# USER'S MANUAL FOR THE RACT/BACT/LAER CLEARINGHOUSE (RBLC) WEB

#### CLEAN AIR TECHNOLOGY CENTER

#### SPONSORED BY:

Measurement Policy Group (MPG)
Sector Policies and Programs Division
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

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#### **PREFACE**

This user's manual was prepared for and funded by the RACT/BACT/LAER Clearinghouse (RBLC)<sup>1</sup>, U.S. Environmental Protection Agency (EPA). The RBLC has been established and is maintained by the Clean Air Technology Center (CATC) to assist State and local air pollution control personnel in making control technology determinations and in sharing technology information.

The RBLC provides data on prevention and control technology determinations made primarily by State and local permitting agencies. The Clearinghouse contains over 6,000 determinations that can help the user to identify appropriate technologies to mitigate or treat most air pollutant emission streams. The RBLC was designed to help permit applicants and reviewers to make pollution prevention and control technology decisions for stationary air pollution sources and includes data submitted by 50 states and territories in the U.S. on over 200 different air pollutants and 1,800 industrial processes.

The Clearinghouse also has a regulation data base that summarizes all emission standards issued by EPA's Office of Air Quality Planning and Standards (OAQPS). This includes New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), and Maximum Achievable Control Technology (MACT) standards. The regulation data base also includes prevention and control technology cost information related to each rule and references to supporting documentation.

Read the section, "Quick Start Instructions for the RBLC Data Base", in this document to begin using the RBLC Web.

<sup>1</sup> NOTE: RACT, BACT, and LAER are acronyms for different Clean Air Act program requirements combined to create the name "RACT/BACT/LAER Clearinghouse." RACT, or Reasonably Available Control Technology is required on existing sources in areas that are not meeting national ambient air quality standards (i.e., non-attainment areas). BACT, or Best Available Control Technology, is required on major new or modified sources in "clean" areas (i.e., attainment areas). LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas. However, data in the Clearinghouse are not limited just to sources subject to these requirements. Noteworthy prevention and control technology decisions are included in the RBLC even if they are not related to RACT, BACT, or LAER decisions.

#### QUICK START INSTRUCTIONS FOR THE RBLC WEB

#### What is the RBLC?

The U.S. Environmental Protection Agency's (EPA) Clean Air Technology Center (CATC) maintains a permit data base called the RACT/BACT/LAER Clearinghouse or the RBLC. The RBLC permit data base contains information about recent control technology determinations submitted by State and local agencies. The regulation data base includes information about Federal regulations governing air pollutant emissions. The RBLC Web allows anyone to search these data bases without any user registration. These quick start instructions provide basic information on using the system and searching the data bases.

To access the RBLC Web, go to the CATC home page (at: http://www.epa.gov/ttn/catc/) and click on the RBLC logo. Options found on the RBLC Homepage include links to data base search options, documents, and related software.

#### Using the RBLC Web

The data base contains information on: facilities that apply for construction permits; the basis for emission limits (RACT, BACT, or LAER) for each facility; pertinent source operating parameters such as process types, pollutant emission rates, pollution prevention techniques, add-on control equipment or other technology; permitting agency contacts; and scheduling data. Details about all of the data elements can be found in Section 2.2 and Appendix A of the RBLC User's Manual.

#### The HELP System:

The on-line HELP system provides context-sensitive assistance throughout the system. Simply click on the button labeled "Help" to access a HELP file that explains the current item. The help function button looks like this:

Help

The RBLC User's Manual can supply answers to more complex questions, and can be accessed on-line or saved to disk. A portable document format (PDF) version of the manual has the advantage of being searchable by the Adobe Acrobat® software.

#### **Searching the Permit Data Base:**

Data Base Searches -- Click on "Search Data Base" on the RBLC home page. The Basic Search page is the default search page. Under the heading, "Other Search Options, Permit Data Base", you may choose from the following additional search options:

- **Find Lowest Emission Rate**: Find the lowest emission rate for a selected process type and pollutant.
- **Standard Search**: Build a set of search criteria by choosing from facility, process, and pollutant properties. Where appropriate, pick-lists of allowable values are available.
- **Advanced Search**: Choose from pick-lists of data elements and enter desired values to build a set of search criteria. Criteria can be combined for more selective searches.<sup>1</sup>
- **RBLC ID Search**: Quickly find up to three determinations using the appropriate RBLC identifier (RBLC ID).

Continue in the RBLC interactive search mode by following the directions on the screen and making choices by entering text and/or clicking buttons. Details about searching the data base are in Section 2.3 of the User's Manual.

Navigation buttons are provided near the top of each facility, process and pollutant data page to assist in moving through the search results, data base and Web site. Use these buttons rather than the Web browser's navigation buttons to avoid potential errors that can result from the way that browsers cache information.

#### **Viewing Results On-line:**

A search allows the user to access the part of the data base meeting the search criteria specified. Once the search has located a result set, entries in the set may be viewed on-line or downloaded as a report file. The Basic Search, Standard Search, and Advanced Search results tables can be sorted by permit date (default), State/RBLC ID, or facility name by clicking on the appropriate "Sort by" button at the top of the table. The "Find Lowest Emission Rate" search results table is sorted by the emission limit (lowest to highest).

Information about each of the determinations in the search results table is organized by facility, process, and pollutant. Click on a RBLC ID to access facility data (general information about this permitting action). Click on a process name to view details about the process and access links to pollutant information. The "Find Lowest Emission Rate" search results table does not provide direct access to process details, but does provide direct access to pollutant information by clicking the emission limit. View other types of information by clicking on the navigational

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<sup>&</sup>lt;sup>1</sup> In general, a user should know what each data element contains to use this option effectively. Refer to Section 2.2 and Appendix A of the RBLC User's Manual for more information about individual data elements.

buttons near the top of each facility, process and pollutant data page.

#### **Reports:**

The RBLC Web provides several pre-defined formats for viewing and downloading search results. Two of these formats, "Free Form Report (Customizable fields selections)" and "Export/Import Report", allow the user to customize their report by selecting the data elements to be included in the report. Both summary and detail formats are available. The list of available formats is contained in a pick-list at the bottom of the Search Results page. Details about these reports can be found in Sections 2.4 and 2.5 of the RBLC User's Manual.

#### **Searching the Regulation Data Base:**

The organization of the Regulation Data Base is similar to that of the RBLC's permit data base. Refer to Section 3.2 of the RBLC User's Manual for more information about Regulation Data Base data elements. Each entry, or rule, in the regulation data base consists of regulation, process-, and pollutant-level data. A rule is associated with the type of facility that is the source of pollutants governed by the regulation.

Choose one of the options under "Other Search Options, Regulation Data Base" to locate information of interest in the regulation data base. Then, to continue in RBLC interactive search mode, simply follow the directions on the screen, making choices by entering text and clicking buttons. The RBLC Web offers the following search options:

- Scan All: displays all regulations in the data base alphabetically by Regulation Name/Industry Sector.
- **Standard Search**: enables the user to build a set of search criteria by choosing from date, facility, process, and pollutant properties. Where appropriate, pick-lists of allowable values are provided.
- Advanced Search: enables the user to choose from pick-lists of data elements and enter desired values to build a set of search criteria. Criteria can be combined for more selective searches. This option is most effective for users with a good understanding of what each data element contains.

Choose the "Scan All" option to easily view the entire regulation data base. Entries are displayed in a results table. Choose either the "Standard Search" or "Advanced Search" option to view only selected regulations. All of the RBLC search options present an overview of search results in a table that allows the user to examine details about matching facilities, their processes, and pollutants. The RBLC Web provides several pre-defined formats for viewing and downloading search results. Two of these formats, "Free Form Report (Customizable fields

selections)" and "Export/Import Report", allow the user to customize their report by selecting the data elements to be included in the report. The list of available formats is contained in a pick-list at the bottom of the Search Results page. Details about these reports can be found in Sections 3.3.3 of the RBLC User's Manual.

#### **On-Line Documentation for the RBLC**

The RBLC is documented in this set of Quick Start Instructions, the RBLC Data Entry Form Instructions, the RBLC Annual Report, and the RBLC User's Manual. Short descriptions of each are listed on the Web page where they are located. The user's manual should be kept as a reference for codes, standard units, and detailed instructions for using the system. In addition to these traditional forms of documentation, the system includes the context-sensitive on-line HELP function that is available throughout the entire system.

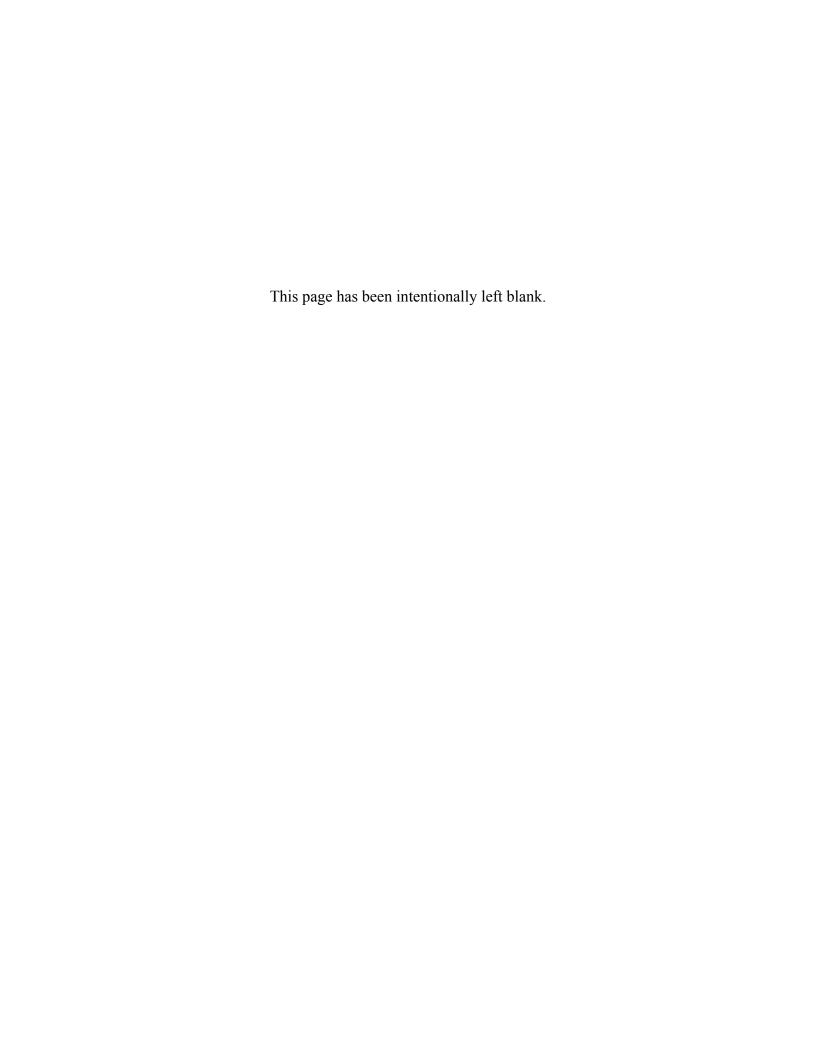
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# APPENDIX A DATA SUBMITTAL FORM



Mail to: RACT/BACT/LAERCLEARINGHOUSE

**RBLC**(MD-E143-03)

USEPA RTP, NC 27711

## RACT/BACT/LAER CLEARINGHOUSE DATA INPUT FORM (Revised 9/20/04)

Date Submitted
----------------

Corporate/Company Name: —	
Facility Name: State:	Facility Zip Code:
Facility Contact Information:  Facility Contact Name:  Telephone Number:  E-Mail Address:	B Adding new process to an existing facility C Modifing an existing process at an existing facility D Both B & C
Permit Number:  Federal Registry System (FRS) Number:  SIC Code:  NAICS Code:	Application Accepted: / / Estimated/Actual Final Permit Issued: / / Estimated/Actual
Affected Boundary Area Name  Distance to Boundary Area (km)	Affected Boundary Area Name  Distance to Boundary Area (km)

Facility Name: Permit Number: \_\_\_\_\_

	Emissions (+) Increase or (-)			Pollutant:	Emissions (E/MP)
llutant:	Emissions (T/YR):	Pollutant:	Emissions (T/YR):	Pollutant:	Emissions (T/YR):
		-			
	<del></del>	-			
	<del></del>		<del></del>		
	•				
acility Descri	iption:				
M. D					
Other Permit	tting Information: (Is there an	y other information, conside	rations, or special permitting fac	ctors that would be helpful	for readers to know?)
)ther Permit	ting Information: (Is there an	y other information, conside	rations, or special permitting fac	ctors that would be helpful	for readers to know?)
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Facility Name:			Permit Number:			
Process Information	<u>on</u>		(PLEASE NOTE: If the pollutant on the page is for the same process, only a distinctive Process Name in required.)			
Process Name/Descript	ion:					
RBLC Process Code:			Throughput Capacity/Size:			
(Process Notes continue						
Pollutant Information	tion Pollutant Name:					
Case-by-Case Basis (circle one): RACT BACT-PSD LAER BART MACT	Other Applicable II (select all that apply NSPS NESHAP MACT SIP Operating Permit	Requirements:	<b>Pollution Reduction Method Description:</b> Pollut	ion Prevention (P2)		
Other Case-by-Case Not Applicable	Other Not Applicable		Did factors, other than air pollution (Yes) (No technology considerations, influence the BACT technology decision? (circle one) (Unknown)	System:		
	NumericLimit :	<u>Units</u>		Pollution Control Cost Info:  Costs verified by Agency? Yes No  Costs are in dollars.		
Standard Emission Limit	::			(year)		
Pollutant/Compliance No	otes:			Cost Effectiveness (\$/T of poll. removed):		
				Incremental Cost Effectiveness (\$/T of poll. removed):		

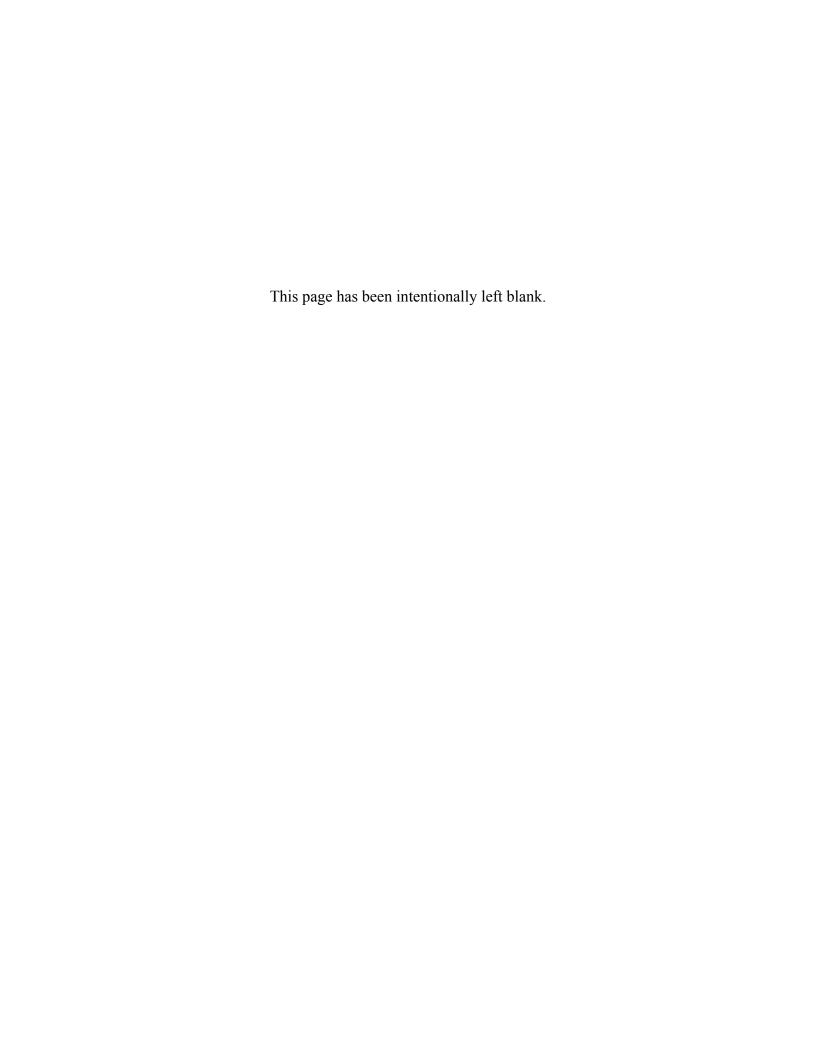


TABLE 4-1 Names and Characteristics of RBLC Data Fields

FIELD NAME	REQUIRED, RECOMMENDED, OR NOT REQUIRED	USED FOR QUERIES	NOTES
FACILITY LEVEL INFORM	ATION		
RBLC ID	Assigned Automatically	Y	Assigned by the system. Unique to each determination.
Corporate/Company Name	Recommended	Y	Name of the parent corporation, if applicable.
Facility Name	Required	Y	Name of the facility.
Facility Description	Recommended	N	Description of facility operations.
Facility County	Recommended	Y	
Facility Zip Code	Recommended	N	Zip codes can be found at: http://www.usps.gov/ncsc/lookups/lookups.htm
Facility Location - State	Required	Y	Assigned by the system.
EPA Region	Required	Y	Assigned by the system.
Facility Contact Name	Recommended	N	
Facility Contact Phone	Recommended	N	
Facility Contact E-mail	Recommended	N	

FIELD NAME	REQUIRED, RECOMMENDED, OR NOT REQUIRED	USED FOR QUERIES	NOTES
Agency Contact	Required	Y	Depending on the security authorization of the editor, either automatically assigned by the system or chosen from a drop down list. The permitting agency's name/code can be use for searches.
Other Agency Contact Info	Not required	N	
Permit Number	Required	Y	
Permit Type (New/Modified Source)	Recommended	N	
Permit Date	Recommended	Y	Must be actual date in order for the determination to be promoted to the Final data base.
Application Accepted Date	Recommended	N	
SIC Code	Recommended	Y	Drop down list; complete list on CHIEF web site.
NAICS Code	Recommended	N	Complete list on CHIEF web site.

FIELD NAME	REQUIRED, RECOMMENDED, OR NOT REQUIRED	USED FOR QUERIES	NOTES		
Facility Registry System Number (FRN)	Recommended	N	The Federal Registry System is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. This site is the companion to the FRS integrated searches in Envirofacts, a single point of access to select U.S. EPA environmental data. FRNs can be found at: http://oaspub.epa.gov/enviro/search\$.startup		
Other Permitting Info.	Recommended	N	Specifics of permit determination can be included here.		
Facility-wide Emissions Change	Recommended	Y			
Class 1 / U.S. Border Area Name	Recommended	Y			
Distance to Class I / U.S. Border Area	Recommended	Y			
PROCESS LEVEL INFORMATION					
Process Name	Required	Y			
Process Type Code	Required	Y	Includes process type code, selected from a drop-down list. Also listed in Appendix D of this User's Manual.		
Primary Fuel	Recommended	N	For combustion units only.		

FIELD NAME	REQUIRED, RECOMMENDED, OR NOT REQUIRED	USED FOR QUERIES	NOTES
Throughput and Units	Recommended	N	If this information is CBI, it should <b>not</b> be entered.
Process Notes	Recommended	N	
POLLUTANT LEVEL INFOR	MATION		
Pollutant Name and CAS Number	Required	Y	Select pollutant name and CAS number from the drop-down list.
Control Method Code	Recommended	Y	
Control Method Description	Recommended	Y	A control method description is not required when there are no controls (control method code = N)
Did factors, other than air pollution technology considerations, influence the BACT (technology) decision?	Recommended	N	Answer based on whether factors other than technology considerations (e.g., increment violations) were involved in the BACT decision.
Estimated Efficiency %	Recommended	Y	See note on "Emission Limit 1" emission limits below.
Compliance Verified?	Recommended	N	

FIELD NAME	REQUIRED, RECOMMENDED, OR NOT REQUIRED	USED FOR QUERIES	NOTES
Emission 1	Recommended (see Notes)	N	An emission limit is required during the QA step for every pollutant entry except as follows:  1) If no control is used, (control method code = N);  2) If P2 is used (control method code = P) and either the estimated % efficiency is provided or a material or operational criteria is specified in Control Method Description or Pollutant/Compliance Notes.
Emission Limit 1 Unit of Measure	Recommended	N	An emission unit is required if a limit has been entered.
Emission Limit 1 Avg Time/ Conditions	Recommended	N	Conditions that apply to the limit, such as operating conditions, or averaging period.
Emission Limit 2	Recommended	N	Applies only if the permit specifies an alternate of additional emission limit.
Emission Limit 2 Unit of Measure	Recommended	N	An emission unit is required if a limit has been entered.
Emission Limit 2 Avg Time/ Conditions	Recommended	N	Conditions that apply to the limit, such as operating conditions, or averaging period.

FIELD NAME	REQUIRED, RECOMMENDED, OR NOT REQUIRED	USED FOR QUERIES	NOTES
Standard Emission Limit	Recommended (see Notes)	Y	A standardized emission limit is required during QA review for the pollutants listed under the process type codes in Appendix E, <i>RBLC Standard Emission Units by Process Type Code</i> . If the process type and pollutant are not listed in Appendix E, an emission limit is not required.  For all processes, the emission limit for visible emissions (VE as percent opacity) should be listed in the standardized emission limit field.
Standard Emission Limit Unit of Measure	Recommended	Y	An emission unit is required if a limit has been entered.
Standard Emission Limit Avg Time/ Conditions	Recommended	N	Conditions that apply to the limit, such as operating conditions, or averaging period.
Case-by-Case Basis	Recommended	Y	The regulatory basis for pollutant limits
Other Applicable Requirements	Recommended	Y	
Dollar Value Year Used	Recommended	N	If this information is CBI, it should <b>not</b> be entered.
Costs Verified (by Agency)	Recommended	N	
Cost Effectiveness	Recommended	N	In dollars per ton.

FIELD NAME	REQUIRED, RECOMMENDED, OR NOT REQUIRED	USED FOR QUERIES	NOTES
Incremental Cost Effectiveness	Recommended	N	
Pollutant/Compliance Notes	Recommended	N	

#### QA/QC Checklist for Data Entry and Editing

#### For the Entire Determination

- C Keep in mind the general goals of a QA review: insuring entry completeness, and accuracy in data entry, coding, naming, and reasonableness.
- C Throughout the determination entry, check for typographical errors and misspellings, even in the notes fields. Make sure that the notes are concise, well worded, and informative.
- C Check for accuracy in data entry.
- C Check all required and recommended data fields. Use Table 4-1 and Appendix A to identify those fields.

#### **Facility Level Input Form**

- 1) Are name, address and location data reasonable and correct?
- 2) Check NAICS and SIC codes. If you were looking for information about this type of facility, would you search using the code that has been assigned?
- 3) Is the permit issued date an actual or estimated date? Is the permit issued date after the application received date?

#### **Process Level Input Form**

- 4) Are all of the processes covered by the determination included in the entry? Are the processes defined so that pollutants, controls and limits can be entered in an understandable way for each one?
- 5) Check the process name. Does it use the standard naming approach for processes described in the data entry instructions in Appendix A, *RBLC Data Submittal Form and Instructions* (e.g., turbine, single cycle, natural gas)?

Figure 4-1: QA/QC Checklist

- 6) Check the process code. If you were looking for this process, would you search using the code that you assigned?
- 7) Check the units for throughput. Use Appendix D to check units abbreviations.
- 8) If throughput is not in terms of fuel, is information provided about the throughput material in the notes?
- 9) Are all of the pollutants included for each process? In many cases, the permit addresses only one or a few of the pollutants that can be expected to be emitted from a process. If there are pollutants that are not included in the determination for a process, include an explanation in the process notes.

#### **Pollutant Level Input Form**

- 10) Is the Control Method Code properly assigned? Remember that a device added to a process that reduces emissions during the process (e.g., low-NO<sub>x</sub> burners) should be defined as pollution prevention, not as an add-on. Pollution prevention encompasses recycling, materials changes and reformulation, and pollution reduction technology that is integral to the process.
- 11) If the Control Method Code is add-on, pollution prevention or both (add-on *and* pollution prevention), there must be a description of the control method in the text field.
- 12) Check the descriptors for add-on control devices and pollution prevention methods. Use the names and abbreviations in Appendix D, *RBLC Process, Unit, and Pollutant Abbreviations* to insure that consistent terms are used throughout the data base.
- 13) Has compliance information been entered?
- 14) Have emission limits been entered? Limits can be entered as either emissions or as a control's percent efficiency. If the only limit is the percent efficiency, the efficiency should be entered in the field for emission limit 1 and in the percent efficiency field.
- 15) Are pollutant emission limits and percent efficiency levels reasonable?

Figure 4-1: QA/QC Checklist (continued)

- 16) Check units for emission limits 1 and 2. Use Appendix D to check abbreviations for emission units.
- 17) Emission limits for visible emissions (VE) should be expressed as percent opacity (% opacity). VE emission limits for all processes should be entered in the standardized emission limit field.
- 18) Check the processes in the determination against the list of processes included in Appendix E, *RBLC Standard Emission Units by Process Type Code*. If a process matches any of those on that list, there should be a standardized emission limit entered for the pollutants listed for that process.

Figure 4-1: QA/QC Checklist (continued)

# APPENDIX B AGENCY CODE LISTING

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## **Appendix B -- Agency Code Listing**

## **ALABAMA**

AL001	Alabama Dept. of Enviromental Mgmt.
AL002	Huntsville Air Poll Control Agency, AL
AL003	Jefferson Co Department of Health, AL

AL999 Other Alabama

#### **ALASKA**

AK001	Alaska Dept of Environmental Cons
AK002	Fairbanks North Star Borough, AK
AK003	S. Central Air, Anchorage APCA, AK
A TZ000	0.1 41 1

AK999 Other Alaska

## AMERICAN SAMOA

AS001	American	Samoa	Env	<b>Ouality</b>	z Co	mmission
110001	1 IIIIOI I CUII	Danie		V COLLIE		111111111111111111111111111111111111111

AS999 Other American Samoa

## <u>ARIZONA</u>

AZ001	Arizona Dept of Env Qual, Ofc of Air Qua
AZ002	Maricopa Co Air Pollution Control, AZ
AZ003	Pima Co Dept of Env Quality, AZ
AZ004	Pinal Co Air Quality Control Dist, AZ
AZ999	Other Arizona

## <u>ARKANSAS</u>

AR001 Arkansas Dept of Environmental	Quality
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AR999 Other Arkansas

#### **CALIFORNIA**

CA001	California Air Resources Board
CA002	Amador County APCD, CA
CA003	Bay Area AQMD, CA
CA004	Butte County AQMD, CA
CA005	Calaveras County APCD, CA
CA006	Colusa County APCD, CA
CA007	El Dorado County APCD, CA
CA046	Feather River AOMD, CA

$CA008^1$	Fresno APCD, CA
CA009	Glenn County APCD, CA
CA010	Great Basin Unified APCD, CA
CA011	Imperial County APCD, CA
CA012	Kern County APCD, CA
CA013 <sup>1</sup>	Kings County APCD, CA
CA014	Lake County AQMD, CA
CA015	Lassen County APCD, CA
CA016 <sup>1</sup>	Madera County APCD, CA
CA017	Mariposa County APCD, CA
CA018	Mendocino County AQMD, CA
$CA019^{1}$	Merced County APCD, CA
CA020	Modoc County APCD, CA
CA029	Mojave Desert AQMD, CA
CA021	Monterey Bay Unified APCD, CA
$CA022^1$	Mountain Counties Air Basin, CA
CA023	North Coast Unified AQMD, CA
CA024	Northern Sierra AQMD, CA
CA025	Northern Sonoma County APCD, CA
CA026	Placer County APCD, CA
$CA027^{1}$	Plumas County Env. Health Department, CA
CA028	Sacramento Metropolitan AQMD, CA
CA030	San Diego County APCD, CA
CA031	San Joaquin Valley APCD, CA
CA047	San Joaquin Valley APCD - Central Regional Office, CA
CA048	San Joaquin Valley APCD - Northern Regional Office, CA
CA049	San Joaquin Valley APCD - Southern Regional Office, CA
CA032	San Luis Obispo County APCD, CA
CA033	Santa Barbara County APCD, CA
CA034	Shasta County AQMD, CA
CA035	Siskiyou County APCD, CA
CA036	South Coast AQMD, CA
$CA037^1$	Standards County APCD, CA
CA038 <sup>1</sup>	Stanislaus County APCD, CA
$CA039^1$	Sutter County APCD, CA
CA040	Tehama County APCD, CA
CA041 <sup>1</sup>	Tulare County APCD, CA
CA042	Tuolumne County APCD, CA
CA043	Ventura County APCD, CA
CA044	Yolo-Solano APCD, CA
CA045 <sup>1</sup>	Yuba County APCD, CA
CA999	Other California

<sup>&</sup>lt;sup>1</sup> No longer active. Listed for historical purposes only.

## **COLORADO**

CO001 CO002 CO003 CO004 CO005 CO006	Colorado Dept of Health - Air Poll Ctrl Boulder County Health Department, CO Denver City-Co Air Qual/Env Prot, CO El Paso County Health Department, CO Jefferson Co Dept of Health & Env, CO Larimer Co Health Dept, Env Health, CO
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	<u>.</u>
CO006	Larimer Co Health Dept, Env Health, CO
CO007	Mesa County Health Department, CO
CO008	Pueblo City-County Health Department, CO
CO009	Weld County Health Department, CO
CO999	Other Colorado

## **CONNECTICUT**

CT001	Connecticut DEP, Bureau of Air Management
CT002	Bristol-Burlington Health Department, CT
CT003	City of Meriden, Dept Human Serv, CT
CT004	Dept of Air Poll Ctrl, Bridgeport, CT
CT005	Greenwich Department of Health, CT
CT006	New Haven Health Department, CT
CT007	Norwalk Department of Health, CT
CT008	Stamford Health Department, CT
CT009	Stratford Department of Health, CT
CT999	Other Connecticut

## **DELAWARE**

DE001	Delaware Dept of Natural Res & Env Ctrl
DECOC	0.1 D.1

#### DE999 Other Delaware

## **DISTRICT OF COLUMBIA**

DC001	DC Dept. of Health, Env. Health Admin., Air Quality Div.
DC999	Other District of Columbia

## **FLORIDA**

FL001	Florida Dept of Env Protection
FL002	Broward Co Ofc of Nat Res Prot, FL
FL003	City of Jacksonville, FL
FL004	Hillsborough Co Env Prot Comm, FL
FL005	Jacksonville, Bio-Environmental Serv, FL
FL006	Manatee County Public Health Unit, FL
FL007	Metro Dade Co Dept of Env Res Mgmt, FL

FL008 FL009 FL010 FL999	Palm Beach County Public Health Unit, FL Pinellas Co Dept of Env Mgmt, FL Sarasota County Air Program, FL Other Florida
<u>GEORGIA</u>	
GA001 GA999	Georgia Department of Natural Resources Other Georgia
<u>GUAM</u>	
GU001 GU999	Guam Environmental Protection Agency Other Guam
<u>HAWAII</u>	
HI001 HI999	Hawaii Dept. of Health, Clean Air Branch Other Hawaii
<u>IDAHO</u>	
ID001 ID999	Idaho Dept of Environmental Quality Other Idaho
<u>ILLINOIS</u>	
IL001 IL002 IL003 IL004 IL005 IL006 IL007 IL008 IL999	Illinois EPA, Div of Air Poll Control Bedford Park Env Qual Ctrl Board, IL Bensenville Air Poll Control Dist, IL City of Chicago, Env Prot Div, IL City of Evanston-Dept Bldg & Zoning, IL Cook Co Dept of Env Control, IL Dupage County Health Department, IL Village of McCook Env Board, IL Other Illinois
<u>INDIANA</u>	
IN001 IN002 IN003 IN004 IN005 IN006 IN007	Indiana Dept of Env Mgmt, Ofc of Air Anderson Air Pollution Control Dept, IN E. Chicago Dept of Air Qual Control, IN Evansville Air Pollution Control, IN Gary Air Pollution Control, IN Hammond Air Pollution Control Dept, IN Indianapolis Air Poll Control Div, IN

IN008	Lake County Air Pollution Control, IN
IN009	St. Joseph County Air Poll Control, IN
IN010	Vigo County Air Pollution Control, IN
INIOOO	Other Indiana

IN999 Other Indiana

## <u>IOWA</u>

IA001	Iowa Department of Natural Resources
IA002	Linn County Public Health Department, Air Quality Div., IA
IA003	Polk County Public Works, Air Quality Div., IA
IA999	Other Iowa

## **KANSAS**

KS001	Kansas Dept. of Health & Environment, Br. Of Air & Radiation
KS002	Kansas City/Wyandotte Co Health Dept, KS
KS003	Topeka-Shawnee County Health Agency, KS
KS004	Wichita-Sedgwick Co Comm Health Dept, KS
KS999	Other Kansas

## **KENTUCKY**

KY001	Kentucky DEP, Div for Air Quality
KY002	Jefferson Co APCD, KY
KY999	Other Kentucky

## **LOUISIANA**

LA001	Louisiana Department of Env Quality
LA999	Other Louisiana

## **MAINE**

ME001	Maine Department of Env Protection
ME999	Other Maine

## MARYLAND

MD001 MD002 MD003 MD004 MD005 MD006 MD007	Maryland Department of the Environment Allegany County Health Department, MD Anne Arundel Co Air Qual Cont Prog, MD Baltimore City Health Department, MD Baltimore Co Bur Air Qual/Waste Mgmt, MD Frederick County Health Department, MD
MD007	Harford County Health Department, MD
MD007 MD008	Howard County Health Department, MD
1.12 000	The ward County Treatm Department, WE

MD009	Montgomery	County DEP, MD

Prince George's County Health Dept, MD MD010

Other Maryland MD999

## **MASSACHUSETTS**

MA001	Massachusetts Div of Air Qual Control
MA002	Berkshire and Pioneer Valley APCD, MA
MA003	Boston Air Pollution Control Comm, MA
MA004	Massachusetts DEP, Central Reg Air Qual
MA005	Merrimack Valley & Metro Boston APCD, MA
MA006	SE Massachusetts Air Poll Ctrl Dist, MA
111000	

MA999 Other Massachusetts

## **MICHIGAN**

MI001	Michigan Department of Environmental Quality
MI002	City of Grand Rapids Env Serv Dept, MI
MI003	Wayne County Air Poll Control Div, MI
MI999	Other Michigan

## <u>MINNESOTA</u>

MN001	Minnesota Poll Ctrl Agcy, Air Qual Div
MN002	City of Bloomington, Env Poll Sec, MN
MN003	City of Richfield, Air Poll Ctrl, MN
MN004	Minneapolis Pollution Control Div, MN
MN005	St. Louis Park Inspectional Serv, MN
MN999	Other Minnesota

MN999 Other Minnesota

## **MISSISSIPPI**

MS001	Mississippi Dept of Env Quality
MS999	Other Mississippi

## <u>MISSOURI</u>

MO001	Missouri DNR, Air Poll Control Program
MO002	City of St. Louis Air Poll Ctrl, MO
MO003	Greene Co-City of Springfield APCA, MO
MO004	Kansas City, MO, Air Quality Section
MO005	St. Louis Co Air Poll Control Br, MO
MO999	Other Missouri

# **MONTANA**

MT001	Montana Dept of Environmental Quality
MT002	Cascade City-Co Air Poll Ctrl Prog, MT
MT003	Missoula City-County Health Dept, MT
MT004	Yellowstone County Air Poll Control, MT

MT999 Other Montana

# **NEBRASKA**

NE001	Nebraska Dept of Environmental Quality
NE002	Lincoln-Lancaster Co Health Dept, NE
NE003	Omaha Public Works Dept., Air Quality Control Div, NE

NE999 Other Nebraska

# **NEVADA**

NV001	Nevada Dept. of Environmental Protection, Br. of Air Pollution Control
NV002	Clark Co Dept. of Air Quality and Environmental Management
NV003	Washoe County District Health Dept, Air Quality Management Div., NV
NV999	Other Nevada

# **NEW HAMPSHIRE**

NH001 New Hampshire Dept of Env Serv, Air Res

NH999 Other New Hampshire

# **NEW JERSEY**

NJ001	New Jersey Dept of Env Protection
NJ002	City of Elizabeth City Hall, NJ
NJ003	Hudson Regional Health Commission, NJ
NJ004	Middlesex Co Air Poll Ctrl Prog, NJ
NJ999	Other New Jersey

**NEW MEXICO** 

NM001	New Mexico Environment Dept.,/APC Bureau
NM002	Albuquerque Env Health & Energy Dept NM
NIMAGOO	Other New Mexico

NM999 Other New Mexico

# NEW YORK

NY001	New York DEC, Div of Air Resources
NY002	Albany County Dept of Health, NY
NY003	Interstate Sanitation Commission, NY

NY004	Monroe County Department of Health, NY
NY005	Nassau Co DOH, Center for Env Prot, NY
NY006	New York City Bureau of Air Res, NY
NY007	Niagara Co Health Dept, Air Res Bur, NY
NY008	Rensselaer Co DOH, Div of Env Health, NY
NY009	Rockland Co DOH, Air Poll Ctrl, NY
NY010	Suffolk Co Ofc of Haz Mat Mgmt, NY
NY011	Westchester County Dept of Health, NY
NY999	Other New York

# NORTH CAROLINA

NC001	North Carolina Div of Env Mgmt
NC002	Cleveland County Health Department, NC
NC003	Cumberland Co Air Pollution Control, NC
NC004	Forsyth County Env Affairs Dept, NC
NC005	Mecklenburg Co Dept of Env Prot, NC
NC006	W. North Carolina Reg Air Poll Ctrl Bd
NC999	Other North Carolina

# NORTH DAKOTA

ND001	North Dakota State Department of Health
ND999	Other North Dakota

# <u>OHIO</u>

OH001	Ohio Environmental Protection Agency
OH002	Akron Reg Air Quality Mgmt Dist, OH
OH003	Canton Air Pollution Control Div, OH
OH004	City of Toledo, Env Services Div, OH
OH005	Cleveland Div of Air Poll Control, OH
OH006	Hamilton Co-Southwestern OH APCA
OH007	Lake County General Health District, OH
OH008	Mahoning-Trumbull Air Poll Ctrl Agcy, OH
OH009	Montgomery Co Reg Air Poll Ctrl Agcy, OH
OH010	North Ohio Valley Air Authority, OH
OH011	Portsmouth Local Air Agency, OH
OH012	Dayton Regional Air Poll Ctrl Agency, OH
OH999	Other Ohio

# **OKLAHOMA**

OK001	Oklahoma Department of Environmental Quality
OK002	City-Co Health Dept of Oklahoma City
OK003	Tulsa City-County Health Department, OK

OK999 Other Oklahoma

### **OREGON**

OR001 Oregon Dept of Environmental Quality OR002 Lane Regional Air Poll Authority, OR

OR999 Other Oregon

#### **PENNSYLVANIA**

PA001 Pennsylvania DER, Bur of Air Qual Ctrl PA002 Allegheny Co Health Dept. - Air Quality PA003 Philadelphia DOPH, Air Mgmt Serv, PA

PA999 Other Pennsylvania

# PUERTO RICO

PR001 Puerto Rico Env Quality Board

PR999 Other Puerto Rico

### RHODE ISLAND

RI001 Rhode Island Div of Air & Haz Mat

RI999 Other Rhode Island

### **SOUTH CAROLINA**

SC001 South Carolina Dept of Health & Env Ctrl SC002 City of Columbia Air Poll Control, SC

SC999 Other South Carolina

### **SOUTH DAKOTA**

SD001 South Dakota Dept of Water & Nat'l Res

SD999 Other South Dakota

#### **TENNESSEE**

TN001 Tennessee Div of Air Pollution Control TN002 Chattanooga-Hamilton Co APCB, TN

TN003 Knox Co Air Quality Mgt., Dept. of Public Health, TN

TN004 Memphis and Shelby Co Health Dept, TN TN005 Metro Health/Nashville & Davidson Co, TN

TN999 Other Tennessee

# **TEXAS**

TX001	Texas Commission on Environmental Quality
TX002	City of Dallas, Health & Human Serv, TX
TX003	City of Houston, Bureau Air Qual Ctrl., TX
TX004	El Paso County Health Unit, TX
TX005	Fort Worth Air Pollution Control, TX
TX006	Galveston County Health District, TX
TX007	Harris County Pollution Control Dept, TX
TX008	Lubbock City Health Department, TX
TX999	Other Texas

# <u>UTAH</u>

UT001	Utah Department of Environmental Quality, Division of Air Quality
UT999	Other Utah

# **VERMONT**

VT001	Vermont Air Pollution Control Division
VT999	Other Vermont

# **VIRGIN ISLANDS**

VI001	Virgin Islands Dept of Planning, Nat Res
VI999	Other Virgin Islands

# <u>VIRGINIA</u>

VA001	Virginia Environmental Quality Air Division
VA999	Other Virginia

# **WASHINGTON**

WA001	Washington State Department of Ecology
WA002	Benton-Franklin-Walla Walla Co APA, WA
WA003	Northwest Air Pollution Authority, WA
WA004	Olympic Air Poll Control Authority, WA
WA005	Puget Sound Air Poll Control Agency, WA
WA006	Southwest Air Poll Ctrl Authority, WA
WA007	Spokane Co Air Poll Control Auth, WA
WA008	Yakima County Clean Air Authority, WA
WA999	Other Washington

# **WEST VIRGINIA**

West Virginia Air Pollution Control Comm Other West Virginia WV001

WV999

# **WISCONSIN**

WI001	Wisconsin Dept of Natural Resources
WI002	Eau Claire City-Co Health Dept, WI
WI003	Madison Department of Public Health, WI
WI004	Milwaukee Co DPW, Env Serv Sec, WI

WI999 Other Wisconsin

# **WYOMING**

Wyoming Air Qual Div, Dept of Env Qual Other Wyoming WY001

WY999

# **OTHER**

OT001	National Park Service
OT002	EPA Region I
OT003	EPA Region II
OT004	EPA Region III
OT005	EPA Region IV
OT006	EPA Region V
OT007	EPA Region VI
OT008	EPA Region VII
OT009	EPA Region VIII
OT010	EPA Region IX
OT011	EPA Region X
OT012	EPA/OECA
OT013	EPA/OAQPS

# APPENDIX C PROCESS TYPE CODE LISTING

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# RBLC Process Type Codes (All Active Codes) October , 2006

**PLEASE NOTE:** The RBLC is currently in the process of re-organizing the Process Type Code (PTC) system. The archived external combustion PTCs can be found at the end of this Appendix.

### 10.000 FUEL COMBUSTION

- 11.000 Utility- and Large Industrial-Size Boilers/Furnaces (> 250 million BTU/H)
  - 11.100 Solid Fuel & Solid Fuel Mixtures (> 250 million BTU/H)
    - 11.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
    - 11.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
    - 11.190 Other Solid Fuel & Solid Fuel Mixtures
  - 11.200 Liquid Fuel & Liquid Fuel Mixtures (> 250 million BTU/H)
    - 11.210 Residual Fuel Oil (ASTM # 4,5,6)
    - 11.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
    - 11.290 Other Liquid Fuel & Liquid Fuel Mixtures
  - 11.300 Gaseous Fuel & Gaseous Fuel Mixtures (> 250 million BTU/H)
    - 11.310 Natural Gas (includes propane and liquefied petroleum gas)
    - 11.320 Landfill/Digester/Bio-Gas
    - 11.390 Other Gaseous Fuel & Gaseous Fuel Mixtures
  - 11.900 Other Fuels and Combinations (> 250 million BTU/H) (e.g., solid/liquid, liquid/gas)
- 12.000 Industrial-Size Boilers/Furnaces (> 100 million BTU/H & ≤ 250 million BTU/H)
  - 12.100 Solid Fuel & Solid Fuel Mixtures (> 100 million BTU/H &  $\,\leq 250$  million BTU/H)
    - 12.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
    - 12.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
    - 12.190 Other Solid Fuel & Solid Fuel Mixtures
  - 12.200 Liquid Fuel & Liquid Fuel Mixtures (> 100 million BTU/H &  $\leq$  250 million BTU/H)
    - 12.210 Residual Fuel Oil (ASTM # 4,5,6)
    - 12.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
    - 12.290 Other Liquid Fuel & Liquid Fuel Mixtures
  - 12.300 Gaseous Fuel & Gaseous Fuel Mixtures (> 100 million BTU/H &  $\leq$  250 million BTU/H)
    - 12.310 Natural Gas (includes propane and liquefied petroleum gas)
    - 12.320 Landfill/Digester/Bio-Gas
    - 12.390 Other Gaseous Fuel & Gaseous Fuel Mixtures
  - 12.900 Other Fuels and Combinations (> 100 million BTU/H & ≤ 250 million BTU/H)

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13.000 Commercial/Institutional-Size Boilers/Furnaces (≤ 100 million BTU/H)
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13.100 Solid Fuel & Solid Fuel Mixtures (≤ 100 million BTU/H)

13.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)

13.120 Biomass (includes wood, wood waste, bagasse, and other biomass)

13.190 Other Solid Fuel & Solid Fuel Mixtures

13.200 Liquid Fuel & Liquid Fuel Mixtures (≤ 100 million BTU/H)

13.210 Residual Fuel Oil (ASTM # 4,5,6)

13.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)

13.290 Other Liquid Fuel & Liquid Fuel Mixtures

13.300 Gaseous Fuel & Gaseous Fuel Mixtures (≤ 100 million BTU/H)

13.310 Natural Gas (includes propane and liquefied petroleum gas)

13.320 Landfill/Digester/Bio-Gas

13.390 Other Gaseous Fuel & Gaseous Fuel Mixtures

13.900 Other Fuels and Combinations (≤ 100 million BTU/H) (e.g., solid/liquid, liquid/gas)

#### 15.000 Large Combustion Turbines (> 25 MW)

15.100 Simple Cycle (no waste heat recovery) (> 25 MW)

15.110 Natural Gas (includes propane and liquefied petroleum gas)

15.120 Landfill/Digester/Bio-Gas

15.150 Other Gaseous Fuel & Gaseous Fuel Mixtures

15.190 Liquid Fuel & Liquid Fuel Mixtures

15.200 Combined Cycle & Cogeneration (> 25 MW)

15.210 Natural Gas (includes propane and liquefied petroleum gas)

15.220 Landfill/Digester/Bio-Gas

15.250 Other Gaseous Fuel & Gaseous Fuel Mixtures

15.290 Liquid Fuel & Liquid Fuel Mixtures

15.900 Other/Unknown Cycle and/or Fuel (> 25 MW)

#### 16.000 Small Combustion Turbines (≤ 25 MW)

16.100 Simple Cycle (turbine alone w/out waste heat recovery) (≤ 25 MW)

16.110 Natural Gas (includes propane and liquefied petroleum gas)

16.120 Landfill/Digester/Bio-Gas (≤ 25 MW)

16.150 Other Gaseous Fuel & Gaseous Fuel Mixtures

16.190 Liquid Fuel & Liquid Fuel Mixtures

16.200 Combined Cycle & Cogeneration (≤ 25 MW)

16.210 Natural Gas (includes propane and liquefied petroleum gas)

16.220 Landfill/Digester/Bio-Gas

16.250 Other Gaseous Fuel & Gaseous Fuel Mixtures

16.290 Liquid Fuel & Liquid Fuel Mixtures

16.900 Other/Unknown Cycle and/or Fuel (≤ 25 MW)

### 17.000 Internal Combustion Engines

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

#### 19.000 Miscellaneous Combustion

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

### 20.000 WASTE DISPOSAL

- 21.000 Waste Combustion Processes
  - 21.100 Commercial/Industrial Solid Waste Combustion
  - 21.200 Hazardous Waste Incineration
  - 21.300 Hospital/Medical/Infectious Waste Incineration
  - 21.400 Municipal Waste Combustion
  - 21.500 Wastewater Treatment Sludge Incineration
  - 21.900 Mixed/Other Waste Combustion/Incineration
- 22.000 Wastewater/Contaminated Ground Water Treatment (except 21.500)
  - 22.100 Contaminated Ground Water Treatment
  - 22.200 Industrial Wastewater Treatment
  - 22.300 Publically Owned Treatment Works (POTW)
  - 22.900 Other Wastewater Treatment Processes
- 29.000 Other Waste Processing and Disposal

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

# 30.000 WOOD PRODUCTS INDUSTRIES

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

### 40.000 ORGANIC EVAPORATIVE LOSSES

# 41.000 SURFACE COATING/PRINTING/GRAPHIC ARTS

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

#### 42.000 LIQUID MARKETING (PETROLEUM PRODUCTS, GASOLINE, VOL)

- 42.001 Gasoline Bulk Plants
- 42.002 Gasoline Bulk Terminals
- 42.003 Gasoline Marketing (except 42.001 & 42.002)
- 42.004 Petroleum Liquid Marketing (except 42.001-003 & 42.005-006)
- 42.005 Petroleum Liquid Storage in Fixed Roof Tanks
- 42.006 Petroleum Liquid Storage in Floating Roof Tanks
- 42.009 Volatile Organic Liquid Storage
- 42.010 Volatile Organic Liquid Marketing (except 42.009)
- 42.999 Other Liquid Marketing Sources

# 49.000 ORGANIC EVAPORATIVE LOSSES (except all 41.000 & 42.000 process codes)

- 49.001 Aerosol Can Filling
- 49.012 Architectural & Industrial Maintenance (AIM) Coatings
- 49.013 Automobile Refinish Coatings

- 49.011 Consumer Products
- 49.002 Dry Cleaning PERC/Chlorinated Solvents
- 49.003 Dry Cleaning Petroleum Solvents
- 49.004 Fiberglass Boat Manufacturing
- 49.005 Fiberglass/Reinforced Polymer Products Manufacturing (except 49.004)
- 49.006 Halogenated Solvent Cleaners
- 49.007 Ink Manufacturing
- 49.008 Organic Solvent Cleaning & Degreasing (except 49.006)
- 49.009 Paint/Coating/Adhesives Manufacturing
- 49.010 Paint Stripping
- 49.999 Other Organic Evaporative Loss Sources

### 50.000 PETROLEUM/NATURAL GAS PRODUCTION AND REFINING

- 50.001 Oil and Gas Field Services
- 50.002 Natural Gas/Gasoline Processing Plants
- 50.003 Petroleum Refining Conversion Processes (cracking, CO boilers, reforming, alkylation, polymerization, isomerization, coking)
- 50.007 Petroleum Refining Equipment Leaks/Fugitive Emissions
- 50.004 Petroleum Refining Feedstock (blending, loading and unloading)
- 50.008 Petroleum Refining Flares and Incinerators (except acid gas/sulfur recovery unit incinerators 50.006)
- 50.005 Petroleum Refining Separation Processes (distillation and light ends recovery)
- 50.006 Petroleum Refining Treating Processes (hydrodesulfurization, hydrotreating, chemical sweetening, acid gas removal, deasphalting, sulfur recovery units, acid gas/sulfur recovery unit incinerators)
- 50.009 Petroleum Refining Wastewater and Wastewater Treatment
- 50.010 Shale Processing
- 50.999 Other Petroleum/Natural Gas Production & Refining Sources (except 50.001-010 & 42.000)

# 60.000 CHEMICALS MANUFACTURING

# 61.000 AGRICULTURAL CHEMICALS MANUFACTURING

- 61.012 Fertilizer Production (except 61.009)
- 61.009 Phosphate Fertilizers Production
- 61.999 Other Agricultural Chemical Manufacturing Sources

#### 62.000 INORGANIC CHEMICALS MANUFACTURING

- 62.003 Chlorine Production
- 62.006 Fume Silica Production
- 62.008 Hydrogen Cyanide Production
- 62.020 Inorganic Liquid/Gas Storage & Handling
- 62.014 Nitric Acid Plants

- 62.010 Phosphoric Acid Manufacturing
- 62.018 Sodium Carbonate Production
- 62.012 Sodium Cyanide Production
- 62.019 Sulfur Recovery (except 50.006)
- 62.015 Sulfuric Acid Plants
- 62.999 Other Inorganic Chemical Manufacturing Sources

#### 63.000 POLYMER AND RESIN PRODUCTION

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

# 64.000 SYNTHETIC ORGANIC CHEMICAL MANUFACTURING INDUSTRY (SOCMI)

- 64.001 Batch Reaction Vessels (except 69.011)
- 64.002 Equipment Leaks (valves, compressors, pumps, etc.)
- 64.003 Processes Vents (emissions from air oxidation, distillation, and other reaction vessels)
- 64.004 Storage Tanks (SOCMI Chemicals only)
- 64.005 Transfer of SOCMI Chemicals (loading/unloading, filling, etc.)
- 64.006 Wastewater Collection & Treatment (SOCMI only)
- 64.999 Other SOCMI Industry Sources

### 65.000 SYNTHETIC FIBERS PRODUCTION

- 65.001 Acrylic Fibers/Modacrylic Fibers Production
- 65.003 Spandex Production
- 65.999 Other Synthetic Fibers Production Sources

#### 69.000 OTHER CHEMICAL MANUFACTURING (except 61, 62, 63, 64 & 65)

- 69.015 Carbon Black Manufacturing
- 69.008 Explosives Production
- 69.011 Pharmaceuticals Production
- 69.016 Soap & Detergent Manufacturing

# 70.000 FOOD AND AGRICULTURAL PRODUCTS (also see 61 - AGRICULTURAL CHEMICALS)

70.100 Alcohol Production

70.110 Alcoholic Beverage Production

70.120 Alcohol Fuel Production

70.190 Other Alcohol Production

70.200 Grain Handling and Drying

70.210 Grain Dryers

70.230 Grain Loading & Unloading

70.290 Other Grain Handling

70.300 Vegetable Oil Manufacturing

70.310 Corn & Sun Flower Seed Oil Manufacturing - Germ Wet Mill

70.320 Corn Oil Manufacturing -Dry Mill

70.330 Cotton Seed Oil Manufacturing

70.350 Soybean Oil Manufacturing

70.390 Other Vegetable Oil Manufacturing Processes

70.400 Fruit & Vegetable Processing

70.500 Agricultural Products Processing & Manufacturing

70.510 Starch Manufacturing

70.520 Tobacco Processing

70.530 Cotton Ginning

70.540 Seeds, Nuts, Spices, & Herbs Processing

70.550 Bakeries and Snack Foods

70.590 Other Agricultural Products

70.600 Meat Processing

70.700 Fish Processing

70.900 Other Food & Agricultural Products & Processes

# 80.000 METALLURGICAL INDUSTRY

### 81.000 FERROUS METALS INDUSTRY

81.100 Coke Processes

81.110 Coke Oven Batteries - non-by product

81.111 Pushing

81.112 Battery Stack

81.113 Doors

81.114 Lids

81.115 Charging

81.190 Other Coke Processes

81.200 Steel Production (excludes Steel & Iron Foundry Processes)

81.210 Electric Arc Furnaces

81.220 Hot Metal Transfer & Ladle Processes

- 81.230 Casting & Pouring Processes
- 81.290 Other Steel Manufacturing Processes
- 81.300 Steel Foundry Processes
  - 81.310 Electric Arc Furnaces
  - 81.320 Cupola Furnaces
  - 81.330 Induction Furnaces
  - 81.340 Ladle Metallurgy Processes
  - 81.350 Casting & Pouring Processes
  - 81.360 Core Making Processes
  - 81.370 Miscellaneous Melt Shop Operations
  - 81.380 Scrap Handling & Preparation Processes
  - 81.390 Other Steel Foundry Processes
- 81.400 Iron Foundry Processes
  - 81.410 Cupola Furnaces
  - 81.420 Induction Furnaces
  - 81.430 Desulfurization
  - 81.440 Sand, Core & Mold Making Processes
  - 81.450 Casting & Pouring Processes
  - 81.460 Shake Out Processes
  - 81.490 Other Iron Foundry Processes
- 81.500 Ferroalloy Production Processes (Includes Stainless & Specialty Steels)
  - 81.510 Electric Arc Furnaces
  - 81.520 Metal Oxygen Refining
  - 81.530 Fugitive Dust Sources
  - 81.590 Other Ferroalloy Production Processes
- 81.600 Pickling Processes
- 81.900 Other Ferrous Metal Industry Processes

#### 82.000 NONFERROUS METALS INDUSTRY

- 82.100 Aluminum Products & Smelting
  - 82.110 Primary Aluminum
    - 82.111 Primary Aluminum Furnaces & Pot Lines
    - 82.119 Misc. Primary Aluminum Processes
  - 82.120 Secondary Aluminum
    - 82.121 Secondary Aluminum Furnaces
    - 82.123 Secondary Aluminum Casting Lines
    - 82.129 Misc. Secondary Aluminum Processes
- 82.300 Brass Production
- 82.400 Copper Products & Smelting
  - 82.410 Primary Copper Production
  - 82.420 Secondary Copper Production
- 82.500 Lead Products & Smelting
  - 82.510 Lead Acid Battery Manufacturing
  - 82.520 Secondary Lead Smelting
  - 82.590 Miscellaneous Lead Products & Smelting

# 90.000 MINERAL PRODUCTS

- 90.001 Alumina Processing
- 90.035 Asbestos Manufacturing
- 90.002 Asphalt/Coal Tar Application Metal Pipes
- 90.003 Asphalt Concrete Manufacturing
- 90.004 Asphalt Processing (except 90.002, 90.003 & 90.034)
- 90.034 Asphalt Roofing Products Manufacturing
- 90.017 Calciners & Dryers at Mineral Processing Facilities
- 90.005 Calcium Carbide Manufacturing
- 90.006 Cement Manufacturing (except 90.028)
- 90.007 Chromium Refractories Production
- 90.008 Clay and Fly Ash Sintering
- 90.009 Clay Products (including Bricks & Ceramics)
- 90.010 Coal Conversion/Gasification
- 90.011 Coal Handling/Processing/Preparation/Cleaning
- 90.012 Concrete Batch Plants
- 90.013 Elemental Phosphorous Plants
- 90.014 Frit Manufacturing
- 90.015 Glass Fiber Manufacturing (except 90.033)
- 90.016 Glass Manufacturing
- 90.018 Lead Ore Crushing and Grinding
- 90.019 Lime/Limestone Handling/Kilns/Storage/Manufacturing
- 90.020 Mercury Ore Processing
- 90.021 Metallic Mineral/Ore Processing (except 90.018, 90.020 & 90.031)
- 90.022 Mineral Wool Manufacturing
- 90.023 Mining Operations (except 90.032)
- 90.024 Non-metallic Mineral Processing (except 90.011, 90.019, 90.017, 90.026) (NOTE: This category includes stone quarrying, sand and gravel processing, gypsum processing, perlite processing and all other non-metallic mineral/ore processing.)
- 90.026 Phosphate Rock Processing
- 90.027 Phosphogypsum Stacks
- 90.028 Portland Cement Manufacturing
- 90.029 Refractories
- 90.031 Taconite Iron Ore Processing
- 90.032 Underground Uranium Mines
- 90.033 Wool Fiberglass Manufacturing
- 90.999 Other Mineral Processing Sources

# 99.000 MISCELLANEOUS SOURCES

- 99.001 Abrasive Blasting
- 99.002 Chromic Acid Anodizing
- 99.003 Comfort Cooling Towers
- 99.004 Commercial Sterilization Facilities
- 99.005 Decorative Chromium Electroplating
- 99.006 Electronics Manufacturing (except 99.011)
- 99.013 Electroplating/Plating (except Chrome 99.002, 99.005 & 99.007)
- 99.100 Fugitive Dust Sources
  - 99.110 Agricultural Activities
  - 99.120 Ash Storage, Handling, and Disposal
  - 99.130 Construction Activities
  - 99.140 Paved Roads
  - 99.150 Unpaved Roads
  - 99.190 Other Fugitive Dust Sources
- 99.019 Geothermal Power
- 99.007 Hard Chromium Electroplating
- 99.008 Hospital Sterilization Facilities
- 99.009 Industrial Process Cooling Towers
- 99.017 Leather Tanning
- 99.014 Polystyrene Foam Products Manufacturing
- 99.016 Polyurethane Foam Products Manufacturing
- 99.020 Rocket Demilitarization
- 99.010 Rocket Engine Test Firing
- 99.015 Rubber Tire Manufacturing and Retreading
- 99.011 Semiconductor Manufacturing
- 99.018 Synthetic Fuels Production (except 70.016 & 90.010)
- 99.012 Welding & Grinding
- 99.999 Other Miscellaneous Sources

# **ARCHIVED CODES:**

#### 11.000 EXTERNAL COMBUSTION

- 11.001 Bagasses Combustion
- 11.002 Coal Combustion
- 11.006 Fuel Oil Combustion
- 11.003 Lignite Combustion
- 11.004 Multiple Fuels Combustion
- 11.005 Natural Gas Combustion
- 11.007 Waste Oil Combustion
- 11.008 Wood/Wood Waste Combustion
- 11.999 Other External Combustion Sources

#### 14.000 MISCELLANEOUS HEATERS AND FURNACES (UNKNOWN SIZE)

- 14.100 Solid Fuel & Solid Fuel Mixtures
- 14.200 Liquid Fuel & Liquid Fuel Mixtures
- 14.300 Gaseous Fuel & Gaseous Fuel Mixtures
- 14.900 Other/Unknown Fuels and Combinations (e.g., solid/liquid, liquid/gas)

#### 15.000 INTERNAL COMBUSTION

- 15.001 Aviation Fuels
- 15.002 Diesel Fuel
- 15.006 Fuel Oil
- 15.003 Gasoline
- 15.007 Multiple Fuels
- 15.004 Natural Gas
- 15.005 Process Gas
- 15.999 Other Internal Combustion Sources

#### 21.000 WASTE COMBUSTION PROCESSES

- 21.001 Municipal Waste Combustors/Incinerators
- 21.002 Municipal Waste Landfills
- 21.003 Publicly Owned Treatment Works (POTW) Emissions (except 21.004)
- 21.004 Sewage Sludge Incineration
- 21.999 Other Municipal Waste Processing/Disposal Facilities

#### 22.000 WASTEWATER/CONTAMINATED GROUND WATER TREATMENT

- 22.001 Benzene Waste Treatment
- 22.002 Hazardous Waste Incineration
- 22.003 Hazardous Waste Landfills

- 22.004 Site Remediation
- 22.005 Treatment, Storage and Disposal Facilities (TSDF) (except 22.002, 22.003 & 22.006)
- 22.006 Contaminated Soil Treatment
- 22.007 Asbestos Demolition, Renovation, and Disposal
- 22.999 Other Hazardous Waste Processing/Disposal Facilities

#### 29.000 OTHER WASTE PROCESSING AND DISPOSAL

- 29.001 Automobile Body Shredding/Incineration
- 29.002 Industrial Wastewater/Contaminated Water Treatment
- 29.003 Industrial Landfills
- 29.004 Medical/Infectious Waste Incineration
- 29.999 Other Waste Disposal Sources

#### 30.000 WOOD PRODUCTS INDUSTRY

- 30.001 Charcoal
- 30.002 Kraft Pulp Mills
- 30.003 Plywood and Veneer Operations
- 30.004 Pulp and Paper Production other than Kraft
- 30.005 Reconstituted Panelboard Plants (waferboard, particleboard, etc.)
- 30.006 Wood Treatment
- 30.007 Woodworking
- 30.999 Other Wood Products Industry Sources

#### 61.000 AGRICULTURAL CHEMICALS MANUFACTURING

- 61.001 2,4-D Salts and Esters Production
- 61.002 4-Chloro-2-Methylphenoxyacetic Acid Production
- 61.003 4,6-Dinitro-o-Cresol Production
- 61.004 Captafol (tm) Production
- 61.005 Captan (tm) Production
- 61.006 Chloroneb (tm) Production
- 61.007 Chlorthalonil (tm) Production
- 61.008 Dacthal (tm) Production
- 61.010 Sodium Pentachlorophenate Production
- 61.011 Tordon Acid Production

#### 62.000 INORGANIC CHEMICALS MANUFACTURING

- 62.001 Ammonium Sulfate Production Caprolactam By-Product Plants
- 62.002 Antimony Oxides Manufacturing
- 62.004 Chromium Chemicals Manufacturing
- 62.005 Cyanuric Chemicals Manufacturing
- 62.007 Hydrochloric Acid Production

- 62.009 Hydrogen Fluoride Production
- 62.011 Quaternary Ammonium Compounds Production
- 62.013 Uranium Hexafluoride Production
- 62.016 Chloroalkali Production
- 62.017 Hydrofluoric Acid Production

#### 63.000 POLYMER AND RESIN PRODUCTION

- 63.001 Acetal Resins Production
- 63.003 Alkyd Resins Production
- 63.004 Amino Resins Production
- 63.005 Butadiene-Furfural Cotrimer (R-11)
- 63.007 Carboxymethylcellulose Production
- 63.008 Cellophane Production
- 63.009 Cellulose Ethers Production
- 63.010 Epichlorohydrin Elastomers Production
- 63.011 Epoxy Resins Production
- 63.014 Hypalon (tm) Production
- 63.016 Methylcellulose Production
- 63.017 Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene Production
- 63.018 Methyl Methacrylate-Butadiene-Styrene Terpolymers Production
- 63.019 Neoprene Production
- 63.020 Nitrile Butadiene Rubber Production
- 63.021 Non-Nylon Polyamides Production
- 63.022 Nylon 6 Production
- 63.023 Phenolic Resins Production
- 63.024 Polybutadiene Rubber Production
- 63.027 Polyether Polyols Production
- 63.030 Polymethyl Methacrylate Resins Production
- 63.032 Polysulfide Rubber Production
- 63.034 Polyvinyl Alcohol Production
- 63.035 Polyvinyl Butyral Production
- 63.038 Styrene-Acrylonitrile Production

#### 65.000 SYNTHETIC FIBERS PRODUCTION

- 65.002 Rayon Production
- 69.000 CHEMICAL MANUFACTURING (except 61, 62, 63, 64 & 65)
- 69.001 Benzyltrimethylammonium Chloride Facilities
- 69.002 Butadiene Dimers Production
- 69.003 Carbonyl Sulfide Production
- 69.004 Chelating Agents Production
- 69.005 Chlorinated Paraffins Production

- 69.006 Dodecanedioic Acid Production
- 69.007 Ethylidene Norbornene Production
- 69.009 Hydrazine Production
- 69.010 OBPA/1,3-Diisocyanate Production
- 69.012 Photographic Chemicals Production
- 69.013 Phthalate Plasticizers Production
- 69.014 Rubber Chemicals Manufacturing
- 69.017 Propellant Manufacturing & Production

#### 70.000 FOOD AND AGRICULTURAL PRODUCTS

- 70.001 Alfalfa Dehydrating
- 70.002 Baker's Yeast Manufacturing
- 70.003 Bread Bakeries
- 70.004 Cellulose Food Casing Manufacturing
- 70.005 Coffee Roasting
- 70.006 Cotton Ginning
- 70.007 Feed and Grain Handling, Storage & Processing (including Mills and Elevators)
- 70.008 Alcoholic Beverages Production
- 70.009 Fish Processing
- 70.010 Fruit and Vegetable Processing
- 70.011 Meat Smokehouses
- 70.012 Roasting (except 70.005)
- 70.013 Starch Manufacturing
- 70.014 Sugar Cane Processing
- 70.015 Vegetable Oil Production
- 70.016 Alcohol Fuel Production
- 70.999 Other Food and Agricultural Products Sources

#### 81.000 FERROUS METALS INDUSTRY

- 81.001 Coke By-product Plants
- 81.002 Coke Production (except 81.001)
- 81.003 Ferroalloy Production
- 81.004 Iron Foundries
- 81.005 Stainless Steel/Specialty Steel Manufacturing
- 81.006 Steel Foundries
- 81.007 Steel Manufacturing (except 81.005 & 81.006)
- 81.008 Steel Pickling HCL Process
- 81.999 Other Ferrous Metals Industry Sources

# 82.00 NON-FERROUS METALS INDUSTRY

- 82.001 Lead Acid Battery Manufacturing
- 82.002 Lead Acid Battery Reclamation

- 82.003 Lead Oxide and Pigment Production
- 82.004 Lead Products (except 82.001-002, 82.006 & 82.012)
- 82.005 Primary Aluminum Production
- 82.006 Primary Copper Smelting
- 82.007 Primary Lead Smelting
- 82.008 Primary Magnesium Refining
- 82.009 Primary Zinc Smelting
- 82.010 Secondary Aluminum Production
- 82.011 Secondary Brass & Brass Ingot Production
- 82.012 Secondary Copper Smelting & Alloying
- 82.013 Secondary Lead Smelting
- 82.014 Secondary Magnesium Smelting
- 82.015 Secondary Zinc Processing
- 82.016 Beryllium Processing and Manufacturing
- 82.999 Other Non-Ferrous Metals Industry Sources

# APPENDIX D ABBREVIATIONS FOR PROCESSES AND UNITS

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# Abbreviations for Processes and Descriptors

<u>Abbreviation</u> <u>Process or Descriptor</u>

ADD additive
AL aluminum
AM American
ASSOC association
ATMOS atmospheric
CALC catalytic

CEM continuous emission monitoring

CO company **COLL** collection **COOP** cooperative **CORP** corporation **DECARB** decarbonization **DESULF** desulfurization DISTIL distillation **DISTN** distribution DIV division E eastern EA each **EFF** efficiency **ELECT** electric **EMISS** emissions **ENVIRON OR ENV** environmental

ESP electrostatic precipitator

FAC facility

FCC fluid catalytic cracking
FCCU fluid catalytic cracking unit
FGR flue gas recirculation

FURN furnace

GEN generator HAND handling

HRSG heat recovery steam generator

HVLP high-volume, low pressure (spray guns)

I.C. internal combustion

INCIN incinerator
INDEP independent
INTERNAT international
LAB laboratory

Abbreviation Process or Descriptor

LDOUT loadout
LIQ liquid
LT light
MATL material

MFG manufacturing
MISC miscellaneous
MODIF modification
NAT natural

NAT natural NATL national

POLL pollutant/pollution

**PREP** preparation **PROD** production **PWR** power **REC** recovery **RECIP** reciprocating **RECLAM** reclamation **REFIG** refrigeration **REFIN** refinery REG regular **REGEN** regenerator **RESID** residual **ROT** rotary

SCR selective catalytic reduction

SCRUB scrubber
SECOND secondary
SHIP shipping

SNCR selective non-catalytic reduction

SOLN solution STOR storage

SUP supplementary

SYS system
TRANS transmission
UNIV university
VAC vacuum
VERT vertical

#### Abbreviations for Emission Limit Units

<u>Abbreviation</u> <u>Emission Limit Unit</u>

ACF actual cubic feet

ACFM actual cubic feet per minute ACS applied coating solids

ADP air dried pulp

ADTP air dried tons product

ADTFP air dried tons of final product air dried tons of unbleached pulp

ADUP air dried unbleached pulp

AMP-H ampere hours
AV average
BBL barrels
BF board feet

BHP brake horsepower
BLS black liquor solids
BPSD barrels per stream day
BTU British thermal units

CF cubic feet

CFM cubic feet per minute

CUYD cubic yard D day DFEED dry feed

DACF dry actual cubic feet

DIST distillate

DSCF dry standard cubic feet

 $\begin{array}{ccc} F & & \text{feet} \\ G & & \text{gram} \end{array}$ 

G/B-HP-H grams per brake horsepower-hour G/HP-H grams per horsepower-hour

G/O gas/oil GAL gallon

GAL/M gallons per minute GIGA giga-  $(10^9 prefix)$ 

GR grains H hour

HP horsepower

J joule
KG kilogram
KW kilowatt
L liter
LB pound

<u>Abbreviation</u> <u>Emission Limit Unit</u>

LT long ton M thousand  $(10^3)$ 

MI miles MIN minute

 $\begin{array}{ccc} MG/L & milligram per liter \\ MM & million \, (10^6) \\ MO & month \\ MW & megawatt \end{array}$ 

UG microgram (10<sup>-6</sup>)

N natural

NG nanogram (10<sup>-9</sup>)

OPAC opacity

PPM parts per million
PPH parts per hundred

% percent
% BY VOL % by volume
% BY WT % by weight
RDF refuse derived fuel

RESID residual

SB subbituminous SCF standard cubic feet

SCFD standard cubic feet per day
SCFH standard cubic feet per hour
SCFM standard cubic feet per minute

SEC second SQF square feet

T ton

T/D tons per day T/H tons per hour tons per year T/YR **TONNE** metric tonne **VOL** volume WKS weeks YD yard YR year

# Case-By-Case Basis for Pollutant Limit

RACT Reasonably Available Control Technology
BACT-PSD Prevention of Significant Deterioration
LAER Lowest Available Control Technology
MACT Maximum Achievable Control Technology
BART Best Achievable Retrofit Technology
BAT Best Available Technology (non-U.S. only)

N/A Not Applicable

# Other Applicable Requirements

NSPS New Source Performance Standards

NESHAPS National Emission Standards for Hazardous Air Pollutants

MACT Maximum Achievable Control Technology

SIP State Implementation Plan

N/A Not Applicable

Other Other requirement - not listed

# **Emission Type**

Point, Fugitive, or Area Source

# APPENDIX E RBLC STANDARD EMISSION LIMIT UNITS BY PROCESS TYPE CODE

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# **Appendix E --RBLC Standard Emission Units by Process Type Code**

Standard emission units have been established for the processes listed below. These units are required for reporting standardized emission limits in the RBLC data base for these processes. Standardization of emission units facilitates ranking of emission control requirements on a pollutant specific basis. For visible emissions (VE), percent (%) opacity has been established as the standardized unit for all processes

Clearingho	ouse		Required
Process Co	ode / Name or Description	<b>Pollutant</b>	<b>Emission Units</b>
ALL	All Processes with Emission Limits	Visible	% Opacity
	for Visible Emissions	Emissions	
11.110	Utility and Large Industrial Size	PM, PM10,	LB/MMBTU
11.120	Boilers/ Furnaces (>250 MMBTU/H)	PM2.5, SOx,	
11.210		NOx, CO	
11.220			
11.310			
	1	ı	1
12.110	Industrial-Size Boilers/Furnaces	PM, PM10,	LB/MMBTU
12.120	(> 100MMBTU/H and	PM2.5, SOx,	
12.210	<= 250 MMBTU/H)	NOx, CO	
12.220	,	,	
12.310			
13.110	Commercial/Institutional-Size	PM, PM10,	LB/MMBTU
13.120	Boilers/Furnaces	PM2.5, SOx,	
13.210	(<= 100 MMBTU/H)	NOx, CO	
13.220			
13.310			
		<u> </u>	
15.110	Large Combustion Turbines	NOx, CO	PPM @ 15% O <sub>2</sub>
15.190	(>25 MW)	_ ,	
15.210	, , , ,		
15.290			
i			

Clearinghou	ise		Required	
Process Code / Name or Description		<b>Pollutant</b>	Emission Units	
16.110 16.190 16.210 16.290	Small Combustion Turbine (<= 25 MW)	NOx, CO	PPM @ 15% O <sub>2</sub>	
17.110 17.130 17.210 17.230	Internal Combustion Engines	NOx, CO	G/B-HP-H	
21.100	Commencial/Industrial Calid Waste	CO HCI	DDMVD @70/ O2	
21.100	Commercial/Industrial Solid Waste Combustion	CO, HCL, SO2, & NOx	PPMVD @7% O2	
		PM, PM10, PM 2.5, CD, PB & HG	MG/DSCM @ 7% O2	
		Dioxins /	NG/DSCM TEQ	
21 200		Furans	@7% O2	
21.200	Hazardous Waste Incineration	AS, BE, CR, CD, PB, HG	Micro G/DSCM @7% O2	
		HCL, CL2, CO & HC	PPMV @7% O2	
		PM, PM10 & PM2.5	MG/DSCM @7% O2	
		Dioxins / Furans	NG/DSCM TEQ @7% O2	
21.300	Hospital/Medical/Infectious Waste Incineration	CO, NOx, SO2 & HCL	PPMVD @7% O2	
		PM, PM10, PM 2.5, CD, PB, HG	MG/DSCM @7% O2	
		Dioxins / Furans	NG/DSCM TEQ @7% O2	
21.400	Municipal Waste Combustion	PM, PM10, PM2.5, CD, PB, HG	MG/DSCM @7% O2	

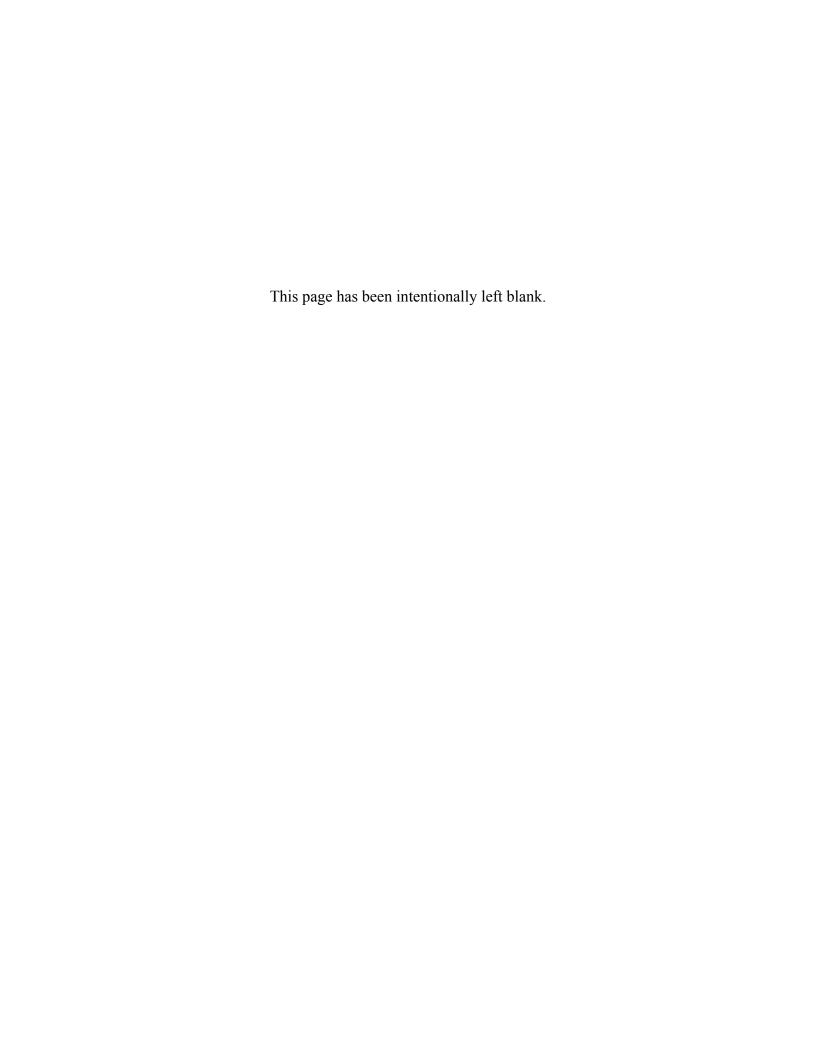
Clearingh	ouse		Required
Process Co	ode / Name or Description	<b>Pollutant</b>	<b>Emission Units</b>
		SO2, HCL, NOx, CO	PPMV @7% O2
		Dioxins / Furans	NG/DSCM @7% O2
21.500	Wastewater Treatment Sludge Incineration	PM, PM10 & PM2.5	LB/T of dry sludge input
		HG	G/24 HR Period
		_	
30.211	Kraft Pulp Mills - Recovery Furnaces/Boilers	PM, PM10 & PM2.5	GR/DSCF @ 8% O <sub>2</sub>
30.212	Kraft Pulp Mills - Smelt Dissolving Tanks	PM, PM10 & PM2.5	LB/T BLS
30.221	Kraft Pulp Mills - Batch Digesters	TRS	PPMVD @ 10% O <sub>2</sub>
30.231	Kraft Pulp Mills - Lime Kilns	PM, PM10 & PM2.5	GR/DSCF @ 10% O <sub>2</sub>
30.310	Plywood Dryers	HAP	LB/MSF (1000 FT <sup>2</sup> )
		Methanol, Formaldehyde	PPMVD
30.320	Plywood Presses	HAP	LB/MSF (1000 FT <sup>2</sup> )
		Methanol, Formaldehyde	PPMVD
30.520	Particle Board & Strand Board Presses	HAP	LB/MSF (1000 FT <sup>2</sup> )
		Methanol, Formaldehyde	PPMVD
30.530	Particle Board & Strand Board - Dryers	HAP	LB/ODT (Oven Dried Ton)
		Methanol, Formaldehyde	PPMVD
41.002	A 0 1:-1:T 1 C C C :	VOC	ID/CALACC
41.002	Auto & Light Truck Surface Coating	VOC	LB/GAL ACS
41.004	Can Surface Coating	VOC	LB/GAL ACS
41.007	Flexible Vinyl & Urethane Coating and Printing	VOC	LB/LB ink solids
41.008	Large Appliance Surface Coating	VOC	LB/GAL ACS
41.011	Metal Coil Surface Coating	VOC	LB/GAL ACS
41.012	Metal Furniture Surface Coating	VOC	LB/GAL ACS
41.015	Plastic Parts for Business Machines Surface Coating	VOC	LB/GAL ACS

Clearingho	ouse		Required	
Process Co	ode / Name or Description	<b>Pollutant</b>	<b>Emission Units</b>	
41.018	Pressure Sensitive Tape & Label Surface Coating	VOC	LB/LB ACS	
50.003	Petroleum Refining - Cracking	PM, PM10 & PM2.5, SOx CO	LB/1000 LB PPMV	
50.006	Petroleum Refining - Claus Sulfur Recovery Units	SOx, TRS, H <sub>2</sub> S	PPMV @ 0% Excess Air	
61.009	Phosphate Fertilizers Production	Total Fluoride	LB/T	
62.001	Ammonium Sulfate Production	PM, PM10 & PM2.5	LB/T ammonium sulfate	
62.014	Nitric Acid Plants	NOX	LB/T of Acid Produced (100% acid)	
62.015	Sulfuric Acid Plants	SO <sub>2</sub> & Sulfuric Acid Mist	LB/T	
65.001 - 65.999	Synthetic Fibers Production	VOC	LB/1000 LB solvent feed	
70.210	Grain Dryers	PM, PM10 & PM2.5	GR/DSCF	
70.230	Grain Loading & Handling	PM, PM10 & PM2.5	GR/DSCF	
70.290	Other Grain Handling	PM, PM10 & PM2.5	GR/DSCF	
		ī	<del>,                                      </del>	
81.210	Electric Arc Furnaces (EAF) used at: Integrated Iron & Steel Production & Mini Mills;	PM, PM10 & PM2.5	GR/DSCF	
81.310	Steel Foundries;			
81.510	Ferroalloy Production (Includes Stainless & Specialty Steels)			
82.111	Primary AL Furnaces & Pot Lines	Total	LB/T	
82.121	Secondary AL Furnaces	Fluorides Total	LB/T	
02.121	Secondary AL I unlaces	Fluorides	LD/1	
82.510	Lead Acid Battery Manufacturing (All Lead Emitting Operations)	Pb (Lead)	GR/DSCF	

Clearingh Process Co	ouse ode / Name or Description	Pollutant	Required Emission Units	
2100000	, 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
90.004	Hot-Mix Asphalt Processing	PM, PM10 & PM2.5	GR/DSCF	
90.011	Coal Handling/Processing/ Preparation/Cleaning	PM, PM10 & PM2.5	GR/DSCF	
90.016	Glass Manufacturing Furnace	PM, PM10 & PM2.5	LB/T	
90.019	Lime/Limestone Handling/Kilns/ Storage/Manufacturing.	PM, PM10 & PM2.5	LB/T	
90.021	Metallic Mineral/Ore Processing	PM, PM10 & PM2.5	GR/DSCF	
90.024	Non-metallic Mineral Processing	PM, PM10 & PM2.5	GR/DSCF	
90.026	Phosphate Rock Processing	PM, PM10 & PM2.5	LB/T	
90.028	Portland Cement Plants - kiln, in-line raw mill and kiln, clinker cooler	PM, PM10 & PM2.5	LB/T	
90.033	Wool Fiberglass Manufacturing	PM, PM10 & PM2.5	LB/T glass pulled	
90.034	Asphalt Roofing Products Manufacturing	PM, PM10 & PM2.5	LB/1000 LB	
99.015	Rubber Tire Manufacturing Industry -Tread End Cementing, Water-Based Inside Green Tire Spray, & Water- Based Outside Green Tire Spray	VOC	G/TIRE/MO	
	Bead Cementing	VOC	G/Bead/MO	
	Organic Green Tire Spray, Michelin A Operations, Michelin B Operations Michelin C Operations, Sidewall Cementing, & Undertread Cementing	VOC	% Reduction	

# APPENDIX F EXAMPLES OF RBLC STANDARD REPORTS

Process Index Report
Process Type Summary Report
Comprehensive Report
Free Form Report (Customizable & Standard)
Export/Import Report



Report Date: 12/06/2004 INDEX OF CONTROL TECHNOLOGIES DETERMINATIONS

NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.

Company Name	RBLC ID	Permit Date (Est/Act)	Process Type	Process De
CAROLINA POWER				COMBUSTION TURE
& LIG	NC-0059	04/11/1996 ACT	15.190	FUEL OIL COMBUSTION TURE
FREIGHTLINER			15.110	NAT GAS ONE WHEEL DRY-
CORPORA	NC-0060	07/07/1995 ACT	41.002	BOOTH
			41.002	PRETREATMENT L
			41.002	DRY-FILTER CAUI BOOTH
			41.002	WATERWASH TYPE BOOTH
			41.002	DRY-FILTER UNDI
			41.002	CAB/SLEEPER TOI WATERWASH PAINT DRY-FILTER TYPI
			41.002	PAINT SPRAY BOO
			41.002	PAINT MIX ROOM
			41.002	OFFLINE TOUCH-U
			41.002	TWO CHASSIS LIN
			41.002	TWO CAB TOP-COP
			41.002	BOOTH
FREIGHTLINER			41.002	ONE WAXING BOOT
CORPORA	NC-0061	11/13/1996 ACT	41.002	DRYING OVEN
			41.002	DRY-FILTER WAX
			41.002	PRIME LINE FLAS
			41.002	WASH PAINT SPRA
			41.002	TOPCOAT CURE OF
			41.002	ELECTRODEPOSITI
			41.002	SPOT PRIME AND SPRAY BOOTH
			41.002	SPOT PRIME AND CURE OVEN
			41.002	13 DRY FILTER I BOOTHS
			41.002	PLASTICS BOOTH WIPING
			41.002	PLASTICS FLASH-
			41.002	PLASTICS LINE (

 $\begin{array}{c} \text{MID-COAT PRIME} \\ \text{BOOTH} \end{array}$ 

41.002 MID-COAT PRIME

Report Date: 12/06/2004 INDEX OF CONTROL TECHNOLOGIES DETERMINATION
BY PROCESS

#### NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.

Facility
Name
RBLC
Date
Type
Contact

Permit
Agency
Name of
Telephone

Process Type: 15.110 Natural Gas

CAROLINA

POWER & NC-0059 04/11/1996NORTH CAROLINA

LIGHT ACT DIV O

Process Type: 15.190 Liquid Fuel

CAROLINA
POWER & NC-0059

04/11/1996NORTH CAROLINA

LIGHT ACT DIV O

Process Type: 41.002 Automobiles and Trucks Surface Coating (OEM)

FREIGHTLINER 07/07/1995NORTH CAROLINA

CORPORATION NC-0060

- CLE ACT DIV O

Process Type: 41.002 Automobiles and Trucks Surface Coating (OEM)

FREIGHTLINER
11/13/1996NORTH CAROLINA

CORPORATION NC-0061 ACT DIV O

Format RBLC Report Page 1 of 8

### COMPREHENSIVE REPORT Report Date: 12/06/2004

**Facility Information** 

10/08/2002 NC-0059 (final) **RBLC ID: Date Determination** 

**CAROLINA POWER & LIGHT** 1812 **Corporate/Company Name: Permit Number:** 

CAROLINA POWER & LIGHT 04/11/1996 (actual) **Facility Name: Permit Date:** 110000496552 **Facility Contact:** FRS Number:

4911 **Facility Description:** SIC Code:

A: New/Greenfield Facility 221111, 221112, **Permit Type: NAICS:** 

221113, 221119, 221121, 221122

Last Updated:

4 **EPA Region:** 

**WAYNE Faciliy County:** 

NC **Facility State:** 

27530-9371 **Facility ZIP Code:** 

NORTH CAROLINA DIV OF ENV MGMT (Agency Name) **Permit Issued By:** 

Mr. Fred Langenbach (Agency Contact) (919)715-6242

**EDWARD MARTIN Other Agency Contact Info:** 

NC

(919) 715-6283

**Other Permitting** 

H.F. LEE STEAM ELECTRIC PLANT

**Information:** 

#### Process/Pollutant Information

COMBUSTION TURBINE, 4 EACH, FUEL OIL **PROCESS** 

NAME:

**Process Type:** 15.190 (Liquid Fuel)

**Primary Fuel:** NO.2 FUEL OIL/NAT GS

Throughput: 1907.60 MMBTU/H

**Process Notes:** (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

#### **POLLUTANT**

Format RBLC Report Page 2 of 8

NAME: NOX, OIL CAS Number: 10102

**Emission Limit 1:** 512.3000 LB/H

**Emission Limit 2:** 0.2690 LB/MMBTU

Standard Emission: 58.0000 PPM @ 15% O2

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis:** BACT-PSD

Other Applicable Requirements:

Control Method: (P) WATER INJECTION; FUEL SPEC: 0.04% N FUEL OIL

Est. % Efficiency: 0
Compliance Verified: Y

**Pollutant/Compliance Notes:** 

POLLUTANT CAS Number: 7446-09-5

NAME: SO2, OIL

**Emission Limit 1:** 308.5000 LB/H

Emission Limit 2: 162.0000 LB/MMBTU

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) FUEL SPEC: 0.15% S FUEL OIL

Est. % Efficiency: 0
Compliance Verified: Y

**Pollutant/Compliance Notes:** 

POLLUTANT CAS Number: 630-08-0

**NAME:** CO, OIL

**Emission Limit 1:** 81.0000 LB/H

**Emission Limit 2:** 0.0420 LB/MMBTU **Standard Emission:** NOT AVAILABLE

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis:** BACT-PSD

Format RBLC Report

Page 3 of 8

Other Applicable Requirements:

Control Method: (P) COMBUSTION CONTROL

Est. % Efficiency: 0
Compliance Verified: Y

**Pollutant/Compliance Notes:** 

POLLUTANT CAS Number: VOC

NAME: VOC, OIL

**Emission Limit 1:** 7.0000 LB/H

**Emission Limit 2:** 0.0037 LB/MMBTU

**Standard Emission:** 0

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) COMBUSTION CONTROL

Est. % Efficiency: 0
Compliance Verified: Y

**Pollutant/Compliance Notes:** 

POLLUTANT CAS Number: 7664-93-9

NAME: H2SO4

**Emission Limit 1:** 17.9500 LB/H

**Emission Limit 2:** 0.0094 LB/MMBTU

**Standard Emission:** 0

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis:** BACT-PSD

Other Applicable Requirements:

Control Method: (P) COMBUSTION CONTROL

Est. % Efficiency: 0
Compliance Verified: Y

**Pollutant/Compliance Notes:** 

Format RBLC Report Page 4 of 8

POLLUTANT CAS Number: PM

NAME: PM

Emission Limit 1: 17.0000 LB/H

**Emission Limit 2:** 0.0089 LB/MMBTU

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis:** BACT-PSD

Other Applicable Requirements:

**Control Method:** (P) COMBUSTION CONTROL

Est. % Efficiency:

Compliance Verified: Y

**Pollutant/Compliance Notes:** 

POLLUTANT CAS Number: PM

NAME: PM10

Emission Limit 1: 17.0000 LB/H

**Emission Limit 2:** 0.0089 LB/MMBTU

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis:** BACT-PSD

Other Applicable Requirements:

Control Method: (P) COMBUSTION CONTROL

Est. % Efficiency:

**Compliance Verified:** Y

**Pollutant/Compliance Notes:** 

POLLUTANT CAS Number: PM

NAME: PM10

**Emission Limit 1:** 9.0000 LB/H

Emission Limit 2: 0.0048 LB/MMBTU

**Standard Emission:** 

Format RBLC Report Page 5 of 8

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis:** BACT-PSD

Other Applicable Requirements:

Control Method: (P) COMBUSTION CONTROL

Est. % Efficiency:

**Compliance Verified:** Y

**Pollutant/Compliance Notes:** 

#### Process/Pollutant Information

**PROCESS** COMBUSTION TURBINE, 4 EACH, NAT GAS

NAME:

Process Type: 15.110 (Natural Gas)
Primary Fuel: NATURAL GAS
Throughput: 1907.60 MMBTU/H

Process Notes: (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

POLLUTANT CAS Number: 10102

NAME: NOX

Emission Limit 1: 158.0000 LB/H
Emission Limit 2: 0.0840 LB/MMBTU
Standard Emission: 25.0000 PPM @ 15% O2

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis:** BACT-PSD

Other Applicable Requirements:

**Control Method:** (P) WATER INJECTION

Est. % Efficiency:

**Compliance Verified:** Y

**Pollutant/Compliance Notes:** 

POLLUTANT CAS Number: 7446-09-5

NAME: SO2

Format RBLC Report Page 6 of 8

**Emission Limit 1:** 1.0000 LB/H

5.3000 E-04 LB/MMBTU **Emission Limit 2:** 

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**Basis: BACT-PSD** 

Other Applicable **Requirements:** 

**Control Method:** (P) COMBUSTION CONTROL

Est. % Efficiency:

Y **Compliance Verified:** 

**Pollutant/Compliance Notes:** 

**POLLUTANT CAS Number:** 630-08-0

NAME: CO

**Emission Limit 1:** 80.0000 LB/H

**Emission Limit 2:** 0.0420 LB/MMBTU

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**BACT-PSD Basis:** 

Other Applicable **Requirements:** 

**Control Method:** (P) COMBUSTION CONTROL

Est. % Efficiency:

**Compliance Verified:** Y

**Pollutant/Compliance Notes:** 

**POLLUTANT** CAS Number: VOC

NAME: VOC

**Emission Limit 1:** 2.8000 LB/H

**Emission Limit 2:** 0.0015 LB/MMBTU

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**BACT-PSD Basis:** 

Other Applicable

Format RBLC Report Page 7 of 8

**Requirements:** 

**Control Method:** (P) COMBUSTION CONTROL

Est. % Efficiency:

**Compliance Verified:** Y

**Pollutant/Compliance Notes:** 

**POLLUTANT** CAS Number: PM

NAME: PM

**Emission Limit 1:** 9.0000 LB/H

0.0048 LB/MMBTU **Emission Limit 2:** 

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**BACT-PSD Basis:** 

Other Applicable **Requirements:** 

**Control Method:** (P) COMBUSTION CONTROL

Est. % Efficiency:

**Compliance Verified:** Y

**Pollutant/Compliance Notes:** 

**POLLUTANT CAS Number:** 7664-93-9

NAME: H2SO4

17.9500 LB/H **Emission Limit 1:** 

**Emission Limit 2:** 0.0094 LB/MMBTU

**Standard Emission:** 

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

**BACT-PSD Basis:** 

Other Applicable

**Requirements:** 

**Control Method:** (P) COMBUSTION CONTROL

Est. % Efficiency:

**Compliance Verified:** Y

**Pollutant/Compliance Notes:** 

Format RBLC Report Page 1 of 10

NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.

Report Date: 12/06/2004 Control Technology Determinations (Freeform)

## FACILITY INFORMATION: CAROLINA POWER & LIGHT

RBLC Id: NC-0059

\*Corporate/Company CAROLINA POWER & LIGHT

Name:

\*Facility Name: CAROLINA POWER & LIGHT

Facility County: WAYNE

Facility Contact Name:
Facility Contact Phone:
Facility Contact Email:
EPA Region:
Agency Code:

VC001

Agency Contact: Mr. Fred Langenbach

Agency Phone: (919)715-6242

Agency Email:

Other Agency Contact EDWARD MARTIN

Info: NC

(919) 715-6283

\*Permit number: 1812 \*SIC: 4911

NAICS: 221111, 221112, 221113, 221119, 221121, 221122

FRS #: 110000496552 Application Accepted 12/19/1994 ACT

Date:

Permit Date: 04/11/1996 ACT Date determination 08/19/1996

entered into RBLC:

Date determination last 10/08/2002

updated:

Permit Type: A: NEW/GREENFIELD FACILITY

Facility Description:

Other Permitting H.F. LEE STEAM ELECTRIC PLANT

Information:

#### PROCESS INFORMATION: CAROLINA POWER & LIGHT

\*Process: COMBUSTION TURBINE, 4 EACH, FUEL OIL

Primary Fuel: NO.2 FUEL OIL/NAT GS

Throughput: 1907.60 Throughput Unit: MMBTU/H

Process Notes: (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED

PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

POLLUTANT INFORMATION : CAROLINA POWER & LIGHT - COMBUSTION TURBINE, 4 EACH, FUEL OIL

\*Pollutant Name NOX, OIL \*CAS Number: 10102 \*Control Method Code: P

\*Control Method WATER INJECTION; FUEL SPEC: 0.04% N FUEL OIL

Description:

Emission Limit 1: 512.3000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.2690 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: 58.0000

Standard Emission Limit PPM @ 15% O2

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency Yes

(Y/N):

Dollar Year Used In Cost 1994

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name SO2, OIL \*CAS Number: 7446-09-5

\*Control Method Code: 1

\*Control Method FUEL SPEC: 0.15% S FUEL OIL

Description:

Emission Limit 1: 308.5000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 162.0000 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: 0 Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency Yes

(Y/N):

Dollar Year Used In Cost 1994

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name CO, OIL \*CAS Number: 630-08-0

\*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 81.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0420 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg. Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. NOT AVAILABLE

Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name VOC, OIL

\*CAS Number: VOC

\*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 7.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0037 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: 0

Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name H2SO4 \*CAS Number: 7664-93-9

\*Control Method Code: F

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 17.9500 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0094 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: 0 Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency 0

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name PM \*CAS Number: PM \*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 17.0000 Emission Limit 1 Unit: LB/H Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0089

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name PM10 \*CAS Number: PM \*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 17.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0089

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name PM10 \*CAS Number: PM \*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 9.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0048 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg. Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

#### PROCESS INFORMATION: CAROLINA POWER & LIGHT

\*Process: COMBUSTION TURBINE, 4 EACH, NAT GAS

Primary Fuel: NATURAL GAS

Throughput: 1907.60 Throughput Unit: MMBTU/H

Process Notes: (4) GE PG 7231 FA SIMPLE CYCLE. A SEPARATELY LISTED

PROCESS SHOWS EMISSION LIMITS WHEN FIRING NATURAL GAS.

# POLLUTANT INFORMATION : CAROLINA POWER & LIGHT - COMBUSTION TURBINE, 4 EACH, NAT GAS

\*Pollutant Name NOX \*CAS Number: 10102 \*Control Method Code: P

\*Control Method WATER INJECTION

Description:

Emission Limit 1: 158.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0840 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: 25.0000

Standard Emission Limit PPM @ 15% O2

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name SO2 \*CAS Number: 7446-09-5

\*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 1.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 5.3000

Emission Limit 2 Unit: E-04 LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name CO

\*CAS Number: 630-08-0

\*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 80.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0420 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg. Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name VOC \*CAS Number: VOC \*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 2.8000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0015 Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name PM \*CAS Number: PM \*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 9.0000 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0048

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg. Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg. Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

\*Pollutant Name H2SO4 \*CAS Number: 7664-93-9

\*Control Method Code: P

\*Control Method COMBUSTION CONTROL

Description:

Emission Limit 1: 17.9500 Emission Limit 1 Unit: LB/H

Emission Limit 1 Avg.

Time/Condition:

Emission Limit 2: 0.0094

Emission Limit 2 Unit: LB/MMBTU

Emission Limit 2 Avg.

Time/Condition:

Standard Emission Limit: Standard Emission Limit

Unit:

Standard Limit Avg.

Time/Condition:

\*Basis: BACT-PSD

\*Estimated Efficiency

(%):

Cost Effectiveness:

Cost Verified by Agency No

(Y/N):

Dollar Year Used In Cost

Estimates:

Pollutant/Compliance

Notes:

#### NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.

"RBLCID","FACILITYNAME","REGION","AGENCYNAME","AGENCYCONTACT","AGENCYPHONE","PERMITNUM","SIC","FACILITYREGISTRYSYSTEMNUMBER","PERMITDATE","DATEI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059", "CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059", "CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059", "CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0061", "FREIGHTLINER CORPORATION - MT. 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CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "GLASS", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "GLASS", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "GLASS", "08618", "09/11/2000", "01/28/2002", "GLASS", "08/11/2000", "01/28/2002", "GLASS", "08/11/2000", "01/28/2002", "GLASS", "08/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "NC-0063","CARDINAL FG FLAT GLASS","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08618","3211","","10/29/1998","09/11/2000","01/28/2002","ANNE. "NC-0063", "CARDINAL FG FLAT GLASS", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "CULLI "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064", "NUCOR STEEL", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08680", "3312", "", "04/20/1999", "09/12/2000", "06/24/2002", "STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064", "NUCOR STEEL", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08680", "3312", "", "04/20/1999", "09/12/2000", "06/24/2002", "STEEL PLANT, REH "NC-0065","AMERISTEEL CORP.","4","MECKLENBURG CO DEPT OF ENV PROT, NC","Ms. Donna Cavaliere","(704)336-5500","19-99V-567","3312","","04/29/1999","10/26/2000","10/08/2002","STE "NC-0066","CORN PRODUCTS INTERNATIONAL","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00732-TV-4","2046","","07/15/1997","02/20/20011","08/21. "NC-0066","CORN PRODUCTS INTERNATIONAL","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00732-TV-4","2046","","07/15/1997","02/20/2001","08/21. "NC-0066","CORN PRODUCTS INTERNATIONAL","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00732-TV-4","2046","","07/15/1997","02/20/2001","08/21.

#### NOTE: Draft determinations are marked with a " \* " beside the RBLC ID.

"RBLCID","FACILITYNAME","REGION","AGENCYNAME","AGENCYCONTACT","AGENCYPHONE","PERMITNUM","SIC","FACILITYREGISTRYSYSTEMNUMBER","PERMITDATE","DATEI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059", "CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059", "CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059", "CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0059","CAROLINA POWER & LIGHT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1812","4911","","04/11/1996","08/19/1996","10/08/2002","COMBI "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0060", "FREIGHTLINER CORPORATION - CLEVELAND", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "4625R7", "3711", "", "07/07/1995", "05/27/1997" "NC-0061", "FREIGHTLINER CORPORATION - MT. 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Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "GLASS", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "GLASS", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "GLASS", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "GLASS", "08618", "09/11/2000", "01/28/2002", "GLASS", "08/11/2000", "01/28/2002", "GLASS", "08/11/2000", "01/28/2002", "GLASS", "08/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", "01/28/2002", "09/11/2000", 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"NC-0063", "CARDINAL FG FLAT GLASS", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08618", "3211", "", "10/29/1998", "09/11/2000", "01/28/2002", "CULLI "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064", "NUCOR STEEL", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08680", "3312", "", "04/20/1999", "09/12/2000", "06/24/2002", "STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, MEL "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064","NUCOR STEEL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08680","3312","","04/20/1999","09/12/2000","06/24/2002","STEEL PLANT, REH "NC-0064", "NUCOR STEEL", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08680", "3312", "", "04/20/1999", "09/12/2000", "06/24/2002", "STEEL PLANT, REH "NC-0065","AMERISTEEL CORP.","4","MECKLENBURG CO DEPT OF ENV PROT, NC","Ms. Donna Cavaliere","(704)336-5500","19-99V-567","3312","","04/29/1999","10/26/2000","10/08/2002","STE "NC-0066","CORN PRODUCTS INTERNATIONAL","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00732-TV-4","2046","","07/15/1997","02/20/20011","08/21. "NC-0066","CORN PRODUCTS INTERNATIONAL","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00732-TV-4","2046","","07/15/1997","02/20/2001","08/21. "NC-0066","CORN PRODUCTS INTERNATIONAL","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00732-TV-4","2046","","07/15/1997","02/20/2001","08/21.

"\*NC-0067","MOUNTAIN SIDE POWER PLANT","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","123-23-444","4911","","04/11/1996","06/01/2001","07/09/20 "NC-0068", "RICHMOND COUNTY COMBUSTION TURBINE FACILITY", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08759R00", "4911", "", "11/05/1999" "NC-0068","RICHMOND COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08759R00","4911","","11/05/1999" "NC-0068", "RICHMOND COUNTY COMBUSTION TURBINE FACILITY", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08759R00", "4911", "", "11/05/1999" "NC-0068", "RICHMOND COUNTY COMBUSTION TURBINE FACILITY", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08759R00", "4911", "", "11/05/1999" "NC-0068","RICHMOND COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred 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COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08758R00","4911","","11/05/1999","05 "NC-0069","ROWAN COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08758R00","4911","","11/05/1999","05 "NC-0069","ROWAN COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08758R00","4911","","11/05/1999","05 "NC-0070","WEYERHAEUSER - PLYMOUTH PULP AND PAPER MILL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","04291R19","2611","","11/25/1998", "NC-0070","WEYERHAEUSER - PLYMOUTH PULP AND PAPER MILL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","04291R19","2611","","11/25/1998", "NC-0070","WEYERHAEUSER - PLYMOUTH PULP AND PAPER MILL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","04291R19","2611","","11/25/1998", "NC-0070","WEYERHAEUSER - 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- GREENVILLE SAWMILL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","06270R10","2421","","07/13/1999","02/19/2004", "NC-0073", "BRIDGESTONE FIRESTONE", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "1660R39", "3011", """, "06/28/2001", "02/23/2004", "03/12/2004", "BOII "NC-0073","BRIDGESTONE FIRESTONE","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1660R39","3011","","06/28/2001","02/23/2004","03/12/2004","BOII "NC-0074","BRIDGESTONE/FIRESTONE NORTH AMERICAN TIRE","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","01660T42","3011","","01/24/2003","02 "NC-0074", "BRIDGESTONE/FIRESTONE NORTH AMERICAN TIRE", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "01660T42", "3011", """, "01/24/2003", "02 (1979)715-6242", "01660T42", "3011", "", "01/24/2003", "02 (1979)715-6242", "01660T42", "3011", "01/24/2003", "02 (1979)715-6242", "01660T42", 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Langenbach","(919)715-6242","04379T21","9711","","08/20/2001","02/27/2004","03/12/2004","IC ENGINES, DIE: "NC-0075","FORT BRAGG","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","04379T21","9711","","08/20/2001","02/27/2004","03/12/2004","IC ENGINES, DIE: "NC-0075","FORT BRAGG","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","04379T21","9711","","08/20/2001","02/27/2004","03/12/2004","IC ENGINES, DIE: "NC-0076", "ROCKINGHAM POWER, LLC", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08731R02", "4911", "", "01/19/2001", "02/27/2004", "03/12/2004", "TU "NC-0077","CAROLINA STALITE COMPANY - GOLD HILL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","03059T24","3281","","12/20/2001","03/01/2004 "NC-0077", "CAROLINA STALITE COMPANY - GOLD HILL", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "03059T24", "3281", "", "12/20/2001", "03/01/2004", "0 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Langenbach","(919)715-6242","08759R00","4911","","11/05/1999" "NC-0068","RICHMOND COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08759R00","4911","","11/05/1999" "NC-0068","RICHMOND COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08759R00","4911","","11/05/1999" "NC-0068", "RICHMOND COUNTY COMBUSTION TURBINE FACILITY", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08759R00", "4911", "", "11/05/1999" "NC-0068","RICHMOND COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","08759R00","4911","","11/05/1999" "NC-0068", "RICHMOND COUNTY COMBUSTION TURBINE FACILITY", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08759R00", "4911", "", "11/05/1999" "NC-0068","RICHMOND COUNTY COMBUSTION TURBINE FACILITY","4","NORTH CAROLINA DIV OF ENV 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- GREENVILLE SAWMILL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","06270R10","2421","","07/13/1999","02/19/2004", "NC-0073", "BRIDGESTONE FIRESTONE", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "1660R39", "3011", """, "06/28/2001", "02/23/2004", "03/12/2004", "BOII "NC-0073","BRIDGESTONE FIRESTONE","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","1660R39","3011","","06/28/2001","02/23/2004","03/12/2004","BOII "NC-0074", "BRIDGESTONE/FIRESTONE NORTH AMERICAN TIRE", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "01660T42", "3011", "", "01/24/2003", "02 "NC-0074", "BRIDGESTONE/FIRESTONE NORTH AMERICAN TIRE", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "01660T42", "3011", """, "01/24/2003", "02 (1979)715-6242", "01660T42", "3011", "", "01/24/2003", "02 (1979)715-6242", "01660T42", "3011", "01/24/2003", "02 (1979)715-6242", 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Langenbach","(919)715-6242","04379T21","9711","","08/20/2001","02/27/2004","03/12/2004","IC ENGINES, DIE: "NC-0075","FORT BRAGG","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","04379T21","9711","","08/20/2001","02/27/2004","03/12/2004","IC ENGINES, DIE: "NC-0075","FORT BRAGG","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","04379T21","9711","","08/20/2001","02/27/2004","03/12/2004","IC ENGINES, DIE: "NC-0076", "ROCKINGHAM POWER, LLC", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "08731R02", "4911", "", "01/19/2001", "02/27/2004", "03/12/2004", "TU "NC-0077","CAROLINA STALITE COMPANY - GOLD HILL","4","NORTH CAROLINA DIV OF ENV MGMT","Mr. Fred Langenbach","(919)715-6242","03059T24","3281","","12/20/2001","03/01/2004 "NC-0077", "CAROLINA STALITE COMPANY - GOLD HILL", "4", "NORTH CAROLINA DIV OF ENV MGMT", "Mr. Fred Langenbach", "(919)715-6242", "03059T24", "3281", "", "12/20/2001", "03/01/2004", "0 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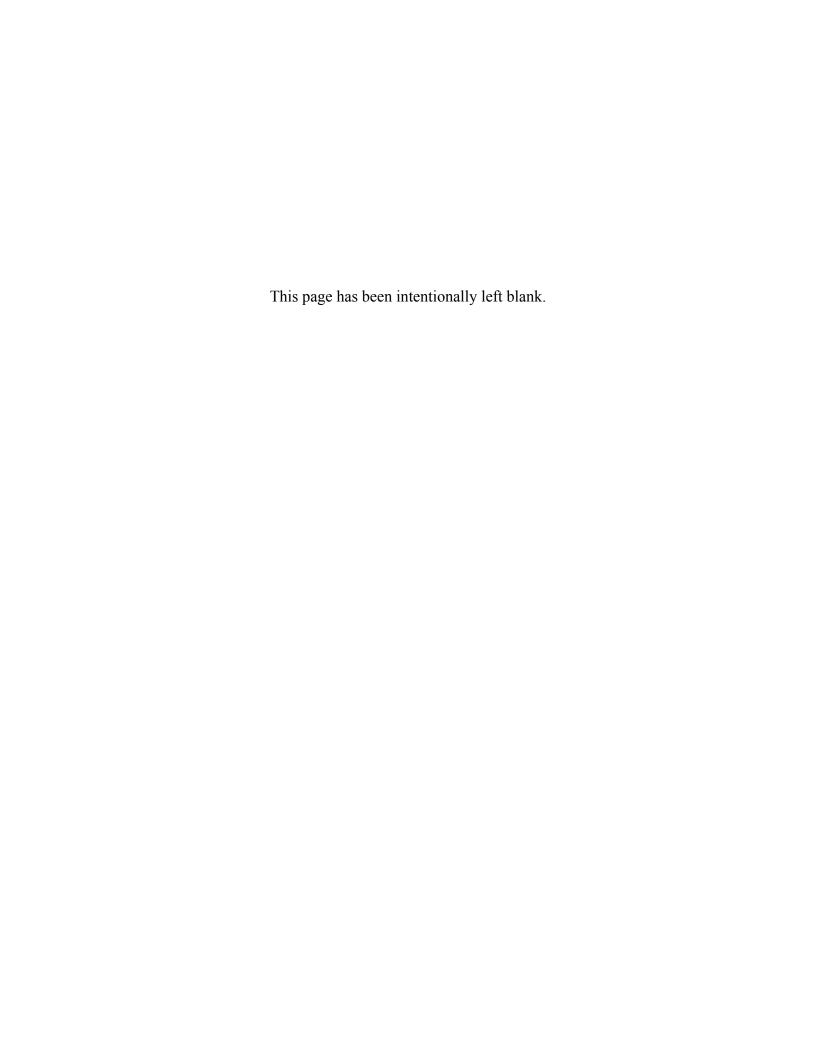
"\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","IC ENC "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","COOLI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","COOLI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101", "FORSYTH ENERGY PLANT", "4", "FORSYTH COUNTY ENV AFFAIRS DEPT, NC", "Mr. Peter Lloyd", "(336)727-8060", "00986", "4911", "", "01/23/2004", "08/31/2004", "09/17/2004", "TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","08/31/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI "\*NC-0101","FORSYTH ENERGY PLANT","4","FORSYTH COUNTY ENV AFFAIRS DEPT, NC","Mr. Peter Lloyd","(336)727-8060","00986","4911","","01/23/2004","08/31/2004","09/17/2004","TURBI

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### **APPENDIX G**

# EXAMPLES OF FEDERAL/STATE REGULATION STANDARD REPORTS

Comprehensive Report Free Form Report (Customizable & Standard)



#### DETAILED SOURCE LISTING Report Date: 10/05/2004

#### **General Information**

RBLC ID: RUS-0014 Date Last Updated: 10/04/1994

Affected Facility: STATIONARY GAS TURBINES Proposal: 10/03/1977 (42 FR

53782)

CFR Citation: 40 CFR PART 60 SUBPART GG Promulgation: 09/10/1979 (44 FR

52792)

Basis: NSPS SIC Code: 3511

**Rule Status:** IN EFFECT

Notes: BID DOCUMENTS: (1) EPA-450/2-77-017A - STANDARDS SUPPORT AND ENVIRONMENTAL IMPACT STATEMENT.

VOLUME I: PROPOSED STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES. (1977) (2) EPA-450/2-77-017B - STANDARDS SUPPORT AND ENVIRONMENTAL IMPACT STATEMENT. VOLUME II:

PROMULGATED STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES. (1979)

#### Process/Pollutant Information

PROCESS: TURBINE, GAS
Process Type(s): 15.004 ()
SCC Code: 20200201

**Throughput:** 0 > 10 & < 100 MMBTU/H

**Process Notes:** 

**POLLUTANT:** SO2 **CAS No.:** 7446-09-5

 Emission Limit 1:
 150 PPM @ 15% O2
 Basis: NSPS

 Emission Limit 2:
 0 FUEL <0.8% SULFUR</td>
 % Efficiency: 0

Control Method: LOW SULFUR FUEL

**Pollutant Notes:** 

POLLUTANT: NOX CAS No.:

Emission Limit 1: 150 PPM @ 15% O2 Basis: NSPS

Emission Limit 2: 0 % Efficiency: 0

Control Method: DRY CONTROL TECHNIQUES: OPERATIONAL AND DESIGN MODIFICATIONS

**Pollutant Notes:** 

#### Process/Pollutant Information

PROCESS: TURBINE, GAS
Process Type(s): 15.004 ()
SCC Code: 20200201

**Throughput:** 0 > 100 MMBTU/H

Process Notes: CONTROL COSTS FOR INDUSTRIAL TURBINE OPERATING 2,000 HR ANNUALLY (LARGE FACILITY, 4000 HP)

**POLLUTANT:** SO2 **CAS No.:** 7446-09-5

 Emission Limit 1:
 150 PPM @ 15% O2
 Basis: NSPS

 Emission Limit 2:
 0 FUEL <0.8% SULFUR</td>
 % Efficiency: 0

Control Method: LOW SULFUR FUEL

Pollutant Notes:

POLLUTANT: NOX CAS No.:

 Emission Limit 1:
 75 PPM @ 15% O2
 Basis: NSPS

 Emission Limit 2:
 0
 % Efficiency: 0

Control Method: WATER OR STEAM INJECTION

**Pollutant Notes:** 

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#### Process/Pollutant Information

**PROCESS:** TURBINE, GAS \*

**Process Type(s):** 15.004 () **SCC Code:** 20200201

**Throughput:** 0 > 100 MMBTU/H

Process Notes: USED IN OIL/GAS PRODUCTION OR TRANSPORTATION NOT IN MSA

**POLLUTANT: SO2 CAS No.:** 7446-09-5

 Emission Limit 1:
 150 PPM @ 15% O2
 Basis: NSPS

 Emission Limit 2:
 0 FUEL < 0.8% SULFUR</td>
 % Efficiency: 0

Control Method: LOW SULFUR FUEL

**Pollutant Notes:** 

POLLUTANT: NOX CAS No.:

Emission Limit 1:150 PPM @ 15% O2Basis: NSPSEmission Limit 2:0% Efficiency: 0Control Method:DRY CONTROL TECHNIQUES: OPERATIONAL AND DESIGN MODIFICATIONS

**Pollutant Notes:** 

#### **General Information**

RBLC ID: RUS-0246 Date Last Updated: 01/21/2003

Affected Facility: STATIONARY COMBUSTION TURBINES Proposal: 01/14/2003 (68 FR

1888)

CFR Citation: 40 CFR PART 63 SUBPART YYYY Promulgation: ()

Basis: MACT SIC Code: 4911

Rule Status: PROPOSED

Notes: RULE APPLIES TO STATIONARY COMBUSTION TURBINES LOCATED AT A MAJOR SOURCE OF HAP. THE RULE

DOES NOT COVER DUCT BURNERS AND TEST CELLS/STANDS. ADDITIONAL SIC CODES: 4922, 1311, 1321 AND 4931.

NAICS CODES: 2211, 486210, 211111, 211112, AND 221.

#### Process/Pollutant Information

**PROCESS:** DIFFUSION FLAME STATIONARY COMB. TURBINE EXISTING

Process Type(s): 15.000 (Large Combustion Turbines (> 25 MW))

SCC Code:

**Throughput:** 1 MW

**Process Notes:** TURBINE THROUGHPUT > 1 MW. THIS PROCESS HAS NO EMISSION LIMITS.

#### Process/Pollutant Information

**PROCESS:** LEAN PREMIX STATIONARY COMB. TURBINE (EXISTING)

**Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))

**SCC Code:** 

Throughput: 1 MW

**Process Notes:** TURBINE THROUGHPUT > 1 MW.

POLLUTANT: CO CAS No.: 630-08-0

Emission Limit 1: 95 % REDUCTION Basis: MACT
Emission Limit 2: % Efficiency: 95

Control Method: OXIDATION CATALYST

Pollutant Notes: THIS EMISSION LIMIT APPLIES IF YOU HAVE AN OXIDATION CATALYST CONTROL

DEVICE.

POLLUTANT: FORMALDEHYDE CAS No.: 50000

Emission Limit 1: 43 PPBVD @ 15% O2 Basis: MACT Emission Limit 2: % Efficiency:

Control Method: OTHER CONTROLS THAN OXIDATION CATALYST

**Pollutant Notes:** 

#### Process/Pollutant Information

**PROCESS:** STATIONARY COMBUSTION TURBINE (NEW) **Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))

**SCC Code:** 

**Throughput:** 1 MW

**Process Notes:** TURBINE THROUGHPUT > 1 MW.

POLLUTANT: CO CAS No.: 630-08-0

Emission Limit 1: 95 % REDUCTION Basis: MACT
Emission Limit 2: % Efficiency: 95

Control Method: OXIDATION CATALYST

Pollutant Notes: THIS EMISSION LIMIT APPLIES IF YOU HAVE AN OXIDATION CATALYST CONTROL

DEVICE.

POLLUTANT: FORMALDEHYDE CAS No.: 50000

**Emission Limit 1:** 43 PPBVD @ 15% O2 **Basis:** MACT **Emission Limit 2:** % Efficiency:

Control Method: OTHER CONTROLS THAN OXIDATION CATALYST.

**Pollutant Notes:** 

#### Process/Pollutant Information

PROCESS: EMERGENCY, LIMITED USE OR LANDFILL/DIGESTER GAS CT

Process Type(s): 15.000 (Large Combustion Turbines (> 25 MW))

**SCC Code:** 

**Throughput:** 0

Process Notes: NO EMISSION LIMITS. INITIAL NOTIFICATION REQUIREMENTS ONLY.

#### Process/Pollutant Information

**PROCESS:** STATIONARY COMBUSTION TURBINE < 1 MW **Process Type(s):** 15.000 (Large Combustion Turbines (> 25 MW))

**SCC Code:** 

Throughput: 1 MW

 $\label{eq:process_notes:} \textbf{Process_Notes:} \qquad \text{TURBINE THROUGHPUT} \le 1 \text{ MW. NO EMISSION LIMITS.}$ 

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Report Date: 12/06/2004 Regulations (Freeform)

RBLC ID: RUS-0107

Affected

PETROLEUM REFINERIES

Facility: Basis:

**MACT** 

State:

US

EPA Region:

Agency Name:

**EPA REGION I** 

Agency

Clean Air Technology Center

Contact:

Agency

(919) 541-0800

Phone:

CFR Citation: 40 CFR PART 63 SUBPART CC

Rule Status:

IN EFFECT

Entry Date:

01/26/1995

Last Update: 04/01/1996

SIC:

2911

BID:

**SEE NOTES** 

BID Title:

**SEE NOTES** 

On-Line

PETROFAC.WPF,PETROPRE.WPF,PETRORUL.ZIP,BID\*.ZIP IN

Location:

Tech Support

07/28/1995

Doc. Date:

Economic

Analysis Date: 07/28/1995

Risk Analysis

Date:

Public Notice 07/15/1994

Date:

**Public** 

Yes

Hearing:

Proposal Date: 07/15/1994 FR Proposal: 59 FR 36130

Promulgation 08/18/1995

Date:

FR

Promulgation: 60 FR 43243

Effective

08/18/1995

Date:

FR Effective: 60 FR 43243

BID: APTD-1352A,B,C: BKGD INFO FOR NSPS: PETROLEUM REFINERIES EPA-4: 003: BKGD INFO FOR NSPS: PETROLEUM REFINERIES EPA-450/3-85-001A,B: VC FROM PET RFNRY WASTEWATER SYS EPA-450/3-80-033A,B: VOC FUG EMISS I REFIN INDUSTRY EPA-453/D-92-016A.B.C: HAP EMISS FROM PROCESS UNITS I

Notes

95-015B: NESHAP BKGD INFO FOR FINAL STDS, SUMMARY OF COMMENTS EN AVERAGING ALLOWED AMONG EXISTING SRC (EXCEPT LEAKS) AT SITE. RE EQUIPMENT LEAKS BASED ON 40 CFR 63 SUBPART H (HON), WITH DIFFEREN REFLECT WHAT IS TECHNOLOGICALLY FEASIBLE. REFINERIES MAY ALSO C TO COMPLY WITH NSPS (40 CFR 60 SUBPART VV) TO USE EXISTING LDAR PR

Report Date: 12/06/2004 Regulations (Freeform)

\*Process: STORAGE VESSELS

\*Process Type(s): 50.007 \*SCC Code: 3-06-008-99

Throughput:

Throughput Unit: SEE PROCESS NOTES

EXISTING: >= 177 M3 AND >= 10.4 KPA AND > 4% HAP BY WEIGHT NEW: >= AND >= 3.4 KPA AND > 2% HAP BY WEIGHT, OR 76 - 151 M3 AND >= 77 KPA

Process Notes: HAP BY WEIGHT. DOES NOT APPLY TO VESSELS FOR >29.7 PSIA OR TO

WASTEWATER TANKS. FITTING CONTROLS REQ'D ON NEW TANKS FOR V

PRESS > 0.5 PSIA.

\*Pollutant: HAP

\*CAS Number:

Control Method CLOSED VENT SYSTEM TO CONTROL DEVICE INT. FLOATING ROOF W/ DE

Description: SEALS; EXT FIXED-RF W/ INT FLOAT. ROOF & DBL RIM SEALS

Emission Limit 1:0

Emission Limit 1

Unit:

SEE P2

Emission Limit 1 Condition:

Percent

Efficiency:

95

Emission Limit 2: 0 Emission Limit 2

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

**Annualized Cost:** 

O&M Cost:

Cost

Effectiveness:
Dollar Year Used
In Cost Estimates:

Pollutant Notes:

\*Process: WASTEWATER STREAMS

\*Process Type(s): 50.009 \*SCC Code: 3-06-005

Throughput: Throughput Unit:

APPLIES TO FACILITIES WITH BENZENE LOADINGS OVER 10 MG/YR. REQ.

ON 40 CFR 61 SUBPART FF (BENZENE WASTEWATER NESHAP). REFINERIE

Process Notes: COMPLIANCE WITH NESHAP ARE CONSIDERED IN COMPLIANCE WITH RE

MACT.

\*Pollutant: **BENZENE** \*CAS Number: 71-43-2

Control Method

SUPPRESS. FOLLOW. BY STEAM STRIP OR OTHER 95% CTRL

Description:

Emission Limit 1:99

Emission Limit 1 % REDUCTION OF MASS

**Emission Limit 1** 

Condition:

Percent

0

Efficiency:

Emission Limit 2:0 Emission Limit 2

Unit:

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F CAP Cost of

Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: LEAKS - PUMPS AND VALVES, LIGHT LIQ & GAS/VAPOR

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput:

Throughput Unit:

APPLIES IF EQUIPMENT CONTAINS MORE THAN 5% HAP. QUARTERLY LD. Process Notes:

ALLOWED IF < 3% LEAKERS, PUMPS, OR < 4% OR 5%, VLAVES.

\*Pollutant: HAP

\*CAS Number:

Control Method LEAK DETECTION AND REPAIR (LDAR). QUALITY IMPROVMENT PLAN (Q)

Description: REQUIRED IF STANDARDS NOT MET

Emission Limit 1:0

Emission Limit 1 SEE P2

Unit:

**Emission Limit 1** 

Condition:

Percent

0 Efficiency:

Emission Limit 2:0

**Emission Limit 2** 

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F CAP Cost of

Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates: Pollutant Notes:

\*Process: **LEAKS - COMPRESSORS** 

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput:

Throughput Unit:

Process Notes: HYDROGEN COMPRESSORS ARE EXEMPT.

\*Pollutant: **HAP** 

\*CAS Number:

Control Method BARRIER FLUID SEAL SYSTEM TO PREVENT HAP LEAKS LEAK DETECTION

Description: REPAIR (LDAR)

Emission Limit 1:0

Emission Limit 1 SEE CONTROLS/P2

Unit:

Emission Limit 1

Condition:

Percent 0

Efficiency: Emission Limit 2:0

**Emission Limit 2** 

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

**Annualized Cost:** 

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: LEAKS - SAMPLING CONNECTORS

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput: Throughput Unit: **Process Notes:** 

\*Pollutant: HAP

\*CAS Number:

Control Method CLOSED PURGE, CLOSED LOOP, OR CLOSED VENT SYSTEM LEAK DETECT

Description: REPAIR (LDAR)

Emission Limit 1:0

Emission Limit 1 SEE CONTROLS/P2

Unit:

**Emission Limit 1** Condition: Percent

Efficiency:

Emission Limit 2:0 **Emission Limit 2** 

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F CAP Cost of

Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness: Dollar Year Used In Cost Estimates:

Pollutant Notes:

LEAKS - OPEN-ENDED LINES OR VALVES \*Process:

\*Process Type(s): 50.007 \*SCC Code: 3-06-008-99

Throughput: Throughput Unit: **Process Notes:** 

\*Pollutant: **HAP** 

\*CAS Number:

Control Method CAP, BLIND FLANGE, OR PLUG LEAK DETECTION AND REPAIR (LDAR) Description:

Emission Limit 1:0

Emission Limit 1

SEE CONTROLS/P2

Unit:

**Emission Limit 1** 

Condition:

Percent

0 Efficiency:

Emission Limit 2: 0 Emission Limit 2

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F

CAP Cost of Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: LEAKS - PRESSURE RELIEF VALVES

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-99

Throughput: Throughput Unit: Process Notes:

\*Pollutant: HAP

\*CAS Number:

Control Method ACHIEVE EQUIV. OF ZERO EMISSIONS IF NO RUPTURE DISK OR CLOSED V

Description: SYSTEM. MONITOR AFTER EACH RELEASE

Emission Limit 1:0

Emission Limit 1

SEE CONTROLS/P2

Unit:

**Emission Limit 1** 

Condition:

Percent

Efficiency:

Emission Limit 2:0

**Emission Limit 2** 

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

**Annualized Cost:** 

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: LEAKS - PROCESS EQUIPMENT

\*Process Type(s): 50.007 \*SCC Code: 3-06-008-99

Throughput:

Throughput Unit: HEAVY LIQUID

INCLUDES PUMPS, VALVES, CONNECTORS, AND AGITATORS. RECIPROCA Process Notes:

PUMPS ARE EXEMPT.

\*Pollutant: **HAP** 

\*CAS Number:

Control Method

IF INSPECTION DETECTS POSSIBLE, THEN MONITOR WITH AN INSTRUME!

Description:

Emission Limit 1:0

Emission Limit 1 SEE P2

Unit:

**Emission Limit 1** Condition:

Percent

0 Efficiency: Emission Limit 2:0

**Emission Limit 2** 

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness: Dollar Year Used In Cost Estimates:

Pollutant Notes:

\*Process: **LEAKS - CONNECTORS** 

\*Process Type(s): 50.007 \*SCC Code: 3-06-008-99

Throughput:

Throughput Unit: LIGHT LIQ &GAS/VAPOR

Process Notes:

\*Pollutant: **HAP** 

\*CAS Number:

Control Method RANDOM MONITORING OR COMPLETE INSPECTION W/IN 12 MOS IN EXCE

Description: FOR LESS STRINGENT VALVE LIMITS.

Emission Limit 1:0

Emission Limit 1

Unit:

SEE P2

**Emission Limit 1** 

Condition:

Percent

0

Efficiency:

Emission Limit 2:0

**Emission Limit 2** 

Unit:

**Emission Limit 2** 

Condition:

Emission Type: F

CAP Cost of

Control

Equipment:

Annualized Cost:

O&M Cost:

Cost

Effectiveness:

Dollar Year Used

In Cost Estimates:

Pollutant Notes:

\*Process: PROCESS VENTS

\*Process Type(s): 50.007

\*SCC Code: 3-06-008-22

Throughput:

Throughput Unit: > 20 PPMV/ 72 LB/DAY

APPLIES TO NONCONDENSABLE GASES VENTED FROM CONDENSERS AN

VACUUM (STEAM) EJECTORS. CONTROLS REEQUIRED FOR GROUP I VENT

EMIT >72 LB/DAY FOR EXISTING AND >15 LB/DAY FOR NEW SOURCES. GR **Process Notes:** 

VENTS NOT REQUIRED TO APPLY CONTROLS. STANDARD REQUIRES RED

OF HAP TO LESS STRINGENT LIMIT.

\*Pollutant: HAP

\*CAS Number:

Control Method

FLARE, BOILER, PROCESS HEATER, INCINERATOR

Description: Emission Limit 1:20

Emission Limit 1 PPMV

Unit:

**Emission Limit 1** 

Condition:

Percent

Efficiency:

Emission Limit 2:98

Emission Limit 2 % REDUCTION

Unit:

Emission Limit 2

Condition:

Emission Type: F

CAP Cost of

Control

Equipment: Annualized Cost: O&M Cost:

Cost

Effectiveness:
Dollar Year Used
In Cost Estimates:

Pollutant Notes:

# APPENDIX H POLLUTANT LIST AND SYNONYMS INDEX

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## **Appendix H -- Pollutant List and Synonyms Index**

### POLLUTANT SYNONYMS INDEX

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS	CATEGORIES
3	Acetic Acid	64-19-7	Glacial Acetic Acid Ethanoic Acid Methane - Carboxylic Acid	VOC
4	Acetone	67-64-1	Dimethyl Ketone 2-Propanone Dimethyl Ketel	VOC
318	Acetonitrile	75-05-8	Methyl Cyanide Cyanomethene Ethyl Nitrile	HAP, VOC
314	Acetylene	74-86-2	Ethyne, Ethine	VOC
6	Acid Mist / Gases	NA	Varies by compound	Acid
7	Acrylamide	79-06-1	Acrylic Amide Propenamide 2-Propenamide Acrylamide Monomer	HAP, VOC

RBLC ID 9	POLLUTANT NAME Acrylic Acid	<b>CAS No.</b> 79-10-7	SYNONYMS Acroleic Acid Glacial Acrylic Acid Propenic Acid Ethylene Carboxylic Acid	<b>CATEGORIES</b> HAP, VOC
14	Acrylonitrile	107-13-1	Cyanoethylene Propenenitrile Vinyl Cyanide	HAP, VOC
11	Alkene Oxides	NA	Varies by compound	
12	Alkyd Polymers	NA	Varies by compound	VOC
13	Aluminum Oxide	1344-28-1	Alumina Corundum	Inorganic
139	Ammonia (NH3)	7664-41-7	Anhydrous ammonia Aromatic ammonia Vaporole	Inorganic
140	Ammonium Compounds	NA	For Example: Ammonium Chloride Ammonium Hydroxide Ammonium Nitrate Ammonium Sulfate	Inorganic
185	Antimony / Antimony Compounds	7440-36-0	Varies by compound	Inorganic, element
15	Argon	13994-71-3	none	Inorganic, element

RBLC ID 16	POLLUTANT NAME Arsenic / Arsenic Compounds	<b>CAS No.</b> 7440-38-2	SYNONYMS Varies by compound	CATEGORIES HAP, inorganic, metal, element
17	Asbestos	1332-21-4	Chrysotile Amosite Crocidolite	HAP, inorganic, Metamorphic mineral
19	Barium / Barium Compounds	7440-39-3	For Example: Barium sulfate Baryles Barite blanc fixe barium salt	Inoganic, metal, element, Inorganic, mineral salt
28	Benzene	71-43-2	Benzol Benzole Benzin Phene Phenyl hydride Coal napha Pyrobenzele	HAP, Aromatic hydrocarbon
20	Benzo(a)pyrene	50-32-8	Coal tar pitch Polycyclic organic matter (POM) Polynuclear aromatic hydrocarbon (PAH)	HAP, VOC, PAH, POM
23	Benzotrichloride	98-07-7	Trichloro toluene Benzoic trichloride TrichloroMethyl benzene	HAP, VOC

RBLC ID 24	POLLUTANT NAME Benzyl Chloride	CAS No. 100-44-7	SYNONYMS  Phenyl methyl chloride Chlorophenyl methane Chloro methyl benzene alpha chlorotoluene	<b>CATEGORIES</b> HAP, VOC
22	Beryllium / Beryllium Compounds	7440-41-7	Cosmogenic beryllium	HAP, inorganic, metal, element
67	Biphenyl	92-52-4	Diphenyl Phenyl Benzene Lemonene	HAP, VOC
26	Bromine	7726-95-6	Aqueous bromine	Inorganic, element, halogen
312	1,3-Butadiene	106-99-0	Buta-1,3-diene Biethylene Vinylethylene	HAP, VOC
27	n-Butyl Acetate	123-86-4	Butyl acetate Butyl ethanoate Butyl ester of acetic acid	VOC
132	n-Butyl Alcohol	71-36-3	n-Butanol 1-Butanol Butyl Hydroxide Hydroxyl Butane n-Propyl Carbinol	VOC
36	Cadmium / Cadmium Compounds	7440-43-9	Varies by compound	HAP, metal, inorganic element

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS	CATEGORIES
29	Calcium / Calcium Compounds	7440-70-2	For Example: Calcium hydroxide slaked lime hydrated lime Calcium oxide quick lime lime burnt lime pebble lime unslaked lime	Metal, inorganic, calcium salt
32	Caprolactam	105-60-2	Aminocaproic lactam Epsilon-Caprolactam Hexahydro-2H-azepin-2-one 2-Oxohexamethyleneimine	organic, solid
33	Carbon Black	1333-86-4	Acetylene black Lamp black Channel black Furnace black Thermal black	organic, solid
49	Carbon Dioxide	124-38-9	Carbonic acid gas Dry ice	GHG, Greenhouse gas
57	Carbon disulfide	75-15-0	Carbon bisulphide Carbon sulfide Dithiocarbonic Aldehyde	НАР

RBLC ID 48	POLLUTANT NAME Carbon monoxide	CAS No. 630-08-0	SYNONYMS Carbon oxide Fluegas Monoxide	CATEGORIES GHG, Greenhouse gas
34	Carbon tetrachloride	56-23-5	Carbon oxide Carbon Tet Freon 10 Halon 104 Tetrachloro methane	HAP, GHG, Greenhouse gas
52	Carbonyl sulfide	463-58-1	Carbon monoxide mono- sulfide Carbonoxy sulfide Monosulfide	HAP, organic gas
56	Cesium	7440-46-2	none	Metal, inorganic element
44	Chlorine / Chlorine Compounds	7782-50-5	For Example: Chlorine dioxide Chlorine gas Chlorine oxide Chlorine peroxide Oxychlorine	HAP, inorganic gas, Halogen
2	3-chloro-4-methyl aniline	95-74-9	Benzenamine 3-Chloro-4-Methyl 2-Chloro-4-Aminotoluene p-Toluidine 3-Chloro 1-Amino-3-Chloro-4-Methlbenzene	VOC
40	Chloroform	67-66-3	Trichloromethane Methane trichloride	HAP, VOC

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS	CATEGORIES
41	Chromic acid	1333-82-0	Chromic anhydride Chromium trioxide Chromium (VI) oxide	HAP, inorganic
53	Chromium / Chromium Compounds, -3 & -6	7440-47-3	Varies by compound	HAP, inorganic
42	Chromium compounds, -3 only	7440-47-3	Varies by compound	HAP, inorganic, metal salt, Cr 3
55	Chromium Compounds, -6 only	7440-47-3	Varies by compound	HAP, inorganic, metal salt, Cr 6
50	Coal Dust	PM	none	Coal dust
51	Cobalt / Cobalt Compounds	7440-48-4	Varies by compound	HAP, metal, element
58	Copper / Copper Compounds	7440-50-8	Varies by compound	Metal, element
61	Dibutyl Phthalate	84-72-2	di-n-Butyl Phthalate Dibutyl Ester 1,2-Benzene-Dicarboxylic Acid	HAP, VOC
60	1, 4-Dichlorobenzene	106-46-7	para-DCB Dichlorocide para-dichlorobenzene	HAP, VOC
59	1, 4-dichloro-2-butene	764-41-0	Dichlorotoluene 1, 4-DCB	VOC

RBLC ID 35	POLLUTANT NAME Dichlorodifluoromethan	CAS No. 75-71-8	SYNONYMS Freon 12 Halon 12 Fluorocarbon12	CATEGORIES Greenhouse Gas, CFC
62	Diisobutyl Ketone	108-83-8	Sym Diisopropyl Acetone 2, 6-Dimethyl-4-Heptanone DIBK Valerone	VOC
63	Dimetyl acetamide	127-19-5	N, N-Dimethyl Acetamide DMAC	VOC
64	Dimethylformamide	68-12-2	N, N-Dimethylformamide Dimethyl Formamide	HAP, VOC
66	Dioxins & Furans	SEQ 128	Varies with Compound. Examples include: Aroclor 1242 (PCB)" CDD Chlorinated Dibenzo-p-Dioxins Chloro-dibenzo Dioxins Chloro-dibenzo Furans Chlorodiphenyl Dibenzofurans PCB PCDD Persistent Organic Pollutants Polychlororinated Biphenyls Polychlorinated Dibenzo Dioxin Polychlorinated Dibenzo Furans POP	HAP, VOC, Dioxin/Furan

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS Tetrachloro Dioxin Tetrachlorodibenzo-p-Dioxin 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Tetrachlorodibenzo Furan	CATEGORIES
70	Ethyl Acetate	141-78-6	Acetic ester Acetic ether ethyl ethanoate ethy ester acetic acid	VOC
69	Ethyl Alcohol	64-17-5	Ethanol grain alcohol ETOH alcohol Cologne spirit	VOC
71	Ethyl Benzene	100-41-4	Ethylbenzol Phenylethane	HAP, VOC
68	Ethylene	74-85-1	Ethyene olefiant	VOC
309	Ethylene Dichloride	107-06-2	1, 2-dichloroethane ethylene chloride glycol dichloride	HAP, VOC
72	Ethylene Glycol	107-21-1	1, 2-dihydroxyethan 1,2-ethanediol glycol glycol alcohol monethylene glycol	HAP, VOC

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS	CATEGORIES
116	Ethylene Glycol Mono- Methyl Ether Acetate	110-49-6	EGMEA Glycol Monomethyl Ether Acetate 2-Methoxyethyl Acetate Methyl Cellosolve Acetate	HAP, VOC
73	Ethylene Oxide	75-21-8	Dimethylene Oxide 1,2-Epoxy Ethane Oxirane	HAP, VOC
108	Ferric Oxide	1309-37-1	Iron (III) Oxide Red Oxide Rouge	inorganic, metal oxide
74	Fluorine	7782-41-4	Fluorine-19	Inorganic, gas
75	Fluorides, Total	16984-48-8	Varies with Compound	Inorganic salts
77	Formaldehyde	50-00-0	Methyl Aldehyde Methanal Methylene Oxide	HAP. VOC
78	Formic acid	64-18-6	Hydrogen Carboxylic Acid Methanoic Acid	VOC
84	Furfural	98-01-1	Fural 2-Furancarboxaldehyde Furfuraldehyde 2-Furfuraldehyde	VOC, dioxin/furan

RBLC		GAG N	GVAVONVAG	CARROONIC
<b>ID</b> 85	POLLUTANT NAME Gasoline	<b>CAS No.</b> 8006-61-9	SYNONYMS Petrol motor fuel motor spirits	<b>CATEGORIES</b> VOC
86	Graphite	7782-42-5	Black lead Mineral carbon Plumbago Silver graphite Stove black	Organic solid, Elemental carbon
233	Hazardous Air Pollutants (HAP)	HAP	Varies with Compound	HAP
92	Halogens	NA	Varies with Compound	
99	Heavy Metals	HAP	Varies with Compound	HAP
100	Heptane	142-82-5	n-Heptane normal Heptane	VOC
104	Hexamethylene Diisocyanate	822-06-0	1,6-Diisocyanatohexane Hexamethylene-1,6-Diisocyanate 1,6-Hexamethylene Diisocyanate HMDI	HAP, VOC
101	Hexane	110-54-3	normal Hexane n-Hexane Hexyl Hidride	HAP, VOC
308	Hexene	592-41-6	Butyl ethylene	VOC

RBLC ID 105	POLLUTANT NAME Hydrazine	CAS No. 302-01-2	SYNONYMS Diamine Andydrous hydrazine	CATEGORIES HAP, VOC
94	Hydrocarbons, Total	VOC	Varies with Compound	VOC
96	Hydrochloric acid	7647-01-0	Hydrogen Chloride Aqueous Hydrogen Chloride Muriatic acid	HAP, inorganic, acid
95	Hydrochlorofluorocarbons (HCFC)	HCFC	Varies with Compound	VOC, GHG, HCFC
93	Hydrogen Bromine	10035-10-6	Hydrobromic acid	HAP, inorganic, acid
97	Hydrogen Cyanide	74-90-8	Formonitrile Prussic acid Hydrocyanic acid	HAP, VOC
102	Hydrogen Fluoride	7664-39-3	Hydrofluoric acid	HAP, inorganic, acid
107	Hydrogen Peroxide	7722-84-1		
88	Hydrogen Sulfide	7783-06-4	Sewer gas Hydrosulfuric Acid Sulfretted Hydrogen	HAP, inorganic, gas
109	Isooctyl Alcohol	26952-21-6	Isooctanol Oxooctyl alcohol	VOC
110	Isopropyl Acetate	108-21-4	isopropyl ester of acetic acid 2-Propyl Acetate	VOC

<b>RBLC</b>				
ID	POLLUTANT NAME	CAS No.	SYNONYMS	<b>CATEGORIES</b>
111	Isopropyl Alcohol	67-63-0	Dimethyl Carbinol IPA Isopropanol 2-Propanol Secondary-Propyl Alcohol Rubbing Alcohol	VOC
159	Lead (Pb) / Lead Compounds	7439-93-2	Varies with Compound. Examples are: Lead Monoxide Lead oxide Lead (II) oxide Litharge Missicot	HAP, inorganic, metal oxide
113	Lithium / Lithium Compounds	7439-93-2	Varies with Compound	Inorganic, metal, element
126	Magnesium / Magnesium Compounds	7439-95-4	Varies with Compound	Inorganic, metal, element
114	Maleic anhydride	108-31-6	cis-Butenedioic anhydride 2,5-Furanedione Maleic acid anhydride Toxilic anhydride	HAP, VOC
130	Manganese / Manganese Compounds	7439-96-5	none	HAP, inorganic, metal element

RBLC ID 103	POLLUTANT NAME Mercury	<b>CAS No.</b> 7439-97-6	SYNONYMS hydragyrum quicksilver liquid silver	CATEGORIES HAP, inorganic, metal element
120	Metharcylic Acid	79-41-4	Methyl propenic acid	VOC
121	Methane	74-82-8	natural gas marsh gas swamp gas	Organic gas
122	Methanol	67-56-1	Methyl alcohol wood alcohol Carbinol	HAP, VOC
123	Methyl Amyl Ketone	110-43-0	Amyl methyl ketone n-Amyl methyl ketone 2-Heptanone	VOC
124	Methyl Bromide	74-83-9	bromomethane monobromomethant	HAP, VOC
196	Methyl chloroform	71-55-6	1,1,1-Trichloroethane Chlorothene	HAP, VOC
320	Methyl Ethyl Benzene	98-82-8	Cumene Cumol Isopropyl Benzene	HAP, VOC

RBLC ID 1	POLLUTANT NAME Methyl Ethyl Ketone	<b>CAS No.</b> 78-93-3	SYNONYMS MEK 2-Butanone 2-Oxobutane Methyl Acetone	CATEGORIES HAP, VOC
119	Methyl Ethyl Ketone Peroxide	1338-23-4	2-Butanone Peroxide MEK Peroxide	HAP, VOC
129	Methylhydrazine	60-34-4	Monomethylhydrazine	HAP, VOC
127	Methy Isobutyl Ketone	108-10-1	Hexone MIK 4-Methyl-2-Pentanone	HAP, VOC
317	Methyl Tertiary Butyl Ether	994-05-8	2-Methox-2-Methyl Butane MTBE Tert Amyl Ether TAME	HAP, VOC
115	4-4 Methylene bis-2-chloro aniline	101-14-4	3,3'-dichloro-4,4'-diaminodiphenyl methane 4,4-methylene bis o-chloroaniline	HAP, VOC
39	Methylene chloride	75-09-2	Dichloromethane Freon 30	HAP, VOC
117	Methylene diphenyl diisocyanate	101-68-8	MDI Benzene, 1, 1-methylene bis 4-isocyanate 4,4-Methylene di-phenyl isocyanate Methyl diisocyanate	HAP, VOC

RBLC ID 128	POLLUTANT NAME Mineral spirits	<b>CAS No.</b> 64475-85-0	SYNONYMS Petroleum spirits white spirit	<b>CATEGORIES</b> VOC
131	Molybdenum	7439-98-7	none	inorganic, metal, element
137	Naphtha	64742-89-8	solvent naphtha light aliph aliphatic petroleum solvent	VOC
138	Naphthalene	91-20-3	Tar camphor Napthalin White tar	HAP, VOC
25	2-Naphthylamine	91-59-8	beta-Naphthylamine Amino-naphthalene	VOC
150	Neopentyl Alcohol	75-84-3	2, 2-dimethyl-1-propanol neoamyl alcohol	VOC
143	Nickel	7440-02-0	none	HAP, inorganic, metal, element
144	Nitric acid	7697-37-2	aqua fortis	inorganic acid
147	Nitrogen dioxide	10102-44-0	none	inorganic gas
149	Nitrogen oxides (NOx)	10102	none	inorganic gas
134	Nitrous oxide	10024-97-2	dinitrogen monoxide Freon 16	inorganic gas

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS	CATEGORIES
151	Nonprecursor oganic compound	NA	Negligibly Reactive Organic Compounds	organic
152	Odor	NA	NA	NA
306	Particulate Matter $< 2.5 \mu \ (PM2.5)$	PM	Particulate matter less than 2.5 microns	PM
171	Particulate Matter $< 10 \mu$ (PM10)	PM	Particulate matter less than 10 microns	PM
229	Particulate Matter (PM)	PM	Particulate matter (no size designation)	PM
170	Particulate Matter (PM), Filterable	PM	Particulate matter	PM
79	Particulate Matter (PM), Fine Suspended	PM		PM
80	Particulate Matter (PM), Fugitive	PM		PM
155	Particulate Matter (PM), Organic Condensables	PM		PM
165	Pentane	109-66-0	n-Pentane normal Pentane	VOC
164	Pentachloronitrobenzene	82-68-8	Quintozene Quintobenzene	HAP, VOC

<b>RBLC ID</b> 167	POLLUTANT NAME Phenol	CAS No. 108-95-2	SYNONYMS Carbolic Acid	CATEGORIES HAP, VOC
			Hydroxybenzene Monohydroxybenzene", Phenyl alcohol Phenyl hydroxide	
169	Phosphorus / Phosphorus Compounds	7723-14-0	Varies with Compound. Examples are: Elemental Phosphorus Furnace-grade phosphoric acid Hydrogen Phosphide Phosphine Phosphorated Hydrogen Phosphoric acid Phosphorus chloride Phosphorus hydride Phosphorus oxychloride Phosphorus oxytrichloride Phosphorus trihydride Phosphoryl chloride White phosphorus	HAP, Inorganic element
175	Polcyclic Organic Matter (POM)	НАР	cigarette smoke vehicle exhaust home heating laying tar grilling meat	HAP, VOC

RBLC ID 158	POLLUTANT NAME Polynuclear/Polycyclic Aromatic Hydrocarbons	<b>CAS No.</b> 130498-29-2	SYNONYMS PAH Benzanthracenes Benzopyrenes Benzofluoranthene chrysenes Dibenzanthracenes Indenopyrenes	CATEGORIES HAP, VOC
176	Potassium Hydroxide	1310-58-3	Caustic potash Potassium hydrate	Inorganic salt
174	Principle Organic Hazardous Constituents	HAP	РОНС	VOC, HAP
177	Products of combustion	NA		
133	Propyl Acetate	109-60-4	n-Propyl Acetate	VOC
319	Propylene	115-07-1	Isopropylidene Propene	VOC
178	Propylene Oxide	75-56-9	Methyl Oxirane Propene Oxide Propene Oxirane 1,2-Epoxypropane	HAP, VOC
179	Radionuclides	HAP	Atoms that are under going radioactive decay, including Radon	HAP, inorganic
186	Selenium	7782-49-2	none	HAP, inorganic, element

<b>RBLC ID</b> 187	POLLUTANT NAME Silicon Dioxide	<b>CAS No.</b> 7440-21-3	SYNONYMS  Quartz  Silica  sand	CATEGORIES Inorganic mineral
10	Silver	7440-22-4	Argentum	Inorganic, metal, element
334	Sodium Cyanide	143-33-9	none	Inorganic salt
191	Sodium Dichromate	10588-01-9	Sodium Bichromate	HAP, metal salt, Cr6
136	Sodium Hydroxide	1310-73-2	Caustic soda Soda lye Sodium Hydrate	Inorganic salt
310	Sodium Hypochlorite	7681-52-9	Hypochlorous Acid Sodium salt Bleach Clorox Antiformin	Inorganic, metal salt
193	Strontium Chromate	7789-06-2	Strontium yellow deep lemon yellow	Inorganic, metal salt
194	Styrene	100-42-5	Styrene Monomer Styrolene Ethenylbenzene Cinnamol Cinnamene Styrol"	HAP, VOC

RBLC ID 184	POLLUTANT NAME Sulfur / Sulfates	<b>CAS No.</b> 7704-34-9	SYNONYMS Flowers of sulfur Sulphur Colsul Brimstone Collokit Sulfate, total (as SO4) Sulphates	CATEGORIES
189	Sulfur Dioxide	7446-09-5	Sulfur dioxide, total as SO <sub>2</sub>	Inorganic oxide
192	Sulfur Oxides (SOx)	NA	$SO_3 + SO_2$	Inorganic oxide
190	Sulfur trioxide	7446-11-9	$SO_3$	Inorganic oxide
209	Sulfur, Total Reduced (TRS)	7704-??-?	Total Reduced Sulfur Compounds Sulfide Reduced sulfur compounds	Inorganic salts
89	Sulfuric Acid (mist, vapors, etc)	7446-93-9	Oleum oil of vitriol battery acid Sulphuric Acid	Inorganic oxide
200	Terpenes	125783-65- 5	Acetyl cedrene Cedarwood oil	VOC
166	Tetrachloroethylene	127-18-4	Perchloroethylene Perk	HAP, VOC
204	Thallium	7440-28-0	none	Inorganic metal element

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS	CATEGORIES
188	Tin / Tin Compounds	7440-31-5	For example: Stannum Tetramethyl Tin	Inorganic metal element
203	Titamium Dioxide	13463-67-7	Titamium Oxide	Inorganic oxide
202	Titamium Tetrachloride	7550-45-0	none	Inorganic chloride
206	Toluene	108-88-3	Methyl benzene Methacide Phenyl methane Tolyol	HAP, VOC
157	p-Toluene	106-49-0	para-Toluidine 4-Aminotoluene 4-Methybenzeneamine	VOC
335	2,4-Toluene Diisocyanate	584-84-9		HAP, VOC
210	Total Suspended Particulates	PM	TSP	PM
199	Trichloroethylene	79-01-6	Ethylene Trichloride TCE Trichloroethene Trilene	HAP, VOC
208	Triethylamine	121-44-8	TEA	HAP, VOC
211	Uranium	7440-61-1	Uranium 238 U 238"	Inorganic, metal element

RBLC ID	POLLUTANT NAME	CAS No.	SYNONYMS	CATEGORIES
212	Uranium Tetrafluoride	10049-14-6	Uranium Fluoride	Inorganic, metal salt
213	Vanadium	7440-62-2	none	Inorganic, metal element
214	Vinyl chloride	75-01-4	Chloroethene	HAP, VOC
217	Visible Emissions	VE		
218	Volatile Organic Compounds (VOC)	VOC	Nonmethane Hydrocarbons Nonmethane Organic Carbon Nonmethane VOC Precursor Organic Compounds Reactive Organic Compounds (ROC) Reactive Organic Gases (ROG) Reactive hydrocarbons	VOC
219	o-Xylene	1330-20-7	1,2-Dimethyl Benzene Ortho-Xylene	HAP, VOC
221	Zinc /Zinc Compounds	7440-66-6	For Example: Zinc chromate	Inorganic, metal
222	Zirconium Sulfate (as Metal)	14644-61-2	none	Inorganic, metal salt