOUSE   Boiler at Landfill LANDFILL BOILER   Carbon Injection INJCTN,CARBON   Catalytic Converter AFTER,CAT CONV   Catalytic Incinerator AFTER,CAT INCIN   Catalytic Oxidation - Flue Gas Desulfurization CAT OXID,FGD   Catalytic Oxidizer CATALYTIC OXIDR   Catalytic Collector - High Efficiency CYCLONE,HGH,EFF   Centrifugal Collector - Low Efficiency CYCLONE,MED,EFF   Condenser, Barometric CONDENS,BAROMET   Condenser, Refrigerated CONDENS,REFRIG   Condenser, Tube and Shell CONDENS,REFRIG   Condenser, Refrigerated CONDENS,REFRIG   Condenser, Tube and Shell CONDENS,REFRIG   Condenser, Refrigerated CONDENS,REFRIG   Condensing Filter FLTR,CONDENSE   Conservation Vent	Andre - Cardboard Binks Filter (Accordian)	FLTR,ACCORDIAN
BaghouseBAGHOUSEBoiler at LandfillLANDFILL BOILERCarbon InjectionINJCTN,CARBONCatalytic ConverterAFTER,CAT CONVCatalytic IncineratorAFTER,CAT INCINCatalytic Oxidation - Flue Gas DesulfurizationCAT OXID,FGDCatalytic OxidizerCATALYTIC OXIDRCatalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,REFRIGCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,REFRIGConservation VentCONSERV VENTCryclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,WETElectrostatic Precipitator - High EfficiencyESPElectrostatic Precipitator - High EfficiencyESP,HIGH	Any Control Device	CONTROL
Boiler at LandfillLANDFILL BOILERCarbon InjectionINJCTN,CARBONCatalytic ConverterAFTER,CAT CONVCatalytic IncineratorAFTER,CAT INCINCatalytic Oxidation - Flue Gas DesulfurizationCAT OXID,FGDCatalytic OxidizerCATALYTIC OXIDRCatalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,LOW,EFFCondenserCONDENSERCondenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLConservation VentCYCLONE,MULT,W/Cyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,MULT,W/Cyclone, SingleDEMISTERDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,NETElectrostatic Precipitator - High EfficiencyESPElectrostatic Precipitator - Low EfficiencyESP,HIGH	Baffle	BAFFLE
Boiler at LandfillLANDFILL BOILERCarbon InjectionINJCTN,CARBONCatalytic ConverterAFTER,CAT CONVCatalytic IncineratorAFTER,CAT INCINCatalytic Oxidation - Flue Gas DesulfurizationCAT OXID,FGDCatalytic OxidizerCATALYTIC OXIDRCatalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,REFRIGCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,REFRIGConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,WETElectrostatic Precipitator - High EfficiencyESPElectrostatic Precipitator - High EfficiencyESP,HIGH	Baghouse	BAGHOUSE
Catalytic ConverterAFTER,CAT CONVCatalytic IncineratorAFTER,CAT INCINCatalytic IncineratorCAT OXID,FGDCatalytic Oxidation - Flue Gas DesulfurizationCAT OXID,FGDCatalytic OxidizerCATALYTIC OXIDRCatalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,LOW,EFFCentrifugal Collector - Medium EfficiencyCYCLONE,MED,EFFCondenser, BarometricCONDENS,REFRIGCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondenser, Tube and ShellCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic PrecipitatorESPElectrostatic Precipitator - Low EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Boiler at Landfill	LANDFILL BOILER
Catalytic IncineratorAFTER,CAT INCINCatalytic IncineratorCAT OXID,FGDCatalytic OxidizerCAT OXID,FGDCatalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, RefrigeratedCONDENS,RAROMETCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Sorbent InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)ESP,HIGHElectrostatic PrecipitatorESPElectrostatic Precipitator - Low EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Carbon Injection	INJCTN,CARBON
Catalytic IncineratorAFTER,CAT INCINCatalytic IncineratorCAT OXID,FGDCatalytic OxidizerCAT OXID,FGDCatalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,RAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Sorbent InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Dry)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic PrecipitatorESPElectrostatic Precipitator - Low EfficiencyESP,LOW	Catalytic Converter	AFTER,CAT CONV
Catalytic OxidizerCATALYTIC OXIDRCatalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,LOW,EFFCentrifugal Collector - Medium EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,LIME,DRYDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - Low EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Catalytic Incinerator	AFTER,CAT INCIN
Catalytic Reducer (e.g. NOx reduction catalyst)REDUC CATALYSTCentrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,LOW,EFFCentrifugal Collector - Medium EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Catalytic Oxidation - Flue Gas Desulfurization	CAT OXID,FGD
Centrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,LOW,EFFCentrifugal Collector - Medium EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry sorbent InjectionINJCTN,DRY SORBDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Catalytic Oxidizer	CATALYTIC OXIDR
Centrifugal Collector - High EfficiencyCYCLONE,HGH,EFFCentrifugal Collector - Low EfficiencyCYCLONE,LOW,EFFCentrifugal Collector - Medium EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry sorbent InjectionINJCTN,DRY SORBDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Catalytic Reducer (e.g. NOx reduction catalyst)	REDUC CATALYST
Centrifugal Collector - Low EfficiencyCYCLONE,LOW,EFFCentrifugal Collector - Medium EfficiencyCYCLONE,MED,EFFCondenserCONDENSERCondenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, SingleCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDynamic Separator (Dry)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW		CYCLONE,HGH,EFF
CondenserCONDENSERCondenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Centrifugal Collector - Low Efficiency	CYCLONE,LOW,EFF
Condenser, BarometricCONDENS,BAROMETCondenser, RefrigeratedCONDENS,REFRIGCondenser, Tube and ShellCONDENS,TUB&SHLCondensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDynamic Separator (Dry)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Centrifugal Collector - Medium Efficiency	CYCLONE,MED,EFF
Condenser, RefrigeratedCONDENS, REFRIGCondenser, Tube and ShellCONDENS, TUB&SHLCondensing FilterFLTR, CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB, GAS, XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE, MULT, W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE, MULT, WOCyclone, SingleCYCLONE, SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN, LIME, DRYDynamic Separator (Dry)DYNAMIC SEP, DRYDynamic Separator (Wet)DYNAMIC SEP, WETElectrified Filter BedFLTR, BED, ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP, HIGHElectrostatic Precipitator - Low EfficiencyESP, LOW	Condenser	CONDENSER
Condenser, Tube and ShellCONDENS, TUB&SHLCondensing FilterFLTR, CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB, GAS, XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE, MULT, W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE, MULT, WOCyclone, SingleCYCLONE, SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN, LIME, DRYDynamic Separator (Dry)DYNAMIC SEP, DRYDynamic Separator (Wet)DYNAMIC SEP, WETElectrified Filter BedFLTR, BED, ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP, HIGHElectrostatic Precipitator - Low EfficiencyESP, LOW	Condenser, Barometric	CONDENS, BAROMET
Condensing FilterFLTR,CONDENSEConservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,LIOW	Condenser, Refrigerated	
Conservation VentCONSERV VENTCrossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,LOW	Condenser, Tube and Shell	CONDENS,TUB&SHL
Crossflow Packed Bed AbsorberABSORB,GAS,XFLOCyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Condensing Filter	
Cyclone, Multiple w/ Fly Ash ReinjectionCYCLONE,MULT,W/Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Conservation Vent	CONSERV VENT
Cyclone, Multiple w/o Fly Ash ReinjectionCYCLONE,MULT,WOCyclone, SingleCYCLONE,SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,LOW	Crossflow Packed Bed Absorber	ABSORB,GAS,XFLO
Cyclone, SingleCYCLONE, SINGLEDemisterDEMISTERDry Limestone InjectionINJCTN, LIME, DRYDry Sorbent InjectionINJCTN, DRY SORBDynamic Separator (Dry)DYNAMIC SEP, DRYDynamic Separator (Wet)DYNAMIC SEP, WETElectrified Filter BedFLTR, BED, ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP, HIGHElectrostatic Precipitator - Low EfficiencyESP, LOW	Cyclone, Multiple w/ Fly Ash Reinjection	CYCLONE,MULT,W/
DemisterDEMISTERDry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,LOW	Cyclone, Multiple w/o Fly Ash Reinjection	CYCLONE,MULT,WO
Dry Limestone InjectionINJCTN,LIME,DRYDry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Cyclone, Single	CYCLONE, SINGLE
Dry Sorbent InjectionINJCTN,DRY SORBDynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Demister	DEMISTER
Dynamic Separator (Dry)DYNAMIC SEP,DRYDynamic Separator (Wet)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Dry Limestone Injection	INJCTN,LIME,DRY
Dynamic Separator (Wet)DYNAMIC SEP,WETElectrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Dry Sorbent Injection	INJCTN, DRY SORB
Electrified Filter BedFLTR,BED,ELECTElectrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Dynamic Separator (Dry)	DYNAMIC SEP, DRY
Electrostatic PrecipitatorESPElectrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Dynamic Separator (Wet)	DYNAMIC SEP,WET
Electrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Electrified Filter Bed	
Electrostatic Precipitator - High EfficiencyESP,HIGHElectrostatic Precipitator - Low EfficiencyESP,LOW	Electrostatic Precipitator	ESP
Electrostatic Precipitator - Low Efficiency ESP,LOW	Electrostatic Precipitator - High Efficiency	ESP,HIGH
	Electrostatic Precipitator - Low Efficiency	
	Electrostatic Precipitator - Medium Efficiency	ESP,MEDIUM

# **APPENDIX E - Control Device Codes Continued**

CONTROL DEVICE NAME	CONTROL DEVICE CODE
Fiberglass Filter w/ Cardboard Frame	FLTR,FG,W/CF
Fiberglass Filter w/o Cardboard Frame	FLTR,FG,W/O CF
Filter, Annular Ring	FLTR,ANNULAR
Filter, Fabric	FLTR, FABRIC
Filter, Mat or Panel	FILTER
Filter, Fabric - High Temperature	FLTR,FAB,HI,TMP
Filter, Fabric - Low Temperature	FLTR,FAB,LO,TMP
Filter, Fabric - Medium Temperature	FLTR, FAB, MD, TMP
Flare	FLARE
Floating Bed Scrubber	SCRUBR,FLOAT
Flue Gas Recirculation	FLUE GAS RECIRC
Fluid Bed Dry Scrubber	SCRUBR, FL DRY
Freeboard Refrigeration Device	FREEBRD REFRIG
Gravel Bed Filter	FLTR,GRAVEL
Gravity Collector - High Efficiency	GRAVITY COL,HGH
Gravity Collector - Low Efficiency	GRAVITY COL,LOW
Gravity Collector - Medium Efficiency	GRAVITY COL,MED
High volume air filter	HVAF
High-Efficiency Particulate Air Filter (HEPA)	HEPA
High-Efficiency Particulate Air Filter (HEPA)	HEPA
Knock Out Box	KNOCK OUT BOX
Low NOX Burners	LOW NOX BURNERS
Mechanical Collector, w/ Fly Ash Reinjection	COLLECT,W FLY
Mechanical Collector, w/o Fly Ash Reinjection	COLLECT,W/O FLY
Metal Fabric Filter Screen (Cotton Gins)	METAL SCREEN
Mist Eliminator, High Velocity	MIST ELIM, HIGH
Mist Eliminator, Medium Velocity	MIST ELIM, MED
Molecular Sieve	MOLECULAR SIEVE
Multicyclone	CYCLONE,MULT
NSCR (Non-Selective Catalytic Reduction)	NSCR
Packed-Gas Absorption Column	ABSORB,GAS,PA
Paper Filter (Not Accordian)	FLTR.PAP NO ACC
Process Change	PROCESS CHANGE
Process Enclosed	ENCLOSURE
Quench Tower	QUENCH TOWER
Roll Media - Fiberglass Tack Filter (Tacky 1 Side)	FLTR,FG,TACKY
Rotoclone	ROTOCLONE
SCR (Selective Catalytic Reduction)	SCR
Scrubber, Alkaline Fly Ash	SCRUBR,ALK ASH
Scrubber, Ammonia	SCRUBR,NH3
Scrubber, Caustic	SCRUBR,CAUSTIC
Scrubber, Citrate Process	SCRUBR,CITRATE
Scrubber, Dry	SCRUBR, DRY
Scrubber, Dual Alkali	SCRUBR, DUAL ALK
Scrubber, Fluid Bed Dry	SCRUBR, DRYFLUID
Scrubber, Fluid Bed Dry	SCRUBR, DRYFLUID

# **APPENDIX E - Control Device Codes Continued**

CONTROL DEVICE CODE
SCRUBR,GENERAL
SCRUBR, HGH PRES
SCRUBR, IMPING
SCRUBR, WET IMPG
SCRUBR,LIME
SCRUBR, LOW PRES
SCRUBR,MG OX
SCRUBR, PACKED
SCRUBR, PACK, HI
SCRUBR,SOD CARB
SCRUBR, SOD ALK
SCRUBR, SPRAY
SCRUBBER
SCRUBR, VENTURI
SCRUBR,WELLMAN
SCRUBR,WET
SCRUBR,WET,HIGH
SCRUBR,WET,LOW
SCRUBR, WET, MED
SINGLE WET CAP
ARRESTR,PAP+PNT
SPRAY DRYER
SPRAY SCREEN
SPRAY TOWER
INJCTN,STM/WTR
SUBMRGD FILLING
SULF ACID, CNTCT
TNGTL OVERFIRE
THERMAL OXIDIZR
ABSORB,GAS,TRAY
UNDRGRND TANK
VAPOR RECOV SYS
VAPOR RECOV UNT
WATER CURTAIN
CYCLONE,WET
ESP,WET
SUPPRESSION,WET
Z_AFS_133
Z_AFS_147
Z_AFS_148
Z_AFS_149
Z_AFS_150
Z_AFS_151
Z_AFS_152
Z_AFS_153
Z AFS 154