

RACT/BACT/LAER CLEARINGHOUSE

CLEAN AIR TECHNOLOGY CENTER

ANNUAL REPORT FOR 2000

A COMPILATION OF CONTROL

TECHNOLOGY DETERMINATIONS

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OFFICE OF AIR QUALITY PLANNING AND STANDARDS
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August 2000

DISCLAIMER

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RBLC ON-LINE ADDRESSES

The RACT/BACT/LAER Clearinghouse (RBLC) maintains an on-line data base of all of the control technology determinations that have been submitted to it. This electronic version of the RBLC and other related information are available at the Internet address listed below. Detailed instructions about how to access the RBLC are contained in this document. Please refer to the Table of Contents.

World Wide Web (WWW) **www.epa.gov/ttn/catc/**

The RBLC can be reached by clicking the appropriate icon on the CATC home page.

ACKNOWLEDGMENT

This project would not have been possible without the excellent cooperation of the many state and local air pollution control agencies and EPA Regional Offices who submitted the necessary technical information.

Special thanks are given to Mr. William Becker, Executive Secretary for the State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials (STAPPA/ALAPCO), Mr. Robert Hodanbosi from the Ohio EPA and Mr. William O'Sullivan from the New Jersey Department of Environmental Protection representing STAPPA, Wendy Barrott from the Wayne County Department of the Environment (Detroit, MI) and John A. Paul from the Regional Air Pollution Control Agency (Dayton, OH) representing ALAPCO, and other state, local, and EPA Regional Office representatives who have provided recommendations, guidance, and overall support for the RACT/BACT/LAER Clearinghouse effort over the past several years.

INTRODUCTION

BACKGROUND

The Clean Air Act prescribes several technology-based limitations affecting new or modified air pollution sources: 1) new source performance standards (NSPS); 2) best available control technology (BACT); and 3) lowest achievable emission rate (LAER). New Source Performance Standards are uniform national emission standards set by EPA for specific categories of new or modified stationary sources. In addition to meeting NSPS when applicable, major new or modified sources must also install either BACT or LAER, both of which are determined on a case-by-case basis. In all cases, BACT or LAER must be at least as stringent as any applicable NSPS. The BACT requirement, which is a part of the Prevention of Significant Air Quality Deterioration program (Sections 165 and 169 of the Clean Air Act), applies to emissions in areas that are in attainment with National Ambient Air Quality Standards (NAAQS). The LAER requirement, which is a part of the Nonattainment Program (Sections 171 and 172 of the Clean Air Act), applies to emissions that affect areas that are not in attainment with the NAAQS. While the specific criteria governing a BACT, LAER, or NSPS emission limit vary, the general underlying approach for all such determinations is to require "best control" on all major new or modified sources. Since 1977, state and local air pollution control agencies have gradually assumed primary responsibility for implementing BACT and LAER. As this authority was decentralized from the Federal government, it became important that information be made available to control agencies to assist them in making control technology determinations in a nationally consistent manner.

The 1990 Clean Air Act Amendments (CAAA) mandated several minor changes to the BACT/LAER Clearinghouse. Although the changes were minor, state and local agencies should note them for future consideration. The first change involved the name and an addition to the type of data contained in the Clearinghouse. The name has been changed to the RACT/BACT/LAER Clearinghouse (RBLC) and now includes reasonably available control technology (RACT) determinations. RACT is defined as the lowest emission limitation that a particular source is capable of meeting by application of control technology that is reasonably

available considering technological and economic feasibility. RACT is the minimum requirement EPA can accept for existing major sources in state non-attainment plans. Control Technique Guideline (CTG) documents are assembled by the EPA to assist state and local air pollution control agencies in determining the level of control that should be required within each area. The RBLC accepts case-by-case RACT decisions, as well as general RACT requirements, to assist state and local agencies in determining what level of control other areas of the country are requiring and, in turn, what level of control should be required within their jurisdiction.

The second change mandated by the 1990 CAAA involves LAER determinations. Prior to the 1990 CAAA, all submittals to the Clearinghouse were voluntary. However, Section 173(d) of the 1990 CAAA now mandates that state and local agencies submit any and all LAER determinations that they issue.

The basic purposes of the RBLC are to: 1) provide state and local air pollution control agencies, industry, and the public with current information on case-by-case control technology determinations that are made nationwide, and 2) promote communication, cooperation, and sharing of control technology information among the permitting agencies. The information presented in this compilation was abstracted from preconstruction permits and submitted by the state and local air pollution control agencies and EPA regional offices. The Clearinghouse is intended as a reference for state and local agencies in making RACT/BACT/LAER decisions.

The RBLC's primary vehicle for sharing control technology information is a data base of all determinations submitted to the RBLC. This RACT/BACT/LAER Clearinghouse information system permits on-line querying of the data base and makes the results available for viewing on-screen or downloading to a PC. This information system also supports direct submittals of control technology determinations by permitting agencies. Routine access to the data base is available to anyone who has a personal computer with Internet access or a modem and communication software.

All RBLC annual reports contain detailed information only for those permits entered into the Clearinghouse since the last published annual report. The 2000 edition adds 78 new determinations entered into the current determinations data base from June 1999 to August 2000 and includes 65 updated determinations previously included in the Clearinghouse. In addition, the

2000 edition provides listings for 111 determinations located in the New Source Review/Under Review Determinations data base.¹ The data base now contains several thousand determinations from 50 States and three territories. This annual report also includes a comprehensive index of all permits entered into the system since June 1994.

Table 1 summarizes the control technology determinations added to the current database that were received or updated since the publication of the June 1999 report, sorted by RBLC ID. Table 2 summarizes the control technology determinations currently located in the NSR/Under Review data base. These listings contain the identification number, the name of the company, and the process type code(s). The listings are provided to aid state and local agency personnel and other users in quickly identifying new information available since the 1999 published edition of the Clearinghouse.

¹ Please note that the records in the NSR/Under Review Determinations database may not be considered “complete” by the Clearinghouse and should be for reference purposes only. Please call the CATC Information Line at (919) 541-0800 for more information.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
AL-0077	TUSCALOOSA STEEL CORP.	81.007
AL-0087	TRICO STEEL CO., LLC	81.007
AL-0125	ALABAMA POWER PLANT BARRY	11.005
AL-0127	LOUISIANA-PACIFIC CORP	30.005
AL-0128	ALABAMA POWER COMPANY - THEODORE COGENERATION	11.005 15.004
AL-0129	IPSCO STEEL INC	81.007
AL-0133	BOISE CASCADE CORPORATION	30.002
AL-0135	ANNISTON ARMY DEPOT	11.005 22.002 22.004
AL-0144	SNG - ELMORE COMPRESSOR STATION	15.004
AL-0145	MOEPSI	50.006
AL-0146	DEGUSSA	70.999
AL-0147	MEAD CONTAINERBOARD	11.006
AL-0148	IP PRATTVILLE	30.002
AL-0151	SCOTT PAPER COMPANY	30.002
AL-0152	GULF STATES PAPER CORP.	30.002
AR-0022	US ARMY PINE BLUFF CHEMICAL DISPOSAL FACILITY	99.020
AR-0023	GEORGIA-PACIFIC ORIENTED STRANDBOARD FACILITY	30.005
AR-0024	WRIGHTSVILLE POWER FACILITY	15.004
AR-0026	PINE BLUFF ENERGY LLC - PINE BLUFF ENERGY CENTER	15.007
AR-0027	POTLATCH CORPORATION - CYPRESS BEND MILL	30.002
AR-0028	ARKANSAS LIME COMPANY	90.019
AR-0031	BEARDEN LUMBER COMPANY, INC.	30.999
CA-0402	KALKAN FOODS INC.	11.005
CA-0810	SACRAMENTO COGENERATION AUTHORITY P&G	15.004
CA-0811	SACRAMENTO POWER AUTHORITY CAMPBELL SOUP	15.004
CA-0813	SEPCO	15.004
CA-0814	SHELL MARTINEZ REFINING COMPANY	50.999
CA-0815	SANDBERG FURNITURE CO. INC.	41.025
CA-0816	DIGITAL PRINTING SYSTEMS	41.019
CA-0817	COYLE REPRODUCTIONS INC.	41.019
CA-0818	CINTON INC., WEST COAST LABELS DBA	41.019
CA-0819	BEST LABEL CO INC.	41.019
CA-0820	KIRK PLASTIC CO. INC, KIRK PLASTIC INC.	41.019
CA-0821	CONTAINER SUPPLY CO. INC.	41.019
CA-0822	UP-RIGHT, INC.	41.013
CA-0823	TRI-TECH GRAPHICS INC.	41.999
CA-0824	BIORECYCLING TECHNOLOGIES, INC	11.999
CA-0825	DOCTORS MEDICAL CENTER	11.005
CA-0826	AUTOMATION USA	49.008
CA-0827	DARLING & DURST	42.010
CA-0828	DELTA PLASTICS	41.016
CA-0829	G.E.N.Y. OPERATIONS COMPANY	15.004
CA-0830	ARCHIE CRIPPEN	15.002

Table 1. Control technology determinations received or updated since June 1999.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
CA-0831	SIMON NEWMAN, INC.	70.007
CA-0832	MODESTO STEAM LAUNDRY & CLEANERS	49.003
CA-0833	CONCRETE PRODUCTS, INC.	41.999
CA-0834	LABEL TECHNOLOGY INC.	41.023
CA-0835	PELCO	41.013
CA-0836	STERLING WEST, INC.	41.014
CA-0837	CITY OF MODESTO, COMPOST FACILITY	61.012 99.999
CA-0840	INTERNATIONAL COFFEE AND TEA	70.005
CA-0841	THE ROD MCLELLAN COMPANY	61.999
CA-0843	MINNESOTA METHANE TAJIUS CORPORATION	15.999 21.002
CA-0844	FOSTER FOOD PRODUCTS	70.999
CA-0846	CARSON ENERGY GROUP & CENTRAL VALLEY FINANCING AUT	15.004
CA-0851	CELITE CORPORATION (LOMPOC PLANT)	90.024
CA-0853	KERN FRONT LIMITED	15.004
CA-0854	MAPLE LEAF BAKERY	70.003
CA-0858	BEAR MOUNTAIN LIMITED	15.004
CA-0865	LOUISIANA-PACIFIC CORPORATION	30.005
CA-0868	MANSON CONSTRUCTION COMPANY	15.002
CA-0872	EDWARDS AIR FORCE BASE	22.999
CO-0038	FORT ST. VRAIN	15.004
CT-0132	CITY OF WATERBURY	21.004
CT-0133	PFIZER INC.	69.011
CT-0134	PFIZER INC.	69.011
CT-0135	PFIZER INC.	69.011
CT-0136	UNITED STATES SURGICAL CORPORATION	99.004
CT-0137	UNITED STATES SURGICAL CORPORATION	99.004
CT-0138	UNITED STATES SURGICAL CORPORATION	99.004
CT-0139	PDC EL PASO MILFORD LLC	15.004
CT-0140	PDC EL PASO MILFORD LLC	15.004
FL-0078	KISSIMMEE UTILITY AUTHORITY	15.004 15.006
FL-0117	CITY OF TALLAHASSEE UTILITY SERVICES	15.007
FL-0120	CARGILL FERTILIZER, INC.	70.007
FL-0121	CARGILL FERTILIZER, INC.	61.009
FL-0123	DUKE ENERGY NEW SOMYRNA BEACH POWER CO. LP	15.004
FL-0124	OLEANDER POWER PROJECT	15.007
FL-0125	TAMPA ELECTRIC COMPANY (TEC)	15.007
FL-0128	CARGILL FERTILIZER, INC.	90.026
FL-0129	FARMLAND HYDRO, L. P.	62.015
GA-0069	TENUSKA GEORGIA PARTNERS, L.P.	15.004
HI-0018	ENCOGEN HAWAII, L.P.	15.007

Table 1. Control technology determinations received or updated since June 1999.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
HI-0019	MAUI ELECTRIC COMPANY	15.002
HI-0020	HAWAII ELECTRIC LIGHT CO.	15.002
IA-0048	CARGILL INC - SIOUX CITY	11.005 70.007 70.015
IA-0050	CARGILL-EDDYVILLE	11.005
IA-0051	ARCHER DANIELS MIDLAND COMPANY	11.002
IL-0058	ARCHER DANIELS MIDLAND COMPANY	11.002 11.005
IL-0059	ARCHER DANIELS MIDLAND COMPANY	70.999
IL-0060	ARCHER DANIELS MIDLAND COMPANY	11.002 11.005 90.019
IL-0061	MOBIL OIL CORPORATION	50.003
IL-0063	PQ CORPORATION	62.999
IL-0064	CHEWTON GLEN ENERGY	11.999
IL-0065	GENERAL MOTORS - ELECTROMOTIVE DIVISION	99.999
IL-0066	DEVRO-TEEPAK	63.999
IL-0067	ARCHER DANIELS MIDLAND COMPANY	70.015
IL-0068	KEYSTONE STEEL & WIRE COMPANY	81.006
IN-0077	STEEL DYNAMICS, INC.	81.006
IN-0079	STEEL DYNAMICS, INC.	81.005
IN-0080	STEEL DYNAMICS, INC.	81.006
MI-0245	SOUTHERN ENERGY, INC.	15.004
MI-0246	DELPHI INTERIOR & LIGHTING SYSTEMS	41.016
MN-0033	POTLATCH CORPORATION	11.008
MT-0010	MONTANA REFINING COMPANY	90.004
MT-0011	MONTANA REFINING COMPANY	11.005
MT-0012	CONTINENTAL LIME INC.	90.019
MT-0013	MONTANA REFINING COMPANY	50.003 50.007 50.008
NE-0010	LINCOLN ELECTRIC SYSTEM	15.004
OH-0237	POLYMARK CORPORATION	41.014
PA-0155	CNG TRANSMISSION CORP., GREENLICK STATION	15.004
PA-0156	WATSONTOWN BRICK COMPANY	90.029
PA-0157	OSRAM SYLVANIA PRODUCTS, INC.	99.006
PA-0158	FORD ELECTRONICS AND REFRIGERATION, LLC	15.002
TN-0051	AQUA GLASS EAST	49.005
TN-0060	WHELAND FOUNDRY A DIV. OF NORTH AMERICAN ROYAL	81.004
TN-0061	WABASH NATIONAL CORPORATION	41.012
TN-0062	WAUPACA FOUNDRY, INC.	81.004
TN-0063	WAUPACA FOUNDRY, INC.	81.004

Table 1. Control technology determinations received or updated since June 1999.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
TN-0067	WAUPACA FOUNDRY, INC.	81.004
TN-0069	WAUPACA FOUNDRY, INC.	81.004
TN-0070	WAUPACA FOUNDRY, INC.	81.004
TN-0071	WAUPACA FOUNDRY, INC.	81.004
TN-0073	WAUPACA FOUNDRY, INC.	81.004
TN-0074	WAUPACA FOUNDRY, INC.	81.004
TN-0075	WAUPACA FOUNDRY, INC.	81.004
TN-0076	WAUPACA FOUNDRY, INC.	81.004
TN-0077	TN VALLEY AUTHORITY LAGOON CREEK COMBUSTION TURBIN	15.004
TN-0081	WAUPACA FOUNDRY, INC.	81.004
TN-0083	WAUPACA FOUNDRY, INC.	81.004
WY-0047	ENCOAL CORPORATION-ENCOAL NORTH ROCHELLE FACILITY	11.002 90.010 90.011 90.019 90.999
WY-0049	WESTERN GAS RESOURCES - HILIGHT GAS PLANT	15.004
WY-0050	SF PHOSPHATES LIMITED CO - FERTILIZER COMPLEX	61.009
WY-0051	UNION PACIFIC RESOURCES - PATRICK DRAW GAS PLANT	11.005 15.004
WY-0052	UNION PACIFIC RESOURCES - PATRICK DRAW GAS PLANT	11.005 15.004

Table 1. Control technology determinations received or updated since June 1999.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
AK-0018	ALASKA ELECTRICAL GENERATION & TRANSMISSION	15.004
AK-0021	ARCO ALASKA, INC.	15.004
AK-0033	RED DOG MINE	11.006 15.002 20.000 42.009 80.000 90.018 90.023
AK-0034	DILLINGHAM POWER PLANT	15.002
AK-0035	BAILEY POWERHOUSE	15.002
AK-0036	KUPARUK CENTRAL PRODUCTION FACILITY-1	11.005 15.004
AL-0131	SCOTT PAPER COMPANY	30.002
AL-0132	TENASKA ALABAMA GENERATING STATION	11.006 15.004
AL-0134	DAIKIN AMERICA, INC.	63.012
AL-0141	GPC - GOAT ROCK COMBINED CYCLE PLANT	15.004
AL-0142	HONDA MANUFACTURING OF ALABAMA, LLC	11.005 41.002 41.013 42.005
AL-0143	AEC - MCWILLIAMS PLANT	15.004
AL-0149	MCWILLIAMS PLANT	15.004
AL-0150	ALABAMA POWER - BARRY	11.005
AL-0153	DAIKIN AMERICA, INC.	64.001 64.002 64.004 64.999
AR-0025	GENERAL SHALE PRODUCTS CORPORATION, LLC	90.019
AR-0029	TEMPLE INLAND FOREST PRODUCTS CORP.	30.005
AR-0030	ARKANSAS STEEL ASSOCIATES	81.006 81.999
CA-0867	NORTHTOP-CRUMMAN	41.001
CA-0869	SAN DIEGO METRO PUMPING STATION #2	15.004
CA-0870	INTERNATIONAL EXTRUSION	41.013
CA-0873	SANDBERG FURNITURE MFG. CO. INC.	41.999
CA-0874	KIRK PLASTIC CO., INC. KIRK PLASTIC INC.	41.019
CA-0875	KAISER MARQUARDT	41.013
CA-0876	CROWN CITY PLATING	41.013
CA-0877	COLYE REPRODUCTIONS, INC.	41.019
CA-0878	DOUGLAS PRODUCTS DIVISON	41.001
CA-0879	CERTIFIED ENAMELING INC.	41.013
CA-0880	BRISTOL FIBERLITE INDUSTRIES	41.013
CA-0881	HUCK INTERNATIONAL - DEUTSCH OPERATIONS	41.001
CA-0882	BF GOODRICH AEROSPACE	49.008
CA-0883	VICKERS INC., STERERS DIVISION	49.008
CA-0884	PG IMTECH OF CALIFORNIA	41.013
CA-0885	BARRY CONTROLS	41.999

Table 2. Determinations Located in the NSR/Under Review Data Base

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
CA-0886	US ORDNANCE	41.999
CA-0887	CHEVRON PRODUCTS CO.	50.003
CA-0888	SIERRA ALUMINUM	41.013
CA-0889	KAL-GARD COATING & MFG., E/M CORP.	41.001
CA-0890	WONDRIES COLLISION CENTER	41.002
CA-0891	ARBEC MANUFACTURING, INC.	41.025
CA-0892	KIEWIT PACIFIC CO	15.002
CA-0893	ORANGE COUNTY FLOOD CONTROL DISTRICT	15.004
CA-0894	VAN WATERS & ROGERS	62.999
CA-0895	COACHELLA VALLEY WATER DISTRICT	15.002
CA-0896	CUMMINS CAL PACIFIC, INC.	15.002
CA-0897	UNIVERSITY OF CALIFORNIA IRVINE MEDICAL CENTER	11.005
CA-0898	DA/PRO RUBBER INC.	41.999
		63.999
CA-0899	ARTISAN RESOURCES	41.016
CA-0900	CANNON SAFE	41.013
CA-0901	TIME AVIATION SERVICES, INC.	41.001
CA-0902	MCDONALD MFG. INC.	41.013
CA-0903	DISNEYLAND RESORT	11.005
		15.003
CA-0904	SANTA CLARITA VALLEY FOOD SERVICES	15.002
CA-0905	TOSCO REFINING CO.	50.003
CA-0906	RUNNING SPRINGS WATER DISTRICT	15.002
CA-0907	US GOVERNMENT NAVAL AIR STATION NORTH ISLAND	15.002
CA-0908	DARLING INTERNATIONAL INC.	11.005
CA-0909	DART CONTAINER CORPORATION OF CALIFORNIA	90.015
CA-0910	SOLUTIONS UNLIMITED, WILSON'S ART STUDIO	41.023
CA-0911	CRESTLINE VILLAGE WATER DISTRICT	15.004
CA-0912	BROTHERS PRINTING COMPANY	41.023
CA-0913	MEDTRONIC AVALON LABORATORIES, INC.	90.016
CA-0914	GORDON LABORATORIES	99.999
CA-0915	MORTON INTERNATIONAL - ELECTRONIC METERIALS	99.006
CA-0916	THE BOC GROUP, INC.	62.999
CA-0917	SOUTHERN CALIFORNIA GAS COMPANY	11.005
CA-0918	SCHI SANTA MONICA BEACH HOTEL ASSOCIATES	11.005
CA-0919	COCA COLA	11.005
CA-0920	RAINBOW COATING, INC.	49.999
CA-0921	ACTION PURCHASING, INC.	41.016
CA-0922	INTERNATONAL PAPER COMPANY	41.021
CA-0923	ARAMARK UNIFORM CLEANERS	99.999
CA-0924	SCOETTLER TIRES	99.015
CA-0925	DEL MESA FARMS	70.012
CA-0926	KERN ASPHALT PAVING SEALING	15.002
CA-0927	CHANNEL & BASIN RECLAMATION	15.002
CA-0928	TOTER, INC	41.016
CA-0929	FEDERAL BUREAU OF PRISONS	11.005
CA-0934	GENERAL DYEING AND FINISHING, INC.	11.005
FL-0126	FLORIDA KEYS ELECTRIC COOP. ASSOC., INC.	15.002
FL-0127	PANDA - KATHLEEN	15.004
FL-0130	JEA	15.007

Table 2. Determinations Located in the NSR/Under Review Data Base

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
FL-0131	SEMINOLE HARDEE UNIT 3	15.007
FL-0132	FLORIDA POWER CORP. - UF COGENERATION FACILITY	15.004
FL-0133	CARGILL FERTILIZER	61.999
FL-0135	TAMPA ELECTRIC COMPANY	15.007
FL-0136	SUWANNEE AMERICAN CEMENT CO., INC.	90.028
FL-0138	CHAMPION INTERNATIONAL CORPORATION	30.006
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	90.028
MI-0178	VACUMET INC.	41.016
MI-0219	CASTLE MEDICAL DISPOSAL, INC.	29.004
MI-0242	CABOT CORP.	62.006
MI-0247	CITY MEDICAL WASTE SERVICE, INC.	29.004
MI-0248	REGENTS OF THE UNIVERSITY OF MICHIGAN	11.005
MS-0037	HINDS ENERGY FACILITY	15.007
MS-0039	ATTALA ENERGY FACILITY	15.007
PA-0158	FORD ELECTRONICS AND REFRIGERATION, LLC	15.002
RI-0012	ALGONQUIN GAS TRANSMISSION CO.	15.004
SC-0049	SKYGEN	11.005
		15.000
SC-0050	CHESTERFIELD LUMBER COMPANY	30.999
TN-0060	WHELAND FOUNDRY A DIV. OF NORTH AMERICAN ROYAL	81.004
TN-0064	WAUPACA FOUNDRY, INC.	81.004
TN-0065	WAUPACA FOUNDRY, INC.	81.004
TN-0066	WAUPACA FOUNDRY, INC.	81.004
TN-0068	WAUPACA FOUNDRY, INC.	81.004
TN-0072	WAUPACA FOUNDRY, INC.	81.004
TN-0078	WAUPACA FOUNDRY, INC.	81.004
TN-0079	WAUPACA FOUNDRY, INC.	81.004
TN-0080	WAUPACA FOUNDRY, INC.	81.004
TN-0082	WAUPACA FOUNDRY, INC.	81.004

REPORT FORMAT

Table 2. Determinations Located in the NSR/Under Review Data Base

This RBLC report was prepared to provide basic control technology information as well as to facilitate quick scans of company/facility name and process type information. It consists of three major parts presented in Appendices F, G, and H:

- Appendix F - a summary listing of processes for all determinations entered or updated since June 1995, sorted by facility name. Information includes the name of the company, permit date, process type code, process description, and an RBLC ID number as a reference for additional information.
- Appendix G - a summary listing of permitting agency contacts for all determinations entered or updated since June 1995, sorted by process type code. Information includes the name of the company, permit date, basic Agency contact information, and an RBLC ID number as a reference for additional information.
- Appendix H - a detailed listing, sorted by RBLC ID number, of all new individual facility information and updates to previously entered information submitted to the Clearinghouse since the June 1999 publication.

As an addition to the 2000 RBLC Annual Report, two new Appendices are being added. They contain data specific to the NSR/Under Review data base. The Appendices, named F1 and G1, are based on the same format described above for the Current data base. It should be understood that the data presented in Appendices F1 and G1 may not be complete and should be used for reference purposes only. A brief description of each type of table follows:

Appendix F - Index of Control Technology Determinations

Appendix F summarizes all RACT/BACT/LAER determinations in the Clearinghouse by facility name. Use Appendix F for scanning the control technology determinations entered for a particular company and the processes covered by the determination. Appendix F includes the date the permit was issued (estimated or actual), process type code and description, and a RBLC ID number (which indicates the state where each facility is located) for locating the more detailed facility information contained in Appendix H. Appendix F includes a notation to indicate whether a particular determination is listed in the 1996, 1997, 1998, or 1999 Annual Report. If the notation “1996”, “1997”, “1998”, or “1999” appears in front of the company name, then a detailed listing of that determination will not appear in this document; it may be found in the 1996,

1997, 1998, or 1999 Annual Report. If the notation is blank, detailed information on the facility can be found in this document.

Appendix G - Control Technology Determinations by Process Type

Appendix G summarizes the RACT/BACT/LAER determinations by process type. A complete listing of all process type codes is contained in Appendix B. The user should familiarize himself/herself with this listing in order to use Appendix G effectively. Appendix G includes the name of the company, the state where the source is located, the agency issuing the permit, name of person to contact within the agency for additional information, and a telephone number. Again, each entry in Appendix G has a RBLC ID number for locating the more detailed facility information contained in Appendix H. Appendix G includes a notation to indicate whether a particular determination is listed in the 1996, 1997, 1998, or 1999 Annual Report. If the notation is blank, detailed information on the facility can be found in this document.

Appendix H - Detailed Source Listings

In addition to Appendices F and G, a detailed listing of all new source data is provided in Appendix H. New determinations are initially entered into the Transient data base and, when approved by the RBLC staff, later promoted to the Current data base. If new determinations contain incomplete or erroneous data, and the RBLC staff cannot resolve these problems, the determinations may be deleted. This assures that all data promoted to the Current data base is accurate. However, there is the potential that some determinations listed in this document will be removed from the RBLC data base at a future date.

Appendix H has two parts: Part A and Part B. Only Part A is included in this document. Part A lists details about control technologies and emission limits for processes and pollutants. Part B details scheduling information related to permitting, as well as costs associated with control technology used for pollutants. Appendix H is intended to provide the maximum

manageable amount of technical and administrative information without duplicating a completed permit application.

Part A consists of:

- A RBLC ID number assigned by the Clearinghouse (consists of state abbreviation and a sequence number)
- the date the determination was inserted into the Clearinghouse
- the company name, plus street address, city, county, state, ZIP Code
- the date the permit was issued (estimated or actual)
- the state permit number (or EPA Regional Office file number)
- the date operation started (estimated or actual)
- the agency issuing the permit
- the contact person within the agency who is familiar with the control technology information
- agency telephone number for the contact person
- Aerometric Information Retrieval System identifier (AIRS ID)
- Standard Industrial Classification (SIC) code
- description of the process or processes being permitted, throughput capacity and corresponding units
- process type code
- Standard Source Classification (SCC) code
- pollutant name and emission limitations applicable to each permitted process
- standardized limits for pollutants
- basis for pollutant limit (RACT, BACT, LAER, etc.)
- Chemical Abstract Service (CAS) number
- pollution reduction method indicator that identifies whether the facility uses pollution prevention, add-on equipment, or both methods to meet the permitted emission limits; or whether no controls are feasible

- pollution reduction method description that provides details about the specific pollution prevention techniques and add-on equipment used
- percent efficiency for the control devices
- selected control option ranking
- notes on the determination

In some cases, a second emission limit is applicable to a given process/pollutant. In those cases, this second emission limitation is referred to in the RBLC as the alternate limit. Because the space available in Appendix H is limited, alternate limits are not included in the Appendix.

Abbreviations for processes and emission limitations have been developed. A complete list of these abbreviations is contained in Appendix A. Some comments have been received regarding the use of these abbreviations. Every effort has been made to use a standard set of abbreviations. In some cases, however, this was not possible. The control agencies are encouraged to review the abbreviations in Appendix A and submit any suggested revisions. The abbreviations are periodically reviewed and updated accordingly.

Part B has not been included in Appendix H because space is limited and minimal data has been entered in the date and cost fields. However, Part B is available in the RBLC BBS data base. Part B includes some basic information about the determination (RBLC ID, date inserted in the Clearinghouse, company name and address, permit number, permitting agency, and contact information) that also appears in Part A plus the following additional data:

- the date the application for permit was received (estimated or actual)
- the date the permit was issued (estimated or actual)
- the date operation started (estimated or actual)
- the date compliance was verified (estimated or actual)
- process name, throughput capacity and corresponding units
- whether or not compliance was verified and the compliance method used (stack test, inspection, calculation, other method)
- pollutant and associated costs of control system (capital costs, annual operation and maintenance costs, annualized costs)

- cost effectiveness of control system in dollars per ton
- year in which dollar values are expressed
- whether or not costs were verified by the permitting agency

IMPROVEMENTS TO THE SYSTEM

The RBLC operates on the Office of Air Quality Planning and Standards Technology Transfer Network (TTN) World Wide Web (Web) site and is part of the Clean Air Technology Web on the TTN. Users of the RBLC Web can search on any of 23 different components, and users can perform word searches on most of the searchable components. Searchable components have been designated as "required" fields for new determinations. This information must be provided on new information from submitting agencies in order to ensure that searches produce valid results.

The graphical environment of the WWW supports a simplified search procedure. Users select a data base of interest (see below) and one or more searchable properties from drop-down lists displayed in their web browser. They fill in text boxes with the value they are trying to match, and then click a submit button to execute the query. The query finds all determinations in the RBLC data base that match the specified criteria and displays the results for viewing in the browser. The familiar selection of one or more output formats is provided.

Permit data in the Clearinghouse has been segmented into three searchable data bases. The current data base (also known as the permanent data base) contains completed RBLC determinations entered since June 1991. These determinations have been reviewed by RBLC staff to ensure that the information is complete and correct. The second data base is the New Source Review (NSR) Early Notification/Under Review Determinations (transient) data base, which provides a work space for users to enter and update determinations. RBLC staff regularly review the transient data base and promote accurate and complete determinations into the permanent data base. The third data base, the historical data base, contains completed RBLC determinations entered before June 1991. This organization of the data bases was designed to ensure the

integrity of the RBLC data and to maintain a reasonable response time for users accessing the system.

The RBLC also maintains a data base of federal, state, and local regulations, which includes summaries of federal regulations enacted in response to the CAAA. These rules include Maximum Achievable Control Technology (MACT) standards, National Emission Standards for Hazardous Air Pollutants (NESHAP), New Source Performance Standards (NSPS), and Control Techniques Guideline (CTG) documents that specify requirements for Reasonably Available Control Technology (RACT). The regulation data base is available on the WWW and offers options that allow you to scan or query the rules data. The query option brings the power of user-defined queries to the complex details of air pollutant emissions regulations. Using the same user-friendly browser interface as the RBLC's permit data base, users can build a query to locate pertinent regulations for a particular pollutant or process or for a broad array of other criteria. You can also bypass the query step and go directly to viewing a list of all the federal and state regulations.

The RBLC's newest feature, a data entry module on the Web for on-line inputting and editing of regulations by responsible agencies, is now available. The new on-line data entry module replaces the old BBS method of entering new data. The new system was designed to be as simple and user-friendly as possible. It now allows entry of facility information specifically related to New Source Review such as plantwide emissions information and affected boundary locations.

The RBLC has an on-going effort to improve the functionality of the permit and regulation data bases and to make this information easier to retrieve. The web query capabilities are the most recent improvement. Another such feature in the Clearinghouse is the Statistical Ranking download report format that presents emission limits sorted from most to least stringent. This ordering is useful for comparing emissions for a single pollutant from a single process. The emission limits must be expressed in the same units. Standard units for emission limits have been established in the data base to allow meaningful comparisons among many diverse control

technology determinations. The Statistical Ranking report is based on these values. Sample reports are available on the web for viewing on-line or for downloading to your local PC.

Other improvements and revisions to the system will continue to be considered as a result of contacts with various state and local agencies. These improvements and revisions will be evaluated and made based on the recommendations of the state and local agencies that are entering or submitting determinations to the Clearinghouse. Watch the RBLC web page for more details on new capabilities of the RBLC Web.

All inquiries concerning RBLC and information contained in the data base should be directed to:

RACT/BACT/LAER Clearinghouse (MD-12)
Information Transfer & Program Integration Division
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

OR

The Clean Air Technology Center Information Line
(919) 541-0800, FAX (919) 541-0242
catcmail@epamail.epa.gov

PROCEDURES FOR FUTURE SUBMISSIONS TO THE CLEARINGHOUSE

The RBLC is intended to be a dynamic program. Periodic updates and new listings are welcomed. Submissions by state and local control agencies are entirely voluntary except for LAER determinations, which must be submitted to the Clearinghouse. Without submittals, however, the viability and usefulness of the program are jeopardized. Agencies are encouraged to make formal submittals at any time by using the on-line submittal procedures.

The Clearinghouse supports a variety of data submittal procedures. The data-entry module of the RBLC Web allows designated users in regional, state, and local air pollution control agencies direct on-line update capability. The preferred submittal method is on-line entry. A stand-alone version will be developed soon so that designated users can enter **NEW**

determinations on their local PCS without an Internet connection. After completing data entry on a stand-alone, users would forward their determinations by email or on a floppy disk to the RBLC for inclusion in the on-line data base. With either on-line or stand-alone input, data entered by designated users is placed into a searchable transient data base on the Web where quality assurance procedures are performed. Once the data is checked, it is promoted into the current RBLC data base. Designated users can access the data-entry module to make changes to current entries in the Clearinghouse. (The stand-alone editor cannot be used to edit determinations previously entered into the on-line RBLC data base).

For those who wish to make hardcopy (paper) submittals, the submittal form and instructions for data submittal are in Appendix E. The form in Appendix E can be reproduced and used to prepare or submit new determinations and/or to update existing information. All questions should be directed as indicated above.

Submittals can be made as soon as the permit application is received. It is not necessary to wait until the final permit is issued. The RBLC allows dates to be flagged as either estimated or actual; so that it is not necessary to know the exact schedule for the permitting and operation of the facility. Subsequent to the initial submittal, agencies may use the RBLC to update the status of the application. As with any automated information system, the RBLC data base offers flexible, user-defined queries and a variety of report formats. Needed information can be quickly accessed in whatever level of detail is appropriate.

PROCEDURES FOR ACCESSING THE CLEARINGHOUSE ON THE INTERNET

For access via the Internet, you will need an Internet connection and a web browser. Point your browser to the following address:

www.epa.gov/ttn/catc/

Then click on the RBLC icon to get to the data base.

The World Wide Web site lets you access all of the information on the TTN with your browser. You must be an authorized user of the RBLC to have access to the online entry portion

of the RBLC. Contact The Clean Air Technology Center Information Line at (919) 541-0800 for information on gaining authorization for online data entry.

APPENDIX A
ABBREVIATIONS FOR PROCESSES,
EMISSION LIMITS AND POLLUTANTS

ABBREVIATIONS FOR PROCESSES AND DESCRIPTORS

<u>ABBREVIATION</u>	<u>PROCESS OR DESCRIPTOR</u>
ADD	additive
AL	aluminum
AM	American
ASSOC	association
ATMOS	atmospheric
BLS	black liquor solids
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

<u>ABBREVIATION</u>	<u>PROCESS OR DESCRIPTOR</u>
GEN	generator
HAND	handling
HVLP	high-volume, low pressure (spray guns)
I.C.	internal combustion
INCIN	incinerator
INDEP	independent
INTERNAT	international
LAB	laboratory
LDOUT	loadout
LIQ	liquid
LT	light
MATL	material
MFG	manufacturing
MISC	miscellaneous
MODIF	modification
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
RTO	regenerative thermal oxidizer
SCR	selective catalytic reduction

ABBREVIATION

SCRUB

SECOND

SHIP

SNCR

SOLN

STOR

SUP

SYS

TRANS

UNIV

VAC

VERT

PROCESS OR DESCRIPTOR

scrubber

secondary

shipping

selective non-catalytic reduction

solution

storage

supplementary

system

transmission

university

vacuum

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
AV	average
BBL	barrels
BHP	brake horsepower
BLS	black liquor solids
BPSD	barrels per stream day
BTU	British thermal units
CF	cubic feet
CFM	cubic feet per minute
CU YD	cubic yard
D	day
D FEED	dry feed
DACF	dry actual cubic feet
DIST	distillate
DSCF	dry standard cubic feet
F	feet
G	gram
G/B-HP-H	grams per brake horsepower-hour
G/O	gas/oil
GAL/M	gallons per minute
GR	grains
H	hour
HP	horsepower
J	joule
KG	kilogram
KW	kilowatt

ABBREVIATION

EMISSION LIMIT UNIT

LB	pound
LT	long ton
M	thousand (10 ³)
MG/L	milligram per liter
MM	million (10 ⁶)
MO	month
MW	megawatt
N	natural
NG	nanogram
OPAC	opacity
PPM	parts per million
PPH	parts per hundred
RDF	refuse derived fuel
RESID	residual
SB	subbituminous
SCF	standard cubic feet
SCFD	standard cubic feet per day
SCFM	standard cubic feet per minute
SEC	second
SQF	square feet
T	ton
TPY	tons per year (found in notes of determinations)
VOL	volume
WKS	weeks
YR	year

ABBREVIATIONS FOR POLLUTANTS

<u>ABBREVIATION</u>	<u>POLLUTANT</u>
AG	silver
AN	acrylonitrile
AR	argon
AS	arsenic
BA	barium
BAP	benzo(a)pyrene
BE	beryllium
CA	calcium
CD	cadmium
CDD	chlorodibenzodioxins
CDF	chlorodibenzofurans
CL	chlorine
CL2	chlorine (gas)
CL2/OCL	chlorine and oxychlorine
CLO2	chlorine dioxide
CO	carbon monoxide
CO2	carbon dioxide
COS	carbonyl sulfide
CR	chromium
CRVI	hexavalent chrome
CS	cesium
CU	copper
DCB	1,4-dichloro-2-butene
ETH	ethylene
ETO	ethylene oxide
F	fluorine
FSP	fine suspended particulates
HBR	hydrogen bromide
HC	hydrocarbons

ABBREVIATION

HCL
HCN
HDM
HF
HG
HHD
H2O
H2S
H2SO4
MA
MC ACETATE
MEK
MG
MI KETONE
MMH
MN
MO
NAOH
NA2SO4
NH3
NH4
NH4CL
NI
NMHC
NMOC
NOX
NO2
N2O
PAH
PB
PCB
PCDF

POLLUTANT

hydrochloric acid
hydrogen cyanide
hexamethylene diisocyanate monomer
hydrogen fluoride
mercury
homopolymer of HDM (see above)
water
hydrogen sulfide
sulfuric acid
maleic anhydride
methyl cellusolve acetate
methyl ethyl ketone
magnesium
methyl isobutyl ketone
methyl hydrazine
manganese
molybdenum
sodium hydroxide
salt cake
ammonia
ammonium
ammonium chloride
nickel
nonmethane hydrocarbons
nonmethane organic carbon
nitrogen oxide
nitrogen dioxide
nitrous oxide
polynuclear aromatic hydrocarbons
lead
polychlorinated biphenyls
polychlorinated dibenzo furans

ABBREVIATION

PCNB

PM, PM10

POCL3

POHC

RHC

ROC

ROG

RSC

S

SB

SE

SN

SO2

SO3

TCDD

TCDF

TCE

TC-ETHANE

TICL4

TMT

TRS

U

UF4

V

VC

VCM

VE

VOC

ZN

ZRSO4

POLLUTANT

pentachloronitrobenzene herbicide

particulate matter

phosphorous oxychloride

principle organic hazardous constituents

reactive hydrocarbons

reactive organic compounds

reactive organic gases

reduced sulfur compounds

sulfur

antimony

selenium

tin

sulfur dioxide

sulfur trioxide

2,3,7,8-tetrachlorodibenzo-P-dioxin

tetrachlorodibenzo furan

trichloroethylene

1,1,1-trichloroethane

titanium tetrachloride

tetramethyl tin

total reduced sulfur

uranium

uranium tetrafluoride

vanadium

vinyl chloride

vinyl chloride monomer

visible emissions

volatile organic compounds

zinc

zirconium sulfates

APPENDIX B
DETAILED LISTING OF PROCESS TYPE CODES

PROCESS TYPE CODE LIST

No. CATEGORY

10.000 COMBUSTION

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

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

20.000 WASTE DISPOSAL

21.000 MUNICIPAL WASTE

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 HAZARDOUS WASTE

- 22.007 Asbestos Demolition, Renovation, and Disposal
- 22.001 Benzene Waste Treatment
- 22.006 Contaminated Soil 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)
- 22.999 Other Hazardous Waste Processing/Disposal Facilities

29.000 OTHER WASTE DISPOSAL (except 21 & 22)

- 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

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 41 & 42)

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

50.000 PETROLEUM/NATURAL GAS PRODUCTION AND REFINING

- 50.001 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 and 42.000 - Liquid Marketing)

60.000 CHEMICALS MANUFACTURING

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
61.012 Fertilizer Production (except 61.009)
61.009 Phosphate Fertilizers Production
61.010 Sodium Pentachlorophenate Production
61.011 Tordon Acid Production
61.999 Other Agricultural Chemical Manufacturing Sources

62.000 INORGANIC CHEMICALS MANUFACTURING

62.001 Ammonium Sulfate Production - Caprolactam By-Product Plants
62.002 Antimony Oxides Manufacturing
62.003 Chlorine Production
62.016 Chloroalkali Production
62.004 Chromium Chemicals Manufacturing
62.005 Cyanuric Chemicals Manufacturing
62.006 Fume Silica Production
62.007 Hydrochloric Acid Production
62.017 Hydrofluoric Acid Production
62.008 Hydrogen Cyanide Production
62.009 Hydrogen Fluoride Production
62.020 Inorganic Liquid/Gas Storage & Handling
62.014 Nitric Acid Plants
62.010 Phosphoric Acid Manufacturing
62.011 Quaternary Ammonium Compounds Production
62.018 Sodium Carbonate Production
62.012 Sodium Cyanide Production
62.015 Sulfuric Acid Plants
62.019 Sulfur Recovery (except 50.006)
62.013 Uranium Hexafluoride Production
62.999 Other Inorganic Chemical Manufacturing Sources

63.000 POLYMER AND RESIN PRODUCTION

63.001 Acetal Resins Production
63.002 Acrylonitrile-Butadiene-Styrene Production
63.003 Alkyd Resins Production
63.004 Amino Resins Production
63.005 Butadiene-Furfural Cotrimer (R-11)
63.006 Butyl Rubber Production
63.007 Carboxymethylcellulose Production
63.008 Cellophane Production
63.009 Cellulose Ethers Production
63.010 Epichlorohydrin Elastomers Production
63.011 Epoxy Resins Production
63.012 Ethylene-propylene Rubber Production
63.013 Flexible Polyurethane Foam Production
63.014 Hypalon (tm) Production
63.015 Maleic Copolymers 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
63.025 Polycarbonates Production
63.026 Polyester Resins Production
63.027 Polyether Polyols Production
63.028 Polyethylene Terephthalate Production
63.029 Polymerized Vinylidene Production
63.030 Polymethyl Methacrylate Resins Production
63.031 Polystyrene Production
63.032 Polysulfide Rubber Production
63.033 Polyvinyl Acetate Emulsions Production
63.034 Polyvinyl Alcohol Production
63.035 Polyvinyl Butyral Production
63.036 Polyvinyl Chloride and Copolymers Production
63.037 Reinforced Plastic Composites Production
63.038 Styrene-Acrylonitrile 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 (loading/unloading, filling, etc.)
- 64.005 Transfer of SOCMI Chemicals (loading/unloading, filling, etc.)
- 64.006 Wastewater Collection & Treatment
- 64.999 Other SOCMI Industry Sources

65.000 SYNTHETIC FIBERS PRODUCTION

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

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

- 69.001 Benzyltrimethylammonium Chloride Facilities
- 69.002 Butadiene Dimers Production
- 69.015 Carbon Black Manufacturing
- 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
- 69.008 Explosives Production
- 69.009 Hydrazine Production
- 69.010 OBPA/1,3-Diisocyanate Production
- 69.011 Pharmaceuticals Production
- 69.012 Photographic Chemicals Production
- 69.013 Phthalate Plasticizers Production
- 69.017 Propellant Manufacturing & Production
- 69.014 Rubber Chemicals Manufacturing
- 69.016 Soap & Detergent Manufacturing
- 69.999 Other Chemical Manufacturing Sources

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

- 70.016 Alcohol Fuel Production
- 70.008 Alcoholic Beverages Production
- 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)
- 70.009 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
- 70.999 Other Food and Agricultural Products Sources

80.000 METALLURGICAL INDUSTRY

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

82.000 NONFERROUS METALS INDUSTRY

- 82.016 Beryllium Processing and Manufacturing
- 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
82.999 Other Non-Ferrous Metals Industry Sources

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 and 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)
- 99.019 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

APPENDIX C

SUGGESTED PROCESS NAMES

SUGGESTED PROCESS NAMES

ABSORBER/ADSORPTION
AERATOR

BLASTING
BLOWER
BOILER (coal, oil, etc.)
BURNER

CARBON REGENERATION (activated)
CASTING MACHINE/PROCESS
CATALYST REGENERATION
CHEMICAL PRODUCTION/MANUFACTURING
CLEANER/CLEANING PROCESS
COATER/COATING APPLICATION (includes painting)
COGENERATION
COMBUSTOR/COMBUSTION UNIT
COMPRESSOR
CONDENSER/CONDENSATION UNIT
COOLER
COOLING TOWER
CRUSHER/CRUSHING PROCESS

DEGREASER/DEGREASING PROCESS
DEHYDRATOR/DEHYDRATION PROCESS
DIGESTER
DISTILLATION UNIT
DRYER/DRYING

ELECTROPLATING/PLATING PROCESS
ENGINE, DIESEL
ENGINE, GAS-FIRED
ENGINE, I.C.

ENGINE, MISC.
ENTIRE FACILITY (plant)
EQUIPMENT LEAKS
EVAPORATOR/EVAPORATION PROCESS

FLARE/FLARING
FUGITIVES/FUGITIVE EMISSIONS

FURNACE

GENERATOR/GENERATING UNIT
GRINDER/GRINDING PROCESS

HEATER
HYDRATOR

INCINERATOR/INCINERATION

KILN

LAMINATOR/LAMINATION PROCESS
MATERIAL APPLICATION
MATERIAL BLENDING
MATERIAL TRANSFER/HANDLING
MATERIAL STORAGE (active)
MATERIAL STORAGE (inactive)
MILL/MILLING PROCESS
MIXER/MIXING PROCESS

OVEN

PRINTING PRESS/PRINTING PROCESS
PUMP

REACTOR
REBOILER
RECOVERY UNIT
REGENERATOR
ROADS

SCREEN/SCREENING PROCESS
SCRUBBER/SCRUBBING PROCESS
SEPARATOR
SHREDDER/SHREDDING PROCESS
SPRAY BOOTH
STRIPPER/STRIPPING PROCESS
SYNTHETIC ORGANIC CHEMICAL MFG. PROCESS - MISC.

TURBINE, GAS-FIRED
TURBINE, OTHER

WASHER/WASHING PROCESS

APPENDIX D

**RBLC STANDARD EMISSION UNITS BY
PROCESS TYPE CODE**

**RBLC STANDARD EMISSION UNITS BY
PROCESS TYPE CODE**

Attached is a list of suggested emission units to be used when submitting information to the RBLC. In general, the emission units of processes not listed here should be in units related to the production output. Standardization of emission units would facilitate ranking of emission control requirements on a pollutant specific basis.

Clearinghouse Process Code / Name or Description	Pollutant	Suggested Emission Units
ALL All Processes with Emission Limits for Opacity or Visible Emissions	Visible Emissions	% Opacity
11.001 - 11.999 Electric Utility Steam Generators, Fossil Fuel-fired Steam Generators, Boilers, Furnaces, and Process Heaters	PM, PM10, PM2.5, VOC, SOx, NOx, CO, Pb	LB/MMBTU (see Note #1)
15.001 - 15.999 I. C. Engines Stationary Gas Turbines	NOx, SOx, CO, VOC NOx, SOx, CO, VOC	G/B-HP-H (see Note #1) PPM @ 15% O ₂ (see Note #1)
21.001 Municipal Waste Incinerators	Particulate Metals Gas	LB/MMBTU GR/DSCF @ 12% CO ₂ PPM @ 12% CO ₂ (see Note #1)
21.004 Sewage Sludge Incineration	Particulate	LB/T of dry sludge input
30.002 Kraft Pulp Mills - All Sources	HAP TRS	KG/MG PPM (see Note #1)
30.002 Kraft Pulp Mills - Recovery Furnace	Particulate	GR/DSCM @ 8% O ₂ (see Note #1)
Kraft Pulp Mills - Lime Kiln	Particulate	GR/DSCM @ 10% O ₂ (see Note #1)
Kraft Pulp Mills - Smelt Dissolving Tanks	Particulate	LB/T BLS (see Note #1)
Kraft Pulp Mills - Digesters, Brown Stock Washers, Evaporators, Oxidation, Stripping System	TRS	PPM (by volume) corr to 10% O ₂

Clearinghouse Process Code / Name or Description	Pollutant	Suggested Emission Units
41.002 Auto & Light Truck Surface Coating	VOC	LB/GAL applied coating solids
41.004 Can Surface Coating	VOC	LB/GAL applied coating solids
41.007 Flexible Vinyl & Urethane Coating and Printing	VOC	LB/LB ink solids
41.008 Large Appliance Surface Coating	VOC	LB/GAL of applied coating solids
41.011 Metal Coil Surface Coating	VOC	LB/GAL applied coating solids
41.012 Metal Furniture Surface Coating	VOC	LB/GAL applied coating solids
41.015 Plastic Parts for Business Machines Surface Coating	VOC	LB/GAL applied coating solids
41.018 Pressure Sensitive Tape & Label Surface Coating	VOC	LB/LB applied coating solids
41.019 - 41.023 Printing	VOC	% of total mass of VOC solvents & H ₂ O used
50.003 Petroleum Refining - Cracking	Particulate SO _x CO	LB/1000 LB % by volume
50.006 Petroleum Refining - Claus Sulfur Recovery Units	SO _x , TRS, H ₂ S	% by volume
50.999 Petroleum Refining - Flue Gas	SO _x	GR/DSCF (H ₂ S)
61.009 Phosphate Fertilizers Pdtn.	Total Fluoride	LB/T (see Note #1)
62.001 Ammonium Sulfate Pdtn.	Particulate	LB/T ammonium sulfate pdtn.
62.014 Nitric Acid Plants	NO _x	LB/T (see Note #1)
62.015 Sulfuric Acid Plants	SO ₂ & Acid Mist	LB/T (see Note #1)
65.001 - 65.999 Synthetic Fibers Production	VOC	LB/1000 LB solvent feed

Clearinghouse			Suggested
<u>Process Code</u>	<u>/ Name or Description</u>	<u>Pollutant</u>	<u>Emission Units</u>
70.007	Grain Elevators	Particulate	GR/DSCF (see Note #1)
81.003	Ferroalloy Production	Particulate CO	LB/MW-H 20% (volume basis)
81.004	Iron Foundries	Particulate	GR/DSCF
81.006	Steel Plants - Electric Arc	Particulate	GR/DSCF (see Note #1)
82.001	Lead Acid Battery Mfg.	Pb (Lead)	GR/DSCF or LB/T lead feed
82.005	Primary Aluminum Pdn.	Total Fluorides	LB/T
82.006	Primary Copper Smelters	Particulate	GR/DSCF (see Note #1)
82.007	Primary Lead Smelting	Particulate	GR/DSCF (see Note #1)
82.009	Primary Zinc Smelting	Particulate	GR/DSCF (see Note #1)
82.011	Sec. Brass & Brass Ingot Pdn.	Particulate	GR/DSCF (see Note #1)
82.013	Secondary Lead Smelting	Particulate	GR/DSCF (see Note #1)
90.004	Hot-Mix Asphalt Processing	Particulate	GR/DSCF
90.011	Coal Hand./Proc./Prep./Cleaning	Particulate	GR/DSCF (see Note #1)
90.016	Glass Mfg. Furnace	Particulate	LB/T (see Note #1)
90.019	Lime/Limestone Handling/Kilns/Storage/Mfg.	Particulate	LB/T
90.021	Metallic Mineral/Ore Processing	Particulate	GR/DSCF
90.024	Non-metallic Mineral Processing	Particulate	GR/DSCF
90.026	Phosphate Rock Processing		LB/T
90.028	Portland Cement Plants	Particulate	LB/T (see Note #1)
90.033	Wool Fiberglass Mfg.	Particulate	LB/T glass pulled
90.034	Asphalt Roofing Products Mfg.	Particulate	LB/1000 LB

Clearinghouse			Suggested
<u>Process Code</u>	<u>Name or Description</u>	<u>Pollutant</u>	<u>Emission Units</u>
99.015	Rubber Tire Mfg. Industry - Bead Cementing Operation	VOC	G/Bead/MO
	Rubber Tire Mfg. Industry - Tread End Cementing Operation, Inside Green Tire Spraying (Water Based), Outside Green Tire Spraying (Water Based)	VOC	G/Tire/MO
	Rubber Tire Mfg. Industry - All Other Sources	VOC	% Reduction

Note #1:

These units are required for reporting emission limits in the RBLC data base for these processes.

APPENDIX E

FORMAT FOR RACT/BACT/LAER CLEARINGHOUSE SUBMITTALS

AND INSTRUCTIONS FOR COMPLETING

RACT/BACT/LAER CLEARINGHOUSE INPUT FORM

FORMAT FOR RACT/BACT/LAER CLEARINGHOUSE SUBMITTALS

Information can be submitted to the RBLC in the following formats:

- Direct on-line submittal using RBLC Web.
- Paper input using the new Clearinghouse submittal forms (dated 7/2000).

The on-line submittal procedure is the preferred format. Designated users may obtain a password that allows them to access the RBLC data base Edit module on the Web. Users can add new determinations and make changes to current entries in the Clearinghouse. The only other data submittal option is filling out the new RBLC paper form (available for downloading in PDF format on the RBLC Web site). All inquiries concerning RBLC submittals should be directed to:

RACT/BACT/LAER Clearinghouse (MD-12)
Information Transfer & Program Integration Division
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

OR

The Clean Air Technology Center Information Line
(919) 541-0800, FAX (919) 541-0242

The RBLC Input Form is available for downloading from the Product Information section of the CATC home page. Designed to facilitate the input of determinations and corrections, the form can be used to prepare new determinations and/or to update existing information. For those who wish, the hardcopy (paper) submittal form can be mailed to the RBLC at the above address.

INSTRUCTIONS FOR COMPLETING RACT/BACT/LAER CLEARINGHOUSE INPUT FORM

1. **Company Name/Site Location:** Insert name and address of the proposed facility. The address should be the location of the proposed facility not the address of the parent company unless they are the same.
2. **Plant/Facility Contact Information:** The is a person knowledgeable about the process at the plant or facility being permitted. Enter the name, telephone numbers (voice and fax), e-mail address, and physical address of the plant contact. (A check box has been provided if the plant's and the plant contact's physical address are the same.)
3. **Permitting Agency Contact Information:** Indicate the person at the permitting agency to whom requests should be directed. This should be the person most capable of responding to factual questions concerning the source and processes subject to this permitting action. Please provide area code with the phone number, E-mail address, and conventional mail address.
4. **Physical Plant Location Information:** List the Universal Transverse Mercator (UTM) coordinates and UTM Zone of the facility being permitted. (This information is usually listed on United States Geological Survey (USGS) maps of the area where the facility is physically located.) The UTM coordinates are reported as Easting (X) and Northing (y). Easting indicate the horizontal or x coordinate within the UTM Zone for the source and Northing indicate the vertical or y coordinate within the UTM Zone for the source. The RBLC needs this information to determine proximity of the source to Class I areas (e.g., National Parks, Wilderness Areas, etc.). Please list the names of the Class One Areas within 100km of the source and Class One areas located within 100 to 250km of the source and their distance to the source.
5. **Permit/File Number:** This should be the identification number assigned by the agency that issued the permit.
6. **ID Numbers and Codes:** Fill-in the requested AIRS identification number, if available, and the SIC code.
7. **Scheduling Information:** Permitting scheduling dates stored include:
 - receipt of application (estimated or actual)
 - final permit issued (estimated or actual)
 - start-up operation (estimated or actual)
 - compliance verification (estimated or actual)

Please enter all of the scheduling information available.

8. **Plantwide Emissions/Emissions Increase Information:** Provide the name of each pollutant emitted in significant amounts and indicate the maximum amount of emissions (tons/year) that is anticipated for each pollutant (facility-wide, all processes) under this permit.

9. **Plantwide Information:** Please describe the facility being permitted. Descriptions should be summary and brief. Examples are as follows:

Plant Level - In brief terms, indicate what kind of plant this is; for example: Integrated Steel Plant, Primary Aluminum Production, Publication Printing, Coil Coating, Power Plant, Oil Refinery; Coffee Roasting; Wastewater Treatment Plant; etc. A detailed narrative about the plant is not needed.

Source Level - List major processes that are part of the permitted source; for example: boiler, turbine, coke oven, rotogravure printing press, solid waste incinerator, coating line, lead smelter, air oxidation process, volatile organic liquid storage, etc. A detailed narrative about the process is not needed.

Fuel Type - List all fuels that will be used at this facility; for example: coal, # 2 distillate oil, process gas, etc. Again, a detailed narrative about the fuels used is not necessary.

Pollution Abatement Strategy - List all major pollution prevention and control systems/devices that will be used to reduce or eliminate air pollution; for example: powder coatings, low sulfur fuel, electrostatic precipitator, carbon adsorption, etc.

10. **Facility Notes:** This section is for the completion or elaboration of any of the above items where space was a problem. Also, any information that you feel other agencies should know about this determination should appear here. Notes are typically used for the following:

- More than one permit number [See note under Permit Number.]
- More detail on a particular process
- More than one contact person
- Further explanation regarding the designation of a source as new or modified
- Further explanation of the emission limit or the support documentation associated with setting the limit (i.e., limit based on design or stack test)

11. **Process Description:** List all processes subject to this permit by name (e.g., kiln, boiler) for which a throughput limit, operating limit, emission limit, control strategy, performance

or equipment standard has been specified. Use additional pages as necessary. Additional information on a process may be placed in the Process Notes section.

Process name or process equipment should be listed using one of the process categories listed in Appendix C (Detailed Listing of Proposed Process Categories). A descriptor may be added behind the generic category name. For example,

Boiler, coal-fired, 3 each
Kiln, 3 each
Conveyors, coal/limestone
Furnace, arc
Boiler, recovery
Boiler, power
Engines, gas-fired

12. **Process Type Code:** A code assigned to each process (see Appendix B) used to categorize determinations.

[We really need this so please use the drop-down list. Do not use the codes that end in "000". The "000" code are category codes. Also, try and avoid using the codes that end in "999" as they are catch-all categories. If you do not enter an RBLC Process code, we will try to figure it out. If we can't, you will get a phone call.]

13. **SCC Code:** This code is the standard source classification for processes used throughout the Office of Air at EPA.

[We really need this so please use the drop-down list. If this is not listed, we will try to figure it out. If we can't, you will get a phone call.]

14. **Throughput Capacity:** Indicate the maximum design capacity of the unit. Use the same units of measure used in the NSPS to describe the size of a source. Wherever possible, use the list of standardized abbreviations for process and emission limit - Appendix D.

15. **Compliance Verification:** This series of fields allows you to enter a yes or no response to the following questions:

- Compliance verified?
- Method of confirmation:
 - Stack testing?
 - Other testing?
 - Inspection?
 - Calculations?

You may also enter a narrative description of other types of confirmation methods.

[If you leave this field blank, it defaults to “no” to indicate that compliance was not verified.]

16. **Process Notes:** This field should contain any additional information on the process being permitted.
17. **Pollutant(s) Emitted:** Make an entry for each pollutant or parameter for which a control requirement or other restraint has been specified (PM, SO₂, CO₂, NO₂, opacity, or others). Use a separate block for each entry, and identify the pollutant and provide its Chemical Abstracts (CAS) number. Use the following standard abbreviations for these common pollutants whenever possible:

PM	Particulate Matter
SO ₂	Sulfur Dioxide
NO ₂	Nitrogen Oxides
CO	Carbon Monoxide
VOC	Volatile Organic Compounds
VE	Visible Emissions
TRs	Total Reduced Sulfur
F	Fluoride
Be	Beryllium
H ₂ S	Hydrogen Sulfide
Hg	Mercury
VC	Vinyl Chloride

Abbreviations for other pollutants are listed in Appendix D, along with CAS numbers.

[Use the drop-down list. To quickly get to say “PM,” just type a “P.” This will move you down the list to the start of the P’s. We are working on cleaning up this list, but at this time many pollutants are listed more than once. The one to choose is the one that lists the pollutant name and it’s CAS number. For those pollutants that cover a range of pollutants (PM, PM10, NO_x, SO_x, VOC, opacity etc) the RBLC uses a custom CAS number. For example, these are the right drop-down entries in the Pollutant Name list to choose for the examples listed above: PM - “PM,PM”; PM10 - “PM10, PM”; NO_x - “NO_x, 10102”; SO_x - “SO_x, 7446”; VOC - “VOC, VOC”; opacity - “VE,VE”.

Do not choose a pollutant that is not in the “name, CAS#” format because it will have to be changed. If you cannot find the pollutant you need to list in the drop-down, please

send me an e-mail at <steigerwald.joe@epa.gov> and I will add it (along with it's CAS number) to the list.]

18. **Emission Limit(s)**: For consistency and ease of comparison, list the emission limit or rate in the units of measure listed in Appendix C or those used in AP-42. Wherever possible use the list of standard abbreviations (Appendix D).

There are multiple emission limits in the Clearinghouse, they are:

- Primary emission limit and units: The primary emission limit listed in the permit.
- Alternate emission limit and units: If provided on the permit, these numbers represent any alternate emission measurements which the facility may make.
- Standardized limit and units: This limit allows comparison with other similar determinations in the RBLC. Standard units are provided for certain process types (see Appendix D) so that users can compare the entries in this field to determine the most stringent limits.

The base-line limit is no longer used in the RBLC data base.

19. **Emission Type**: A one-character field indicating whether the emission is fugitive, point-source, or area-source.
20. **Pollution Reduction Ranking Information**: Two pieces of information are requested: The number of options examined and the rank of the option selected. The "rank" is the number of the option selected when the options are ordered according to the performance of the system. Number 1 would be the best controlled system, number 2 would be the next best, etc.
21. **Regulatory Requirements Associated with Limit (Basis of Limit)**: Indicate the regulatory requirement that precipitated establishing the limit presented, i.e., BACT-PSD, BACT-Other, LAER, MACT, RACT, GACT, NSPS, NESHAP, or Other. Do not list such items as stack test, design or others. These items generally represent the supporting information that may have been used to document or establish the given limit. Such items should be included in the notes section.

To facilitate the identification of limits use the following abbreviations:

- BACT-PSD (Prevention of Significant Deterioration)
- BACT-Other (regulated by state/local rules, not PSD)
- LAER (lowest Available Control Technology)

- MACT (Maximum Achievable Control Technology)
- RACT (Reasonably Available Control Technology)
- GACT (Generally Available Control Technology)
- NSPS (New source Performance Standards)
- NESHAP (National Emission Standards for Hazardous Air Pollutants)
- Other

22. **Pollution Reduction Method Description:** Describe the specific pollution prevention techniques and add-on equipment used to achieve the permitted emission limits. Specify "NONE" if no controls are feasible. Pollution prevention techniques include operational modifications, limits in the type and amount of raw materials used, limits on throughout or hours of operation, maintenance requirements, equipment specifications, or other limitations. Typical add-on equipment includes ESP, fabric filter, etc. Information in this section may be supplemented under the "Notes" section.

Please note that the RBLC no longer has separate fields for equipment manufacturer and model number. Place this information, if you have it, in the notes.

[Please note that if you specify "NONE" for this field and then enter something in the Description field, you will get a phone call asking you if you really meant to put "NONE."

23. **Overall Efficiency %:** Enter the overall system pollution reduction efficiency, consisting of capture (hoods, ductwork, etc.) and collection (control device) efficiency. Any breakdown of efficiencies for capture or collection individually should be shown under "Notes." For P2, indicate the overall effectiveness of the P2 methods.

24. **Cost Data:** Pollution reduction costs include:

- Year of the dollar used in cost calculations
- Cost verified by the permitting agency (yes or no)
- Cost effectiveness in dollars per ton (annualized cost/tons of pollutant removed)
- Capital cost of control equipment
- Annual operation and maintenance cost for all control methods
- Annualized cost (amortized capital cost + annual operation & maintenance costs)

When you have completed the form, mail it to the following address:

RACT/BACT/LAER CLEARINGHOUSE
 RBLC (MD-12)
 US EPA
 RTP, NC 27711

RACT/BACT/LAER CLEARINGHOUSE INPUT FORM

Date Submitted _____

Facility Information

Company/Plant Name: _____

Plant/Facility Contact Information:

check here if plant contact address is the same as the facility address

Plant Contact Name: _____

Telephone Number: _____ Fax: _____

E-Mail Address: _____

Facility Address: _____

City: _____

State: _____ County: _____ Zip Code: _____

Physical Plant Location Information : UTM Coordinates: X: _____ Y: _____ Zone: _____

Class One Areas Affected within 100km and/or 250km of source:

Source Name	Distance (km)		
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Public Hearing Held? Y N

Permitting Agency Contact Information:

Permitting Agency: _____ Address: _____

Agency Contact: _____

Telephone Number: _____ Fax: _____

E-Mail Address: _____ County: _____ State: _____ Zip Code: _____

The Source is: New Modified (circle one)

Permit Number: _____

AIRS Facility Number: _____

EPA ID Number: _____

SIC Code: _____

Scheduling Information: Date (circle one)

Received Application: _____ / _____ / _____ Estimated/Actual

Final Permit Issued: _____ / _____ / _____ Estimated/Actual

Start Up Operation: _____ / _____ / _____ Estimated/Actual

Compliance Verification: _____ / _____ / _____ Estimated/Actual

Source Name: _____

Permit Number: _____

PLANTWIDE INFORMATION

Facility Notes: _____

Plant Information - On this attached form, please include the following information on the facility being permitted:

Brief Plant Description/Narrative (for example - Chemical Plant, Steel Mill, Paint Manufacturing, etc.): _____

Brief Emission Source(s) Description (for example - boiler, paint spray booth, furnace, etc.): _____

Type(s) of Fuel Used at this Facility: _____

Description of the Pollution Abatement Strategy (for example - fabric filter, ESP, carbon adsorbers, powder coatings, etc.): _____

Plantwide Emissions/Emissions Increase Information (Rate After Control):

Pollutant:	Emissions (T/YR):
_____	_____
_____	_____
_____	_____
_____	_____

Pollutant:	Emissions (T/YR):
_____	_____
_____	_____
_____	_____
_____	_____

Pollutant:	Emissions (T/YR):
_____	_____
_____	_____
_____	_____
_____	_____

Source Name: _____

Permit Number: _____

Process Information

Process Name/Description: _____

RBLC Process Code: _____ SCC Code: _____

Throughput Capacity/Size: _____ Primary Fuel: _____

Compliance Verified?	Y	N	If so, By What Method? (circle those that apply):	Stack Test?	Y	N	Calculation?	Y	N
				Other Test?	Y	N	Inspection?	Y	N

Other Method? _____

Process Notes : _____

Pollutant Information

Pollutant Name: _____

Pollution Reduction Method Description:

CAS Number: _____

- Pollution Prevention (P2) Both P2 and Add-on
- Add-on Control Device No Controls Feasible

Pollution Prevention/Add-on Control Equipment Description: _____

Basis of Limit (circle one):	BACT-PSD	BACT-Other	LAER	MACT	GACT	RACT	NSPS	NESHAPS	OTHER
------------------------------	----------	------------	------	------	------	------	------	---------	-------

No. of Pollution Reduction Options Examined: _____ Overall % Efficiency of Control/ Prevention System: _____

Rank of Pollution Reduction Option Selected: _____ Emission Type? (circle one): area point fugitive

Emission Limits: Primary: _____ Alternative: _____

RBLC Standard Emission Limit (where applicable): _____

Pollution Control Cost Info:	Costs verified by Agency?	O & M Costs: _____	Annualized Costs: _____
	Yes No		

Capital Costs: _____	Costs are in _____ dollars.	Cost Effectiveness (\$/T of poll. removed): _____
	(year)	

