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USER'S MANUAL FOR THE RBLC DATA BASE

CLEAN AIR TECHNOLOGY CENTER

SPONSORED BY:

Information Transfer Group
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

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USER'S MANUAL FOR THE RBLC DATA BASE

Prepared by:

INDUS Corp.
1953 Gallows Road, Suite 300
Vienna, VA 22182

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Project Officer:

Bob Blaszczak
Information Transfer Group
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

Prepared for:

Clean Air Technology Center
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

DISCLAIMER

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PREFACE

This user's manual was prepared for and funded by the RACT/BACT/LAER Clearinghouse*, U.S. Environmental Protection Agency (EPA). The RBLC was established to assist State and local air pollution control personnel in making control technology determinations and in sharing technology information.

The Clean Air Technology Center (CATC) maintains a technology data base called the RACT/BACT/LAER Clearinghouse or RBLC. The RBLC provides data on prevention and control technology determinations made primarily by state and local permitting agencies. The Clearinghouse contains over 3,500 determinations that can help you identify appropriate technologies to mitigate or treat most air pollutant emission streams. The RBLC was designed to help permit applicants and reviewers 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 1,000 industrial processes.

The Clearinghouse also has a rule 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 rule data base also includes prevention and control technology cost information related to each rule and references to supporting documentation.

You can query the RBLC data on-line or download a stand-alone desktop version to run on your own personal computer (PC). You choose what you want to see by making selections in a user-friendly query routine or selecting search criteria. The result is a data set that you have created that can either be viewed, printed or downloaded to your PC. You are in control!

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* NOTE: Are you wondering what "RACT, BACT and LAER" stand for and why these acronyms are part of the Clearinghouse name? Well, they are acronyms for different program requirements required under the Clean Air Act which also gave us 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 is 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.

The CATC serves as a resource on all areas of emerging and existing air pollution prevention and control technologies, and provides public access to data and information on their use, effectiveness and cost. In addition, the CATC will provide technical support, including access to EPA's knowledge base, to government agencies and others, as resources allow, related to technical and economic feasibility, operation and maintenance of these technologies.

Data Resources

- **RACT/BACT/LAER Clearinghouse (RBLC) -**
  Query, view and download data you select on
  - Source Specific Technology Applications
  - Air Pollution Regulatory Requirements

- **CATC PRODUCTS -** download technical reports, cost information and software

Related Programs and Centers

- **CICA - U.S.-Mexico Border Information Center on Air Pollution /** ***Centro de Información sobre Contaminación de Aire***
- **SBAP - Small Business Assistance Program**
- **International Technology Transfer Center for Global Greenhouse Gases**

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Part 1 -- Introduction

Welcome to the RACT/BACT/LAER Clearinghouse (RBLC) data base. EPA established the RACT/BACT/LAER Clearinghouse to assist state and local air pollution control personnel in making control technology determinations and in sharing technology information. This user's manual describes how to use the RBLC data base to access this information.

The basic purposes of the RACT/BACT/LAER Clearinghouse are:

- To provide state and local agencies with current control technology determinations.
- To summarize recent determinations for sources of similar size and nature.
- To provide data on the specific emission limits imposed on existing, new, or modified sources across the country.
- To present summaries of recent federal air pollution regulations and offer a forum for state and local agencies to maintain similar information for their own rules.

By presenting a representative sample of control determinations, the Clearinghouse should serve as a reference or a starting point for state and local agencies when making RACT, BACT, or LAER determinations.

Initially, the RACT/BACT/LAER Clearinghouse was a manual system, and EPA regional offices and state and local agencies submitted summaries of their determinations to the Control Programs Development Division (CPDD). The CPDD then categorized the determination by source type or category and compiled and duplicated the determinations for periodic transmittal to the state and local agencies.

Discussions with state and local agency personnel, EPA regional staff, and representatives of the Association of Local Air Pollution Control Officials (ALAPCO) and the State and Territorial Air Pollution Program Administrators (STAPPA) resulted in the design of an automated system to provide up-to-date information regarding RACT, BACT, and LAER determinations. In accordance with this automated system design, the RACT/BACT/LAER Clearinghouse data base was created.

The RBLC data base system performs the following three functions:

- Allows rapid updating of RACT/BACT/LAER determinations.
- Allows rapid production of RACT/BACT/LAER Clearinghouse reports.
- Allows EPA regional offices and state and local agency representatives to have direct computer access to the data in the RACT/BACT/LAER Clearinghouse.

Regulatory Basis

The Clean Air Act (CAA) of 1970 gave the U.S. Environmental Protection Agency (EPA) the responsibility and authority to control air pollution in the United States and its territories. One of the responsibilities given to EPA under Section 108 of the CAA is to publish information on air pollution control techniques. This information includes data on available technology and methods for prevention and control of air pollution.

One of the goals of the CAA is regulation by states of their own sources of air pollution. Section 110 of the CAA requires each state to adopt and submit to EPA a State Implementation Plan (SIP) for attaining and maintaining the National Ambient Air Quality Standards (NAAQS) in all regions of the state. Each state, therefore, must decide which existing emission sources should be controlled and to what extent. Quite often this control for existing sources represents Reasonably Available Control Technology (RACT).

Section 111 of the CAA gives EPA the authority to establish performance standards for various emissions sources at a national level. These New Source Performance Standards (NSPS) apply to both new and modified sources; they must reflect the degree of emission reduction achievable through the application of the best system of continuous emission reduction as determined by the EPA Administrator. NSPS takes into consideration the cost of achieving such emission reduction, any non-air quality, health, and environmental impacts, and energy requirements.

The Clean Air Act Amendments of 1977 added to EPA's authority and responsibilities. The Amendments required that certain control technologies be imposed by the states. Section 165 allows no construction of major stationary sources in an area subject to the Prevention of Significant Air Quality Deterioration (PSD) requirements unless the source uses Best Available Control Technology (BACT). For these sources, BACT applies for each pollutant subject to regulation under the CAA. BACT applies to emissions resulting from any major source that the permitting authority determines (on a case-by-case basis) can achieve the limitation. The BACT limit takes energy, environmental, and economic impacts, as well as other costs, into account. NSPS is the baseline for BACT; in no event shall the application of BACT result in emissions of any pollutants in excess of the emissions allowed by any applicable NSPS.

Section 172 states that each SIP for an area that does not currently attain NAAQS must require, among other things, permits for the construction and operation of new or modified stationary sources. Before a permit to construct may be issued, the proposed new source must comply with the Lowest Achievable Emission Rate (LAER). LAER refers to the emission rate that reflects the most stringent emission limitation contained in any SIP for a source category (unless the source demonstrates that such limitations are not achievable) or the most stringent emission limitation achieved by a source in the source category, whichever is more stringent. LAER does not take economic factors into account. LAER should never be less stringent than the emission limit stipulated in an applicable NSPS for the source category.

Although the specific criteria governing RACT, BACT, LAER, or NSPS vary, the general underlying approach is to require "best control" on all major existing, new, or modified sources. The complexity and number of new source review (NSR) decisions has increased over the past several years, and more state and local programs are accepting the complete responsibility for issuing PSD and nonattainment permits. Thus, it is extremely important that information be available to assist control agencies in making the necessary control technology determinations in a nationally consistent manner. The Clean Air Act Amendments of 1990 made submittal of LAER to the RACT/BACT/LAER Clearinghouse Information System mandatory.

The RBLC Data Base

From 1986 to 1992, the RBLC data base was housed on the National Computer Center's IBM 3090 computer and used the System 2000 Software. In 1991 in response to a planned phase-out of System 2000, EPA began the task of choosing a new system to house the system. After reviewing various options (including mainframe, PC-based bulletin board, and hybrid options), EPA chose to move the RBLC data base to a PC-based bulletin board system (BBS). The RBLC data base has been part of EPA's Technology Transfer Network (TTN) BBS since October 1992. This data base offers interactive searching capabilities and also a data entry module for on-line inputting and editing by responsible agencies.

In late 1994, the RBLC added a data base of federal, state, and local regulations. A query module offers a menu-driven system for users to locate pertinent regulations for a particular pollutant or process or for a broad array of other criteria.

In 1996 EPA introduced a World Wide Web (WWW) version of its air quality BBS's so that users could access this information from their Internet connections. Much of the RBLC functionality of both the permit and regulation data bases became available on the WWW as of January 1998. The moves to the BBS in 1992 and to the WWW in 1998 made the RBLC accessible to more users. EPA also developed a desktop version of the RBLC data base during this period so that users can access the permit data base without the need for either a phone call or an Internet connection.

RBLC Features

The RBLC Web includes several ways to query the RBLC data bases. All query options are menu-driven. Users fill in a series of questions on an input form in order to build a search criteria, run a query, and view the results on screen. The options range from a simple form with one input field to find a specific identifier to more advanced forms that offer the use of on-line help and combinations of multiple search criteria for complex queries.

Users can view the results of a query on screen and download the results to their PCs. While viewing determinations on screen, users can remove any unwanted determinations from their download set. As users view information on screen, they will notice that the RBLC Web contains many fields which provide valuable information to permit writers. The view process also allows users to select the specific facilities, processes, and pollutants which they would like to see; users do not have to scroll through the entire set of selected determinations. Part 3 of this manual explains how to query the data base on the RBLC Web.

The RBLC BBS includes two different search processes. In the first process, a menu-driven search, users respond to a series of questions in order to design a search and view the results on screen. The second process, a more advanced search, is designed for the more sophisticated user. Users of the advanced search can design a search, recall and reselect subsets, and edit the search criteria on one screen.

Users can view the results of a search on screen and download the results to their PCS. While viewing determinations on screen, users can remove any unwanted determinations from their download set. As users view information on screen, they will notice that the RBLC BBS contains many fields which provide valuable information to permit writers. The view process also allows users to select the specific facilities, processes, and pollutants which they would like to see; users do not have to scroll through the entire set of selected determinations. Part 4 of this manual explains how to use the RBLC BBS to search the data base.

The Desktop RBLC offers the same search capabilities in a PC-based program. The application and data base can be downloaded from the RBLC on-line site and installed to run on a user's PC. Data bases for the Desktop RBLC are updated every quarter so that users can view recent submittals to the Clearinghouse.

Another notable RBLC BBS feature is the User Edit and Update. Before development of the RBLC BBS, only EPA Headquarters staff could add RACT, BACT, or LAER determinations. With the RBLC BBS, designated users now have the opportunity to input their agency's determinations directly. Each agency's designated users with update responsibility must obtain update authority and use a RBLC edit password in order to take advantage of this feature. Designated users have the choice of working online or locally when they add new determinations to the RBLC. With the standalone version of the edit feature, users can enter one or more determinations locally on their PCs and then upload an electronic version of the information to the

RBLC system operator for inclusion in the on-line data base. The standalone version eliminates any delays due to communications problems or a large number of users on the on-line system. It also saves the cost of a phone call.

These features, as well as other features planned for future development, are all explained in this manual. Users can also look on the RBLC on-line sites for information about new and planned features for the RBLC data base.

Gaining Access to the RBLC On-Line

The RBLC data base resides on the TTN and is accessible either on the World Wide Web (WWW) or on the RBLC bulletin board system (BBS). The WWW is the suggested method for accessing the capabilities to search the RBLC data base. The RBLC BBS will be maintained for a limited period of time and is primarily intended for those users who wish to update their RBLC determinations on-line.

To access the RBLC on the WWW you will need a PC, an Internet connection, and a browser. The RBLC on the WWW is available from the Clean Air Technology Center (CATC) home page located at: **www.epa.gov/ttn/catc/**. No account or password is required.

To access the RBLC BBS you will need a PC, modem, and phone line. If you wish to dial in to the BBS, you will also need communications software. For access via the Internet, you will need an Internet connection and a browser and Telnet client software. Additionally, you will need to register for the TTN. In order to register for the TTN, follow these steps:

- For BBS access, set communication parameters to 8 data bits, a parity of N, and 1 stop bit. Set terminal emulation to VT100, VT102, VT/ANSI, or ANSI. Call (919) 541-5742 for modems up to 14,400 bps.

- For Internet access, choose either of these two addresses:

  TELNET ttnbbs.rtpnc.epa.gov
  WWW www.epa.gov/ttn/

  If you access the RBLC via the WWW, you can still access the BBS via the Telnet site. Our web page includes a hyperlink to simplify this process for you.

- Go through the automated registration process and you will be a registered user.

See Appendix E for more information on the TTN.

If you are the agency's designated user with update responsibility, you will also need an RBLC edit password. To receive an edit password, call EPA at (919) 541-2736. The EPA staff person will assign you an RBLC edit password as well as your security clearance for inputting determinations.

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Part 2 -- Information in the RBLC Data Base

The primary product of the RACT/BACT/LAER Clearinghouse is a data base. The data base includes RACT, BACT, and LAER determinations made by and obtained from various pollution control agencies. The data base contains information on process types, the facility that applied for the construction permit, the basis for the limit (RACT, BACT, or LAER), pertinent source operating parameters such as capacity, pollutant emission rates, pollution prevention techniques, add-on control equipment or other technology, permitting agency contacts, and scheduling data.

Organization of RBLC Data

The RBLC data base contains information about a variety of data elements. This information is separated into three main categories: facility data, process data, and pollutant data. The data are organized so that each facility determination may have multiple processes and each process may emit multiple pollutants. Each facility has at least one process and at least one pollutant. The information that EPA maintains in the data base on each of the three levels (facility, process, and pollutant) is listed below. Together these files make up the RBLC permit data base.

Table 2.1 (beginning p. 2-6) details the format for each field mentioned below. The specific format listed is the format of the data base for the desktop application and the BBS. Some data elements in the WWW data base may have a slightly different format than that listed due to differences in the underlying data base engine. However, the content of each field is identical in all data bases.

1. Facility Information

- FACILITY NUMBER: A unique number given to each RBLC determination by the system. This numeric field is used only by the RBLC staff for tracking purposes and does not appear on-screen.

- RBLC ID: The unique identification number assigned to each RBLC determination by EPA staff. The number consists of the state abbreviation and a four digit number, i.e. AK-0001 is the first determination entered from Alaska. A suffix may exist for old determinations for clarification.

- COMPANY ADDRESS INFORMATION: The actual location of the facility including company (facility) name, street address, city, county, state, zip code, and EPA region.

- PERMIT/FILE NUMBER: A number which the permit issuing agency assigns the permit. If the permit is issued by the EPA regional office, this number would be the region file number.

- AGENCY INFORMATION: Four fields which provide information on the issuing agency. The first field is the agency name (automatically assigned based on the agency code); the second is the agency code (see Appendix A). The third and fourth fields provide a name and phone number for permitting personnel to use if they have questions regarding the determination.

- NOTES: This field allows the user to include explanatory information about the determination which he or she enters into the RBLC data base.

- LAST UPDATE: A field which allows users to see when the last changes were made to each determination.

- ENTRY DATE: Date that the determination was first entered into the RBLC permanent data base.

- SIC CODE: This code is the standard industrial classification for facilities used throughout the Office of Air and Radiation (OAR) at EPA. A list of valid SIC codes is available via on-line help or can be downloaded from the RBLC BBS.

- AIRS ID: An AIRS ID number is assigned to each facility in the country. AIRS is EPA's Aerometric Information Retrieval System, a national data base for ambient air quality, emissions, and compliance data. The AIRS ID number is usually assigned by someone within the state or local agency assembling the permit but may also be assigned by an EPA Regional contact.

- SCHEDULING INFORMATION: Permitting scheduling dates stored in the system are the following:

  * application receipt date
  * permit issuance date
  * start-up date
  * compliance verification date

  The RBLC data base includes a character field for each of the above dates that indicates whether the date is estimated or an actual date.

2. Process Information

- PROCESS NUMBER: A unique number given to each RBLC determination process by the system. This numeric field is used only by the RBLC staff for tracking purposes and does not appear on-screen.

- PROCESS DESCRIPTION: The name of the process which describes the process listed (examples in Appendix B).

- PROCESS TYPE CODE: A code assigned to each process (see Appendix B) used to categorize determinations.

- THROUGHPUT CAPACITY AND UNITS: For each process listed in a determination, the RBLC data base contains information of the throughput capacity of the process unit, i.e. boiler size is often specified using a throughput capacity measured in MMBTU per hour.

- PRIMARY FUEL: The type of primary fuel used by this process.

- SCC CODE: This code is the standard source classification for processes used throughout the Office of Air and Radiation (OAR) at EPA. A list of valid SCC codes can be downloaded from the RBLC BBS.

- COMPLIANCE VERIFICATION: This series of fields allows users to enter a yes or no response to the following questions:

  * Compliance verified?
  * Method of confirmation
    - Stack testing?
    - Inspections?
    - Calculations?
    - Other testing?

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

3. Pollutant Information

- POLLUTANT NUMBER: A unique number given to each RBLC determination pollutant by the system. This numeric field is used only by the RBLC staff for tracking purposes and does not appear on-screen.

- POLLUTANT NAME: The name of the pollutant being controlled.

- CAS NUMBER: The Chemical Abstract Service number which represents each individual pollutant in the determination.

- PRIMARY EMISSION LIMIT AND UNITS: The primary emission limit listed in the permit.

- ALTERNATIVE EMISSION LIMIT AND UNITS: If provided on the permit, these numbers represent any alternative emission measurements which the facility may make.

- RBLC STANDARDIZED EMISSION LIMIT AND UNITS: This limit allows comparison with other similar determinations in the data base. If standard units are provided for the process type in which the user is searching (see Appendix C), users can compare the entries in this field to determine the most stringent limits.

- BASIS FOR LIMIT: The statutory basis for the pollutant limit. The choices which may be entered into the RBLC data base are:

  * BACT-PSD -- Prevention of Significant Deterioration
  * BACT-OTHER -- Other BACT (i.e. T-BACT, Toxics-BACT, etc.)
  * Lowest Available Control Technology (LAER)
  * Maximum Achievable Control Technology (MACT)
  * Reasonably Available Control Technology (RACT)
  * Generally Available Control Technology (GACT)
  * New Source Performance Standards (NSPS)
  * National Emission Standards for Hazardous Air Pollutants (NESHAP)
  * Other

- CONTROL METHOD CODE: A one-character fields indicating what method was used to achieve the emission limits. The choices which may be entered are:

  * P -- Pollution prevention techniques, e.g., any required process modification, change in raw material, or management practice designed to decrease or prevent pollutant emissions.
  * A -- Add-on control equipment.
  * B -- Both pollution prevention and add-on equipment.
  * N -- No feasible controls.

- CONTROL METHOD DESCRIPTION: A description of the specific pollution prevention and/or add-on control equipment used to meet the emission limits of the permit.

- TYPE OF EMISSION CONTROLLED: A one-character field indicating whether the emission is fugitive, point-source, or area-source.

- OVERALL EFFICIENCY: The design efficiency expected from a particular type of control equipment or method. This figure is expressed as a percentage.

- CONTROL TECHNOLOGY RANKING DATA: The ranking of the control technology chosen, when ranked according to the level of control. Information includes the number of options considered and the rank of the option selected.

- COST DATA: Control costs contained include:

    * Capital cost of control equipment
    * Annual operation and maintenance cost of control equipment
    * Annualized cost
    * Cost effectiveness in dollars per ton
    * Cost verified by the permitting agency (yes or no)
    * Year of the dollar used in cost calculations

Current and Historical Data

The RBLC data base stores determinations based upon the date that a determination was entered in the RBLC. The current data base contains completed RBLC determinations submitted since June 1991. These determinations have been reviewed by RBLC staff to ensure that the data are complete and correct. The transient data base provides a work space for users to enter and update determinations. Transient data base determinations could include determinations for permits which are not yet issued (still in the review stages), determinations which have necessary information still missing, or determinations which have not been verified for corrections and completion by the RBLC staff. The historical data base contains completed RBLC determinations that were added before June 1991. The historical data base itself is further divided to keep the search time reasonable.

The RBLC offers a separate data base for information on federal and state regulations. Details about this data base are described later in this manual.

TABLE 2.1
NAMES AND CHARACTERISTICS OF RBLC DATA FIELDS

FIELD NAME	TYPE OF FIELD	SIZE OF FIELD
FACILITY LEVEL INFORMATION		
Flag	Character	1
Facility number	Numeric	12
RBLC ID	Character (i.e. AK-0001)	7
Suffix	Character	2
Company (facility) name	Character	50
Street address	Character	30
City	Character	30
County	Character	30
State	Character	2
Zip code	Character	10
EPA Region	Numeric	2
Permit issuance date	Date (XX/XX/XXXX)	8
Permit date estimated/actual flag	Character	3
Permit/file number	Character	30
Permitting agency code	Character	5
Name of agency contact	Character	30
Contact phone number	Character	14
Notes (10 fields)	Character	75 (each)
AIRS ID	Character	20
SIC code	Character	10
Date of receipt of appl.	Date (XX/XX/XXXX)	8
Date of receipt estimated/actual flag	Character	3
Start-up date	Date (XX/XX/XXXX)	8
Start-up date estimated/actual flag	Character	3
Date of compliance verif.	Date (XX/XX/XXXX)	8
Date of verif. estimated/actual flag	Character	3
Date of entry to RBLC	Date (XX/XX/XXXX)	8
Date of last update	Date (XX/XX/XXXX)	8
PROCESS LEVEL INFORMATION		
Process number	Numeric	3
Process description	Character	50
Process type code	Numeric	6
SCC code	Character	20
Primary fuel	Character	20

FIELD NAME	TYPE OF FIELD	SIZE OF FIELD
Throughput capacity	Numeric	13
Throughput capacity units	Character	20
Compliance verification	Logical	1
Stack test	Logical	1
Inspection	Logical	1
Calculated	Logical	1
Other test	Logical	1
Other method description	Character	20
Process/compliance notes (3 fields)	Character	75 (each)
POLLUTANT LEVEL INFORMATION		
Pollutant number	Numeric	3
Pollutant name	Character	20
CAS number	Character	10
Basis for limit	Character	12
Primary emission limit	Numeric	13
Primary emission unit	Character	20
Alternate emission limit	Numeric	13
Alternate emission unit	Character	20
Standardized emission limit	Numeric	13
Standardized emission unit	Character	20
Control method code	Character	1
Control method description	Character	150
Design percent efficiency	Numeric	7
Number of options reviewed	Numeric	2
Rank of option chosen	Numeric	2
Capital cost of equipment	Numeric	10
Operations and maintenance cost	Numeric	10
Annualized cost	Numeric	10
Cost effectiveness	Numeric	10
Cost verified by agency	Logical	1
Year of dollar for cost calculations	Character	4
Emission type	Character	1

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Part 3 -- Querying the RBLC Web Data Base

The RBLC data base is searchable directly from the WWW, without any user registration. You may choose from several query options, depending on what type of information you are looking for. Once you have the necessary hardware, software, and communications setup (a PC, browser software, and direct or dial up Internet access), you can access the RBLC Web as follows:

- Connect to the Internet and start your web browser.
- Point your browser to the CATC home page: **www.epa.gov/ttn/catc/**.
- Navigate to the RBLC home page, and follow the instructions on your screen.

RBLC Home Page

The RBLC home page (see Figure 3.1) gives you access to the RBLC data bases, as well as other technical information relating to air emissions control. Make your selection by clicking on the appropriate link. In addition to options for accessing the RBLC data base (which are described later in this section), choose from among the following:

- **Welcome to RBLC** presents an overview of the RBLC and brief descriptions of how to use the RBLC data base.
- **What's New** highlights items recently added or updated on the RBLC web site.
- **RBLC Data Entry** links you to the RBLC BBS (via Telnet), where authorized users can log in to add or update control technology determinations for their state or local agency.
- **RBLC Software** contains the standalone editor and desktop viewer for RBLC control technology determinations, both of which can be downloaded for use on a local PC.
- **RBLC Documents** lists standard downloadable files available on the RBLC web site. These files include published documents like recent RBLC annual supplements, the RBLC Handbook, and this RBLC User's Manual. Also available for downloading are tables, instructions, and other technical information related to using the RBLC data base.

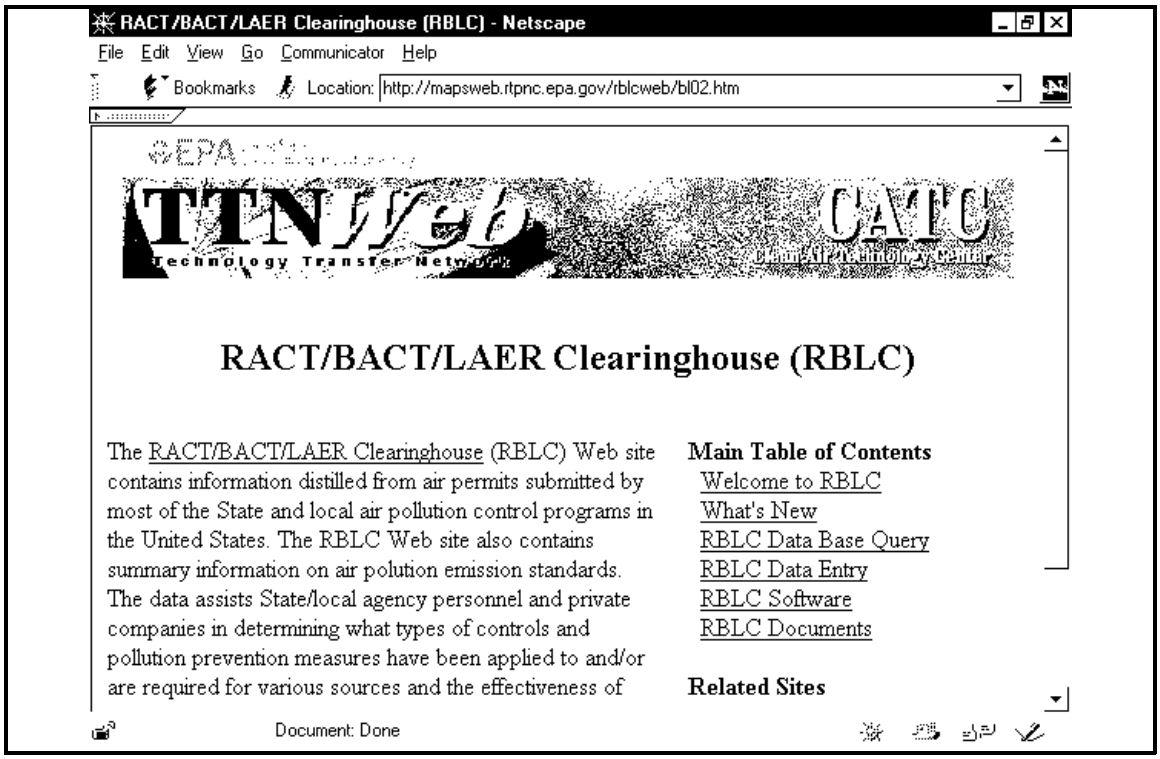

Figure 3.1 -- RBLC Web Home Page

For your convenience, the RBLC home page also includes links to other related EPA web sites. The "OAR Policy & Guidance" site contains rules and supporting documentation for federal standards enacted under the Clean Air Act Amendments. The "New Source Review" (NSR) site contains technical information for personnel involved in conducting NSR and related permitting activities. For a complete view of the technical information offered on the TTN, click on the "TTN Home" link at the bottom of the RBLC page.

For further information, call the CATC Info Line, (919) 541-0800.

Query Options

The RBLC permit data base contains information about recent control technology determinations submitted by state and local agencies. The regulation data base, which was added to the RBLC in November 1994, includes information about federal and state regulations governing air pollutant emissions. To query the RBLC data bases, click on "RBLC Data Base Query" from the RBLC home page. From the data base query page, you may view on-line help for the query options, perform a query on either the permit or the regulation data base, or link to additional resources. This section of the manual describes how to query the permit data base. Refer to the section about the regulation data base later in this manual or to the on-line help for additional information about the Federal/State Regulations data base.

The RBLC Web supports most queries that are likely to be of interest to the general user. However, some advanced users may require features not available on the RBLC Web, such as the multiple pollutant search. In such cases, users are encouraged to download and install the RBLC desktop viewer and run the query locally. Users can also access the RBLC BBS, which contains all the features originally programmed for it.

Note that the on-line HELP system for the RBLC query options provides assistance at any point during a query. Simply click on the question mark icon at the top of the page to access a HELP file that explains the screen you are currently viewing. HELP is context-sensitive. You will not have to scroll through long lists of inappropriate values in order to find the one you need. The entire HELP system, with a table of contents, is also available from the RBLC query page.

Choose one of the options under "Permit Data Base Queries" to locate information of interest in the permit data base. Then, to continue in RBLC interactive query mode, simply follow the directions on the screen, making your choices by entering text and clicking buttons. The RBLC Web offers the following query options:

- **Query by RBLC ID**: quickly find up to three determinations if you know the appropriate RBLC identifier (RBLC ID).

- **Query by Process Type**: locate determinations that include a particular source or process. This option is most similar to the BBS Browse option.

- **Standard Query**: build a search criteria by choosing from facility, process, and pollutant properties. Where appropriate, pick lists of allowable values are provided. This option is most similar to the standard query option in the BBS Query module.

- **Advanced Query**: choose from pick lists of data elements and enter desired values to build a search criteria. Criteria can be combined for more selective queries. In general, you should know what each data element contains to use this option effectively. This option is most similar to the advanced query option in the BBS Query module.

Choose the option that most closely matches what you are looking for. All RBLC query options present an overview of your query results in a table that allows you to examine details about matching facilities, their processes, and pollutants. Each option also supports saving your results in any of the RBLC standard output formats. Feel free to back up, respecify your search criteria, and run another query after you have examined your results. You can even click on the link at the bottom of every results page to return to the RBLC Query page, and choose another query option. Of course, if your query is not successful, you should back up and respecify your search criteria. Make sure that you have not misspelled a word or entered an invalid value for the particular element you are querying on.

How To Run a Query

A query allows the user to access just a part of the data base. Once the query has located a result set, entries in the set may be viewed on-line or downloaded as a report file. The specific part of the data base found by a query is defined by a search criteria that the user enters. A search criteria consists of one or more data elements on which to query and appropriate values to be matched for each data element of the search criteria. On the RBLC Web, you specify a search criteria by completing an input form in your browser and then clicking a button to run the query. RBLC query options use the following input objects for you to specify your search criteria:

- **Selection list**: a drop-down list of allowable values. Click on the down arrow at the right of the box to reveal the list of choices, scroll through the list until your selection is highlighted, and click the selection. Scroll bars appear for long lists, or you can type a character to quickly move to list entries that begin with that character (sorted lists only).

- **Text box**: an area in which you type a value for the data element you wish to match. Type lowercase or uppercase letters or numbers, being careful to enter a value that is appropriate for that data element.

- **Radio buttons**: a set of selections from which you must make one and only one choice. Click the button next to your choice. The selected button usually appears filled in or pressed down. If you change your selection, the previously selected button is cleared.

- **Reset button**: clears any selections you have made on the form, and presents you with a copy of the form as it appeared when you first loaded the page.

- **Submit button**: initiates the action for the current page. These buttons are usually labeled “Run” or “Continue”.

Except for “Query by ID”, the RBLC query options require you to select an RBLC data base based on the date entries were first added to the RBLC. The choices are presented in a selection list, with the most recent permits preselected for matching against your search criteria. If you want to look at other permits, choose one of the other data bases. The choices are:

- **Determinations under review**: the most recent information in the RBLC. These determinations are still under review and may not contain values in all data fields.

- **Determinations added since June 1991**: recent information in the RBLC that has been reviewed and approved for inclusion in the permit data base by RBLC staff. Most of them will contain values for all key fields, such as CAS number or SIC code.

- **Determinations from June 1985 to May 1991**: older determinations. These entries may not contain values in all the data fields, particularly those fields added to the data base when the RBLC was restructured in mid-1992.

- **Determinations before June 1985**: older determinations. These entries may not contain values in all the data fields, particularly those fields recently added to the data base.

The format and layout of the input pages for each of the RBLC query options are discussed below.

Query by RBLC Identifier

If you know the RBLC identifier (RBLC ID) for the determination you are interested in, this option is the fastest way to find a permit in the RBLC data base. As shown in Figure 3.2, the query by ID page requires only one input -- the RBLC ID -- before you click the run button. Up to three RBLC identifiers can be located in a single query, if you like. This query option will find all valid RBLC IDS, regardless of when the permit was added to the data base. You don't have to worry about selecting a data base.

The correct format of an RBLC ID is **AA-nnnn**, where **AA** is the 2-letter state abbreviation and **nnnn** is a 4-digit number that uniquely identifies the permit. Some older permits use a single letter suffix (e.g., CA-0001.A) to further distinguish among related determinations. Use either lowercase or uppercase letters when specifying the RBLC ID for your search criteria. The system automatically converts your input to the correct case.

Query by Process Type

If you are looking for general information about a particular type of process, such as natural gas combustion turbines or rotogravure printing, the Query by Process Type option is usually a good place to start. Numeric process type codes are the primary method of classifying source categories in the RBLC data base. Appendix B contains a complete listing of the process codes used in the RBLC.

This option has two steps. In the first step (shown in Figure 3.3), you select a broad process category by clicking on the down arrow in the main process category drop-down selection list. Scroll to the desired major category, highlight it, and click on the selected list item. Click the Next Step button to continue.

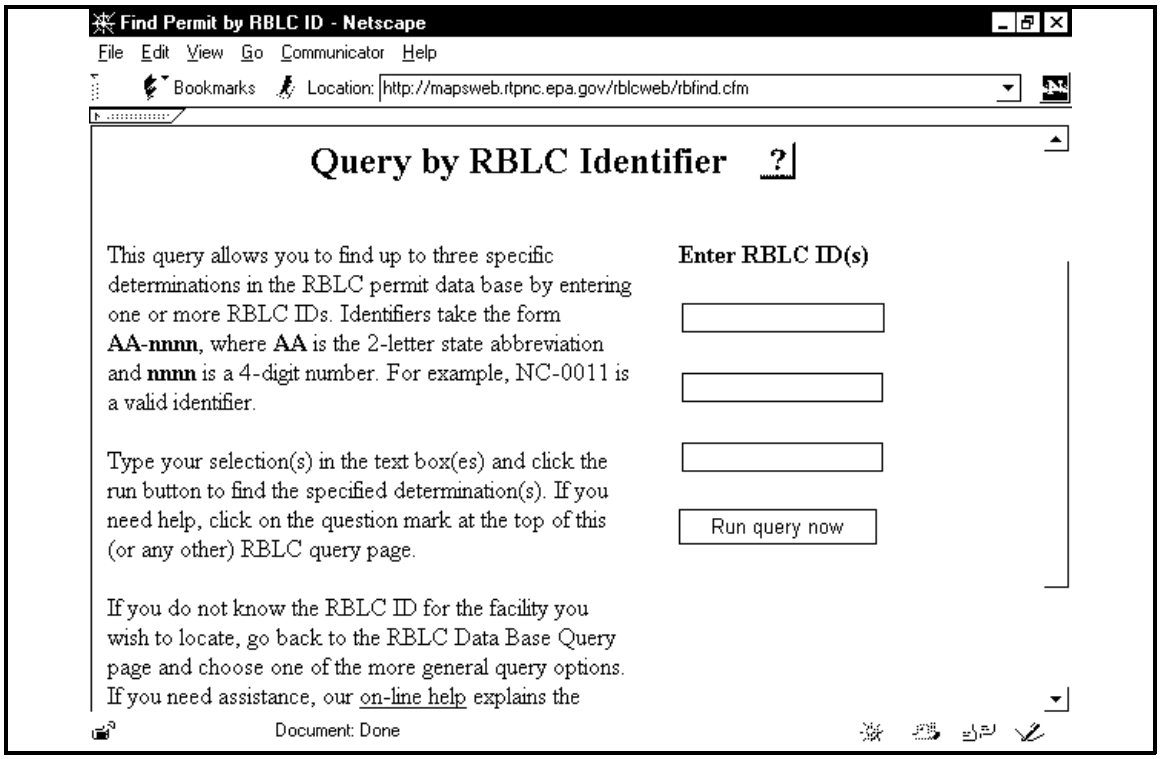

Figure 3.2 -- Query by RBLC Identifier

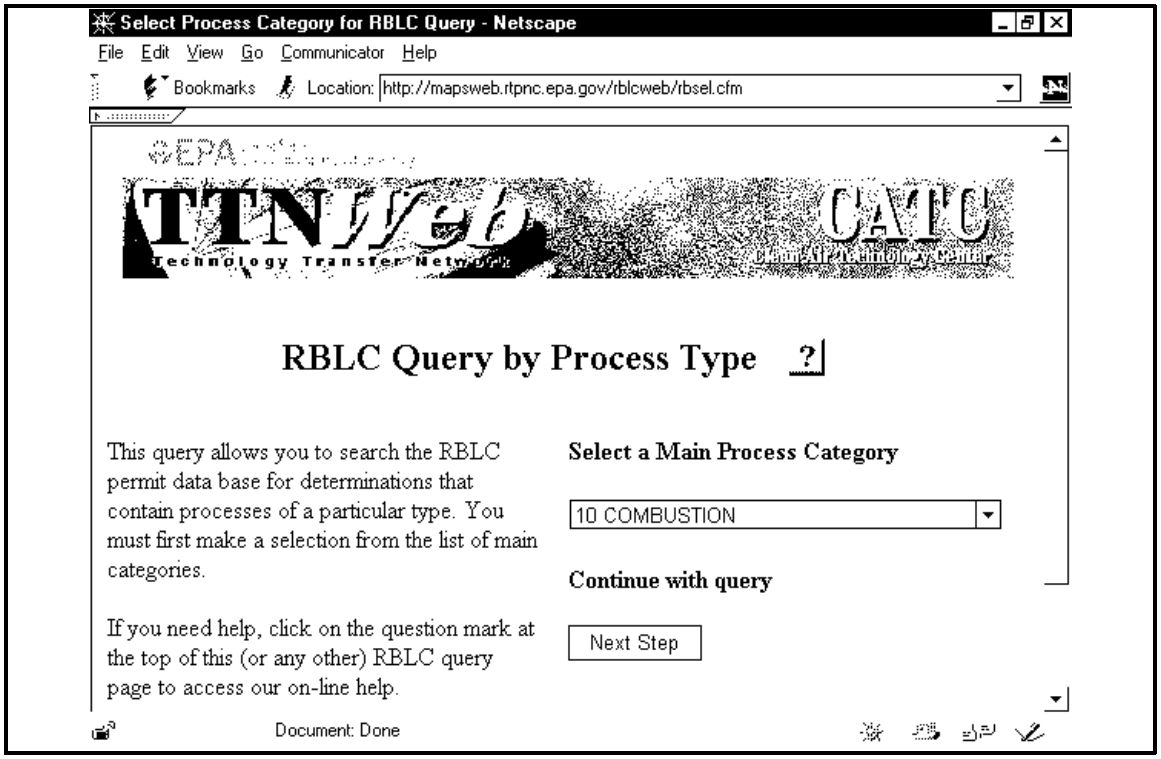

Figure 3.3 -- Query by Process Type Step One

The second page for the Query by Process Type option is shown in Figure 3.4. You can change the data base selection, if you like. The next drop-down selection list on this page includes a list of specific process type codes; choose one. The contents of the list depend on your earlier selection of a major category. To find all of the subcategories in a major process category, choose the first item in the list (the .000 code). For example, searching for process type 11.000 finds all external combustion processes from 11.001 to 11.999. Because this type of query may find a large number of matching records, try to select a specific process code to refine your query, if possible. If you do not see the process you are interested in, use your browser to back up and select another main process category. You could also try the standard or advanced query options to query on the name of the process you are interested in.

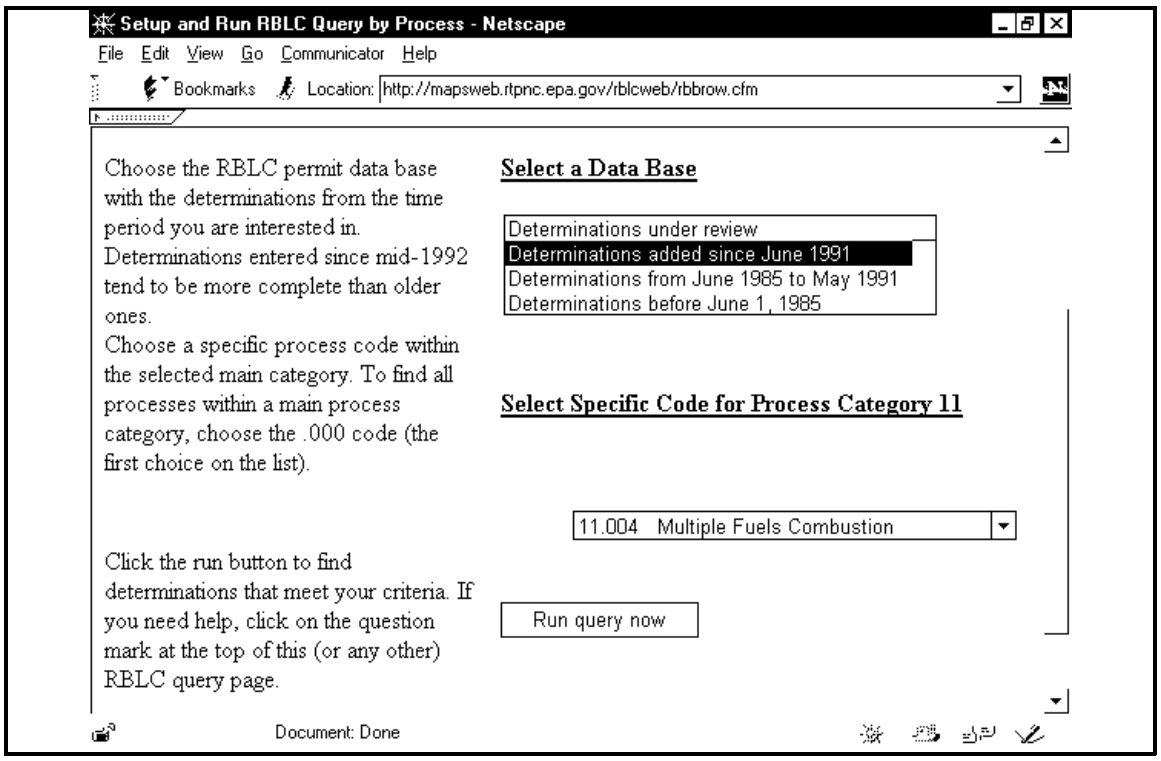

Figure 3.4 -- Second Page for Query by Process Type

After you have selected a data base and a process type code, click the Run button to execute your query. The results of your query are displayed in a table, sorted by facility name. To examine the results of your query, click on one of the RBLC IDs. View the information for a facility, and select from the links shown on each screen to view processes and pollutants. The section Viewing Query Results later in this chapter illustrates how to do this. If you wish to download any of the information to your local PC, see the section Downloading Information to Your PC later in this chapter.

Standard Query

The standard query option gives you more flexibility in examining the permit data base. It allows queries on data fields other than process type (state or pollutant for example), and it supports combining data fields for more selective queries. You make your selections by choosing from pick lists, clicking on radio buttons, and entering values in text boxes. When the data value must be one of a particular set of choices, these choices are presented in a pick list.

The initial part of the Standard Query option is shown in Figure 3.5. Links to groups of related RBLC data fields appear at the right of the page, just below the title. Browse through the page to the properties you want to query on. You specify search criteria for the standard query by filling out the appropriate sections of the form. You can combine groups, selecting one or more data elements from the available groups. Simply ignore groups that are not of interest to you.

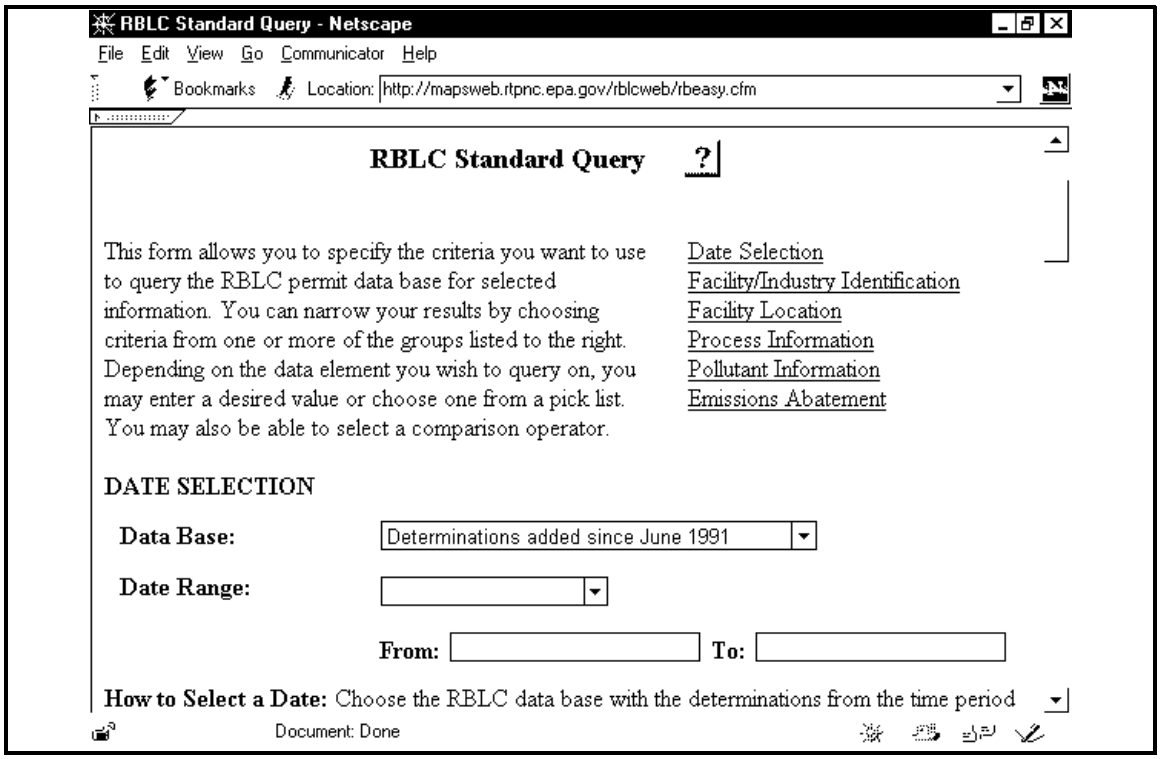

Figure 3.5 -- Initial Part of Standard Query Page

Figure 3.6 shows part of the standard query input form for the facility/industry identifier section. Names of the data elements appear on the left of the screen, with the area for you to input the value you wish to match appearing on the right. A brief explanation of each group of data elements appears below the input section. The figure illustrates the different types of inputs accepted by the standard query.

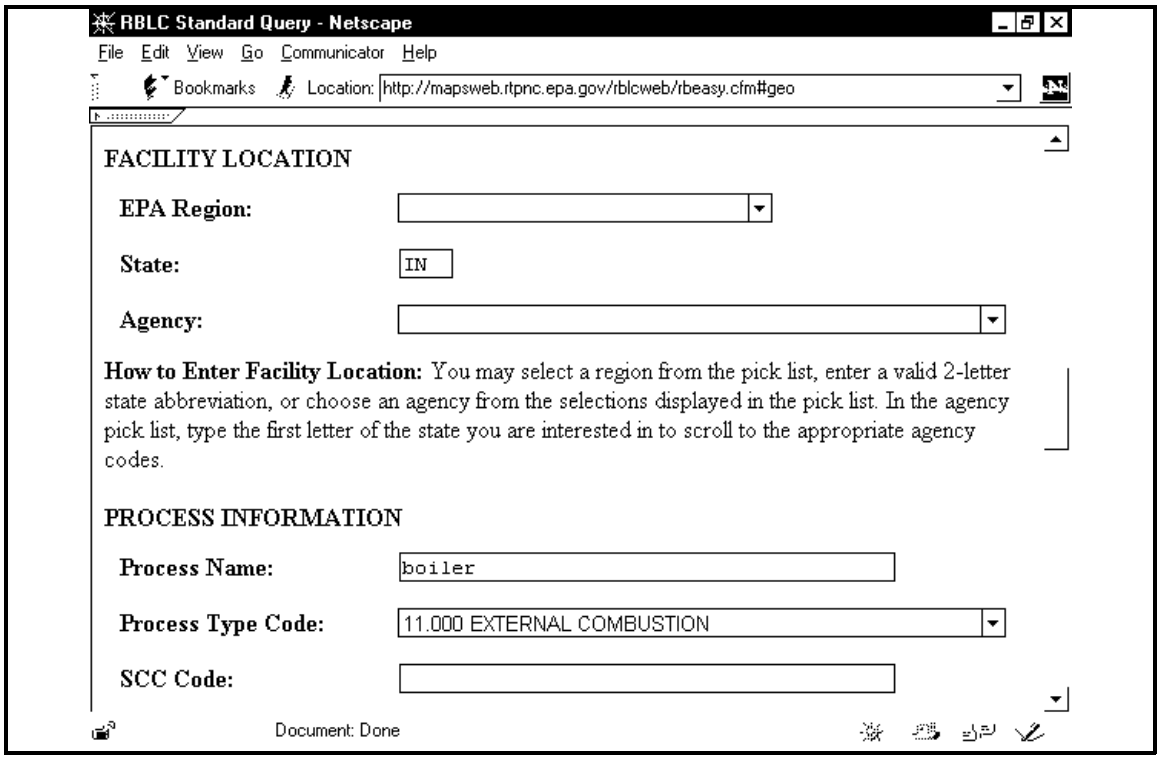

Figure 3.6 -- Facility/Industry Identification Section of Standard Query

Your search criteria is used to query the data base for records whose data element matches the value you specified. Some data elements can be matched in one of several ways. For these elements, you can choose a comparison operator from the set of operators presented on the query form. For numbers, the allowable operators are equals, greater than, or less than. Operators for alphanumeric fields allow you to match any part of the data, match the beginning characters only, or specify an exact match of every character.

More than one search criteria section can be filled out for the standard query. Try to select enough criteria to match a manageable number of records, without being so restrictive that the query finds no matches or being so complex that the query takes a long time to run. Usually, two to three criteria work well. Be sure not to specify mutually exclusive criteria. The following groups of data elements can be queried by the RBLC standard query:

Dates

- Choose an RBLC database.
- Choose an additional date element from the date range pick list:
    - Date added to RBLC
    - Date last modified
    - Date permit issued

Enter a from date and/or a to date. Your query will find dates greater than or equal to the from date and less than or equal to the to date.

The RBLC Web is flexible about the format of dates. You may enter dates in a numeric mm/dd/yyyy format or spell out the month, such as 'Jan 1, 1998'. If the system cannot recognize your date, you will be prompted to go back and enter another date value.

Facility or Industry Identifiers

- Select a facility identifier from the pick list (see below) and enter the appropriate value to match.

  - Facility name
  - RBLC Identifier (RBLC ID)
  - Permit number

- Choose from the pick list of SIC codes to retrieve a broad set of facilities in a particular industry. Many older permits were added to the data base without a SIC code, so your query may not find all matching records. A list of SIC codes can be downloaded from the RBLC documents section, available from the RBLC home page.

You can enter a complete or partial facility name to locate one company or a list of facilities owned and operated by a particular company. Enter an RBLC ID or permit number to locate one specific determination. Every permitting agency uses its own format for permit numbers. Unless you are quite sure of the permit number, it may be difficult to match a permit number. Try using a more general search criteria, and make a note of the RBLC ID so you can quickly locate the permit in the future.

When querying on a facility identifier, you can choose how closely you want to match your desired value. Choose one of the following comparison operators:

- **Containing** performs a word search and matches all facilities that contain the specified value anywhere in the facility name data element.
- **Beginning with** finds only those facilities whose facility name data element begins with the value you specified.
- **Exact match** is the most restrictive operator and requires a character by character match between the value you specified and the facility data element.

When your search criteria is the RBLC ID, your query will run faster if you use the exact match operator. To query on permit number or facility name, choose the operator that best suits your purpose. For example, by specifying **THE PA** as the value to match using the beginning with operator, your result set will include "THE PAPER CLIP FACTORY," "THE PA ELECTRIC

PROJECT," and "THE PASTRY SHOP," but not "PASTEURIZATION INC." Using the exact match operator would probably give you an empty result set. Specifying **PA** as the value to match with contains operator would find all of these facilities, plus names such as "PRINCIPAL REPAIRS" and "CONSOLIDATED PAVERS." If you are not sure, use the containing operator and type in just a partial name. You can always rerun the query with a more exact spelling after you locate the permit you need.

Facility Location

- Select the EPA Region in which facilities are located.
- Enter a state abbreviation.
- Choose a state or local permitting agency from the list provided. Enter the first letter of the state you are interested in to scroll to the appropriate agency codes. Appendix A lists all agency codes used in the RBLC.

Process Information

- Enter a partial or complete process name. This search criterion automatically uses the containing operator and works especially well when combined with one of the other process data elements. Appendix D lists common process names used in the RBLC.
- Choose from the list of process type codes. Enter a number between 1 and 9 to scroll to that part of the process code list. Appendix B lists all process codes used in the RBLC.
- Enter a SCC code. Many older permits were added to the data base without a SCC code, so your query may not find all matching records. A list of SCC codes can be downloaded from the RBLC Documents section, available from the RBLC home page.

Pollutant Information

- Specify a pollutant name. Choose from one of the criteria pollutants in the pick list, or choose ‘Specify other’ and type the pollutant name you desire. The RBLC standard is to use the chemical abbreviation for a pollutant, for example ‘CO’ for carbon monoxide.
- Enter a CAS number. This is the recommended method for finding a specific pollutant because it accounts for any variations in pollutant names.
- Choose from the list of available emission types. This selection works best when used in combination with other criteria because it matches a large number of data base entries.

Emissions Abatement Information

- Specify the regulatory basis under which limits were established. Choose from the pick list of the most common values for basis in the data base, or choose ‘Specify other’ and type the value you desire.

- Choose one of the codes that describes the method used to achieve the emissions abatement. This selection works best when used in combination with other criteria because it matches a large number of data base entries.
- Enter a word or phrase for the particular pollution prevention method or add-on equipment that was used.
- Specify a control efficiency threshold as a percentage. Very often, a measure of efficiency is not provided with the submittal, so a query on this data element may not find many matching records.

When you have completely specified your search criteria, scroll to the bottom of the page (see Figure 3.7). You can choose to sort the results table either by facility name or by RBLC ID. Click the radio button next to your preference. After you have completed your search criteria and selected a sort order, click the Run button to begin your query. Click the Reset button to start over with a blank standard query form.

The results of your query are displayed in a table. Examining the results of your query or downloading the results to a local PC are discussed in the sections below.

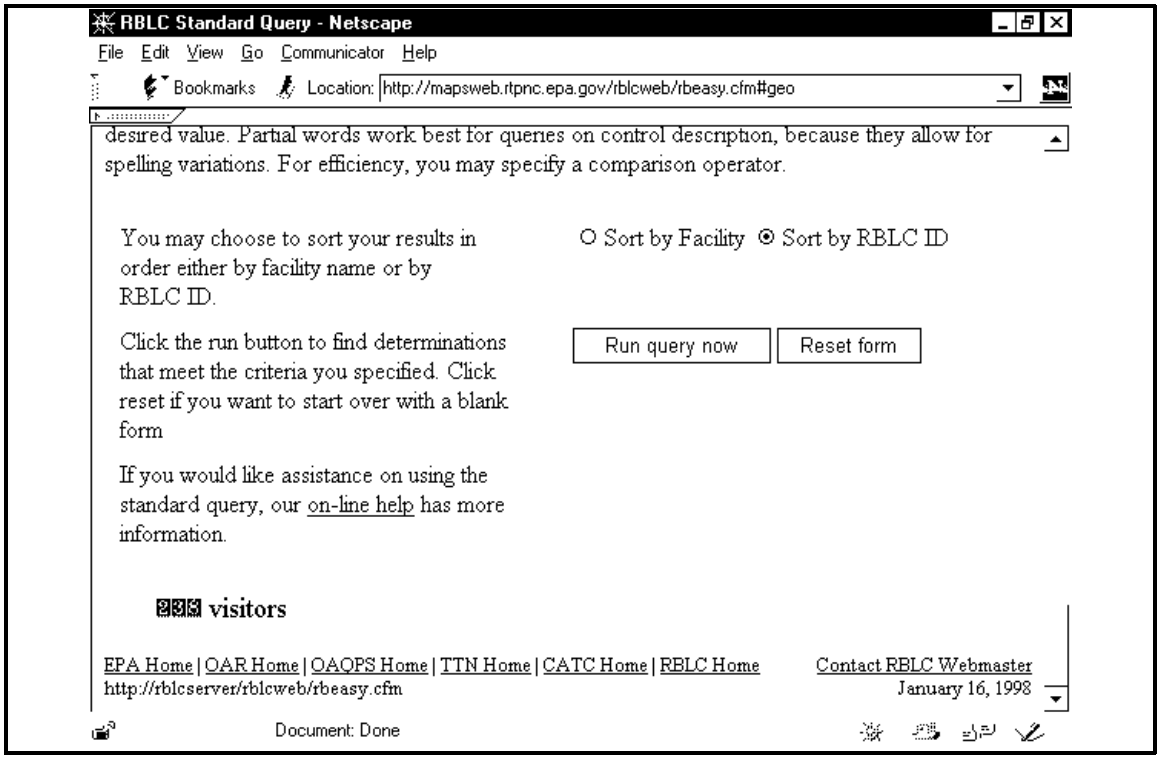

Figure 3.7 -- Run Options for Standard Query

Advanced Query

The advanced query option lets you create search criteria by choosing from pick lists of data elements and entering desired values. Two search criteria can be combined using 'AND' or 'OR' logical connectors for more selective queries. Figure 3.8 illustrates the initial part of the advanced query page. Although similar to the standard query, the advance query option does not provide sets of allowable values for data elements. In general, you should know what each data element contains to use this option effectively. The on-line help contains information that can help you run the advanced query.

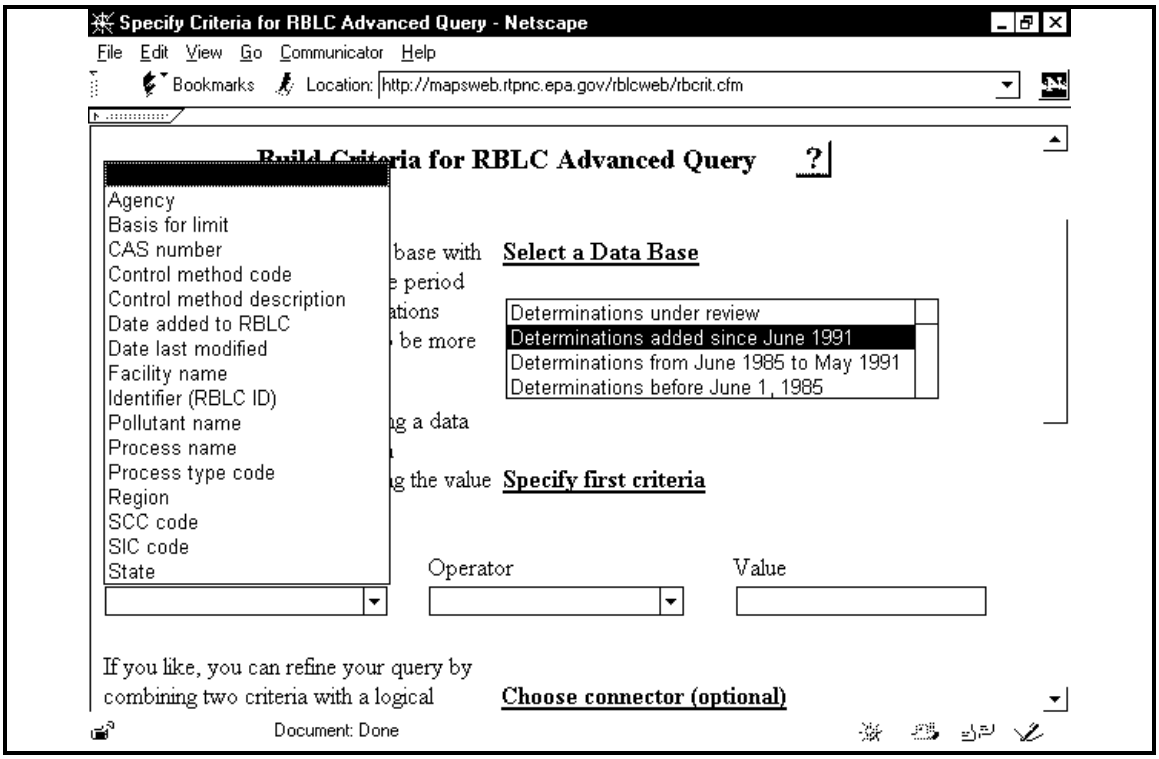

Figure 3.8 -- Advanced Query

As with other query options, you must first select one of the RBLC permit data bases based on the date that entries were added to the data base. The current data base of entries entered since June 1991 is preselected.

Specify the first search criteria by choosing a data element and a comparison operator from the pick lists. Then type the desired value for the data element in the text box, using lowercase or uppercase letters and/or numbers. The searchable data elements are listed below. Refer to the previous section on the standard query for detailed information about the allowable values for the data elements.

- Agency
- Basis for limit

- CAS number
- Control method code
- Control method description
- Date added to RBLC
- Date last modified
- Facility name
- Identifier (RBLC ID)
- Pollutant name
- Process name
- Process type code
- Region
- SCC code
- SIC code
- State

You must make an entry for all three items. None can be blank. If this correctly specifies the search criteria you want to use, browse to the bottom of the page and click the run button to begin.

Optionally, you may wish to combine two criteria in a single query. To do this, choose one the following logical connectors:

- **And** finds records that match **each** of your search criteria.
- **Or** finds records that match **at least one** of your search criteria.

If you select a connector, you must specify a second criteria. Make your choices from the pick lists, and enter a desired value. Be careful not to specify mutually exclusive criteria. For example, specifying “State equals NC and State equals FL” will not find any matching records.

Before you click the run button, you can choose to sort the results table either by facility name or by RBLC ID. Click the radio button next to your preference. Click the Reset button to start over with a blank standard query form. After you have completed your search criteria and selected a sort order, click the Run button to begin your query.

The results of your query are displayed in a table. Examining the results of your query or downloading the results to a local PC are discussed in the sections below.

Viewing Query Results

The results of a query are summarized in a table organized by RBLC ID or facility name, depending on what option you selected. The table displays RBLC ID, facility name, city, and state, along with other information that varies depending upon which query option you ran. Figure 3.9 shows an example of a results table for a standard query. Note that the search criteria used for the query appear towards the top of the page as a reminder. Each row in the table represents a facility

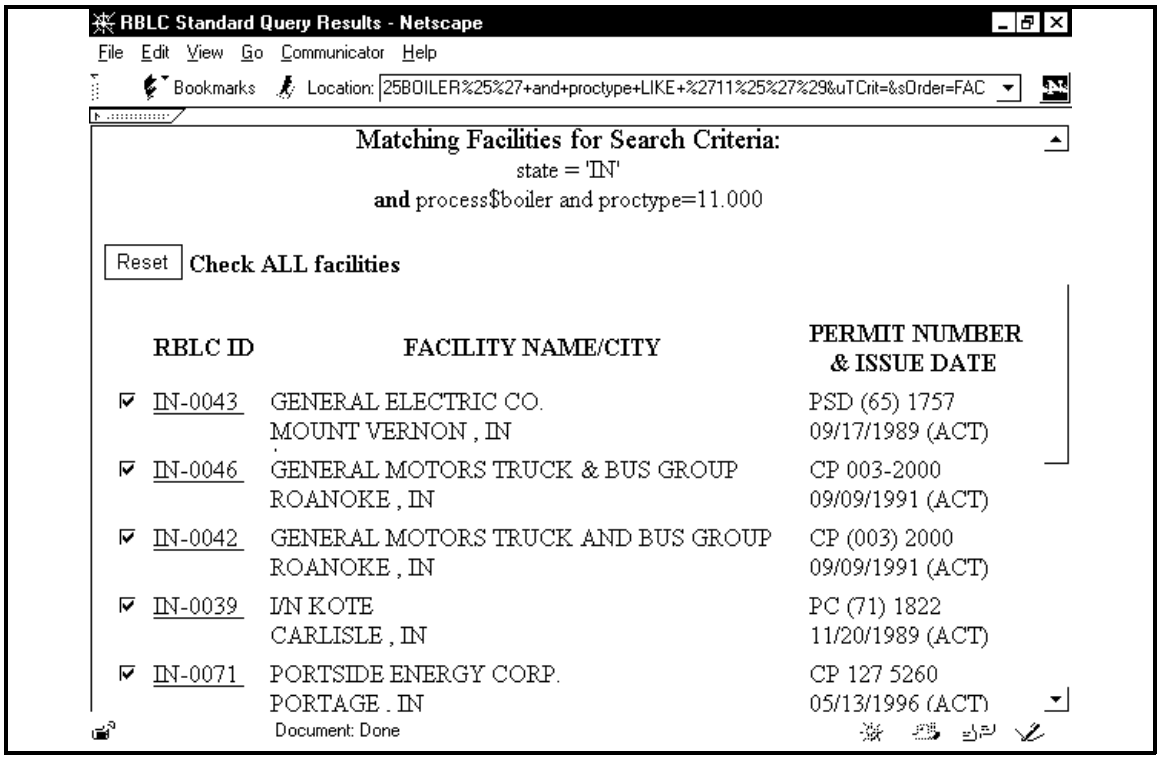

Figure 3.9 -- Query Results Table

that matched the search criteria. (When you query by process type, a facility may appear with multiple rows, one for each matching process found by the query).

The results table displays a maximum of 150 records at a time. Any reports that you create will contain only the facilities currently displayed on the page. If your results consist of more than 150 records, a link to the next 150 records appears just above the results table. To work with the next group of records, click on this link. A new page with the next 150 matching records is displayed so that you can view or generate a report on this set of records. Continue moving through the complete results set in groups of 150 records until you have viewed and reported on all of the facilities that matched your search criteria. Use the back button of your browser to view previous parts of the results set.

Information about each of the determinations in your query results is organized by facility, process, and pollutant. Click on a RBLC ID in the results table to see details about the permitted facility for that determination. View successively deeper levels of information by clicking on the links that appear in each subsequent detail page. After you have examined details about a determination, use the Back button on your browser to return to the query results table and pick another facility to view.

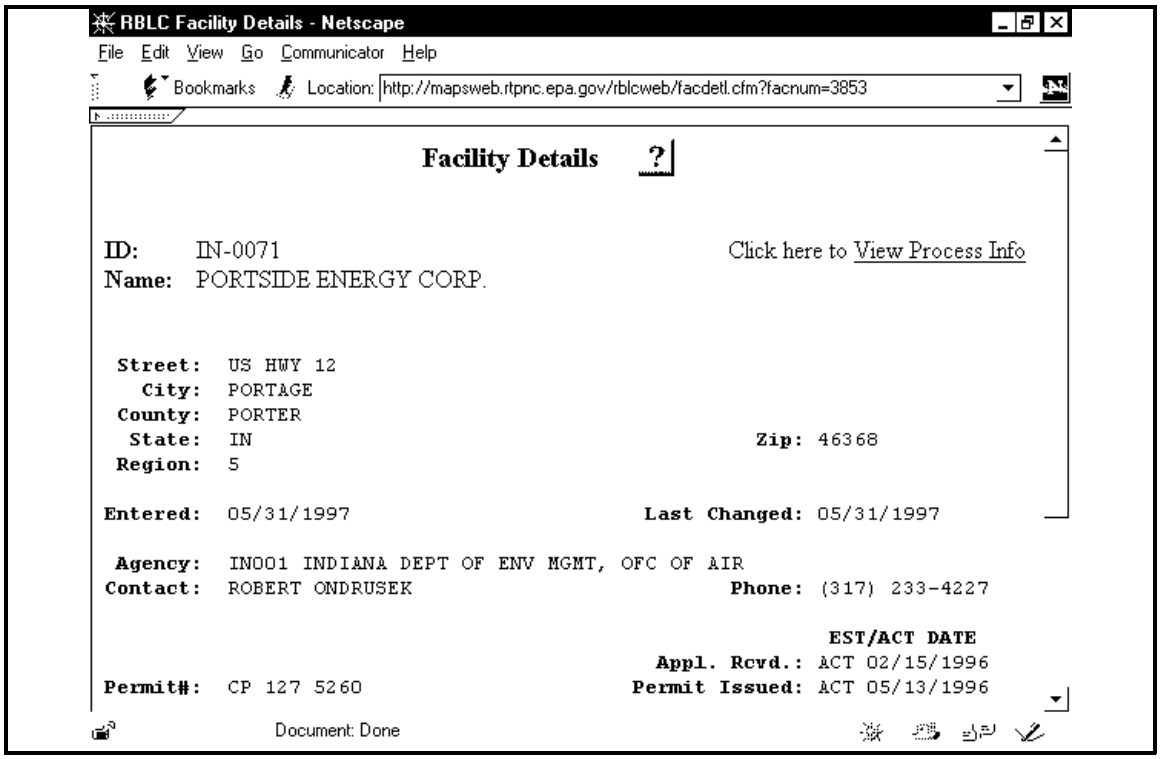

Figure 3.10 -- Facility Details Page

The initial page for any facility presents details about where the facility is located, who the permitting agency and contact person are, pertinent dates in the permitting process, facility notes, and other information related to the facility. See Figure 3.10 for an example of the facility details page. To move on to the next level of detail, click the View Process Info link.

If a facility has multiple processes, they are all displayed on a process list page. Each process in the list is a link to a process detail page that displays additional information about that process. The process detail page appears immediately if the facility has only one process.

The process detail page (Figure 3.11) presents specifics about the process, such as its throughput, if and how compliance was verified, process notes, and other information related to the process. Use your browser to go back to the process list (if any) to select other processes for viewing. Click the View Pollutant Info link to move down to the next level of detail.

If a process has multiple pollutants, they are all displayed on a pollutant list page. Each pollutant in the list is a link to a pollutant detail page that displays additional information about that pollutant. The pollutant detail page appears immediately if the process has only one pollutant.

The pollutant detail page (Figure 3.12) presents specifics about emissions of the particular pollutant. Details include primary and alternative limits, basis for the limit, pollution prevention or add-on equipment used to meet the limit, control costs, and other related information. Use your browser to go back to the pollutant list (if any) to select and view other pollutants.

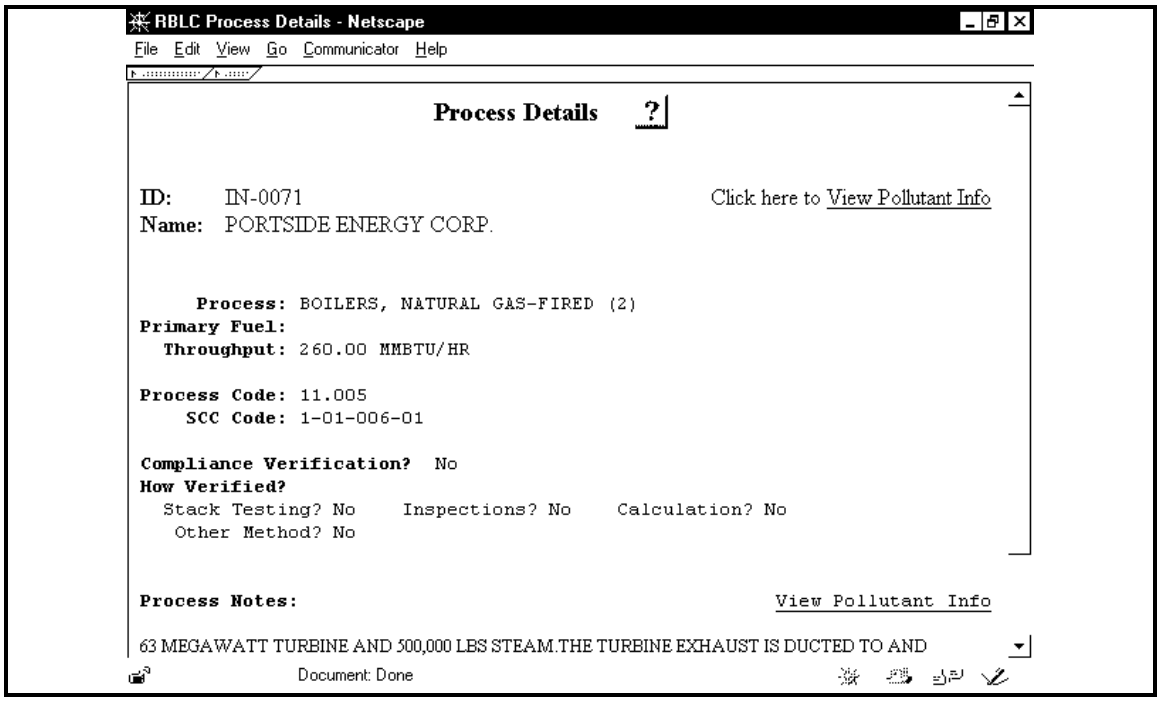

Figure 3.11 -- Process Details Page

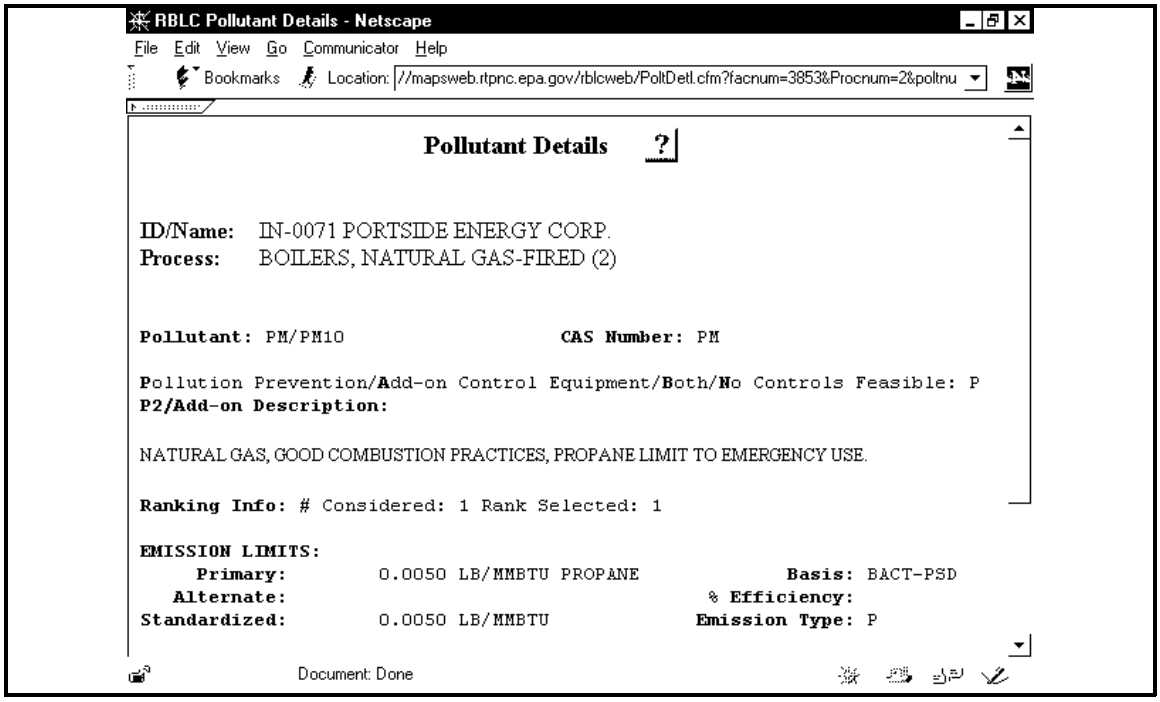

Figure 3.12 -- Pollutant Details Page

Downloading RBLC Information to Your PC

The RBLC Web allows you to download selected information to your local PC in several pre-defined formats. Both summary and detail formats are available. The list of available formats is contained in a pick list at the bottom of the results page (see Figure 3.13).

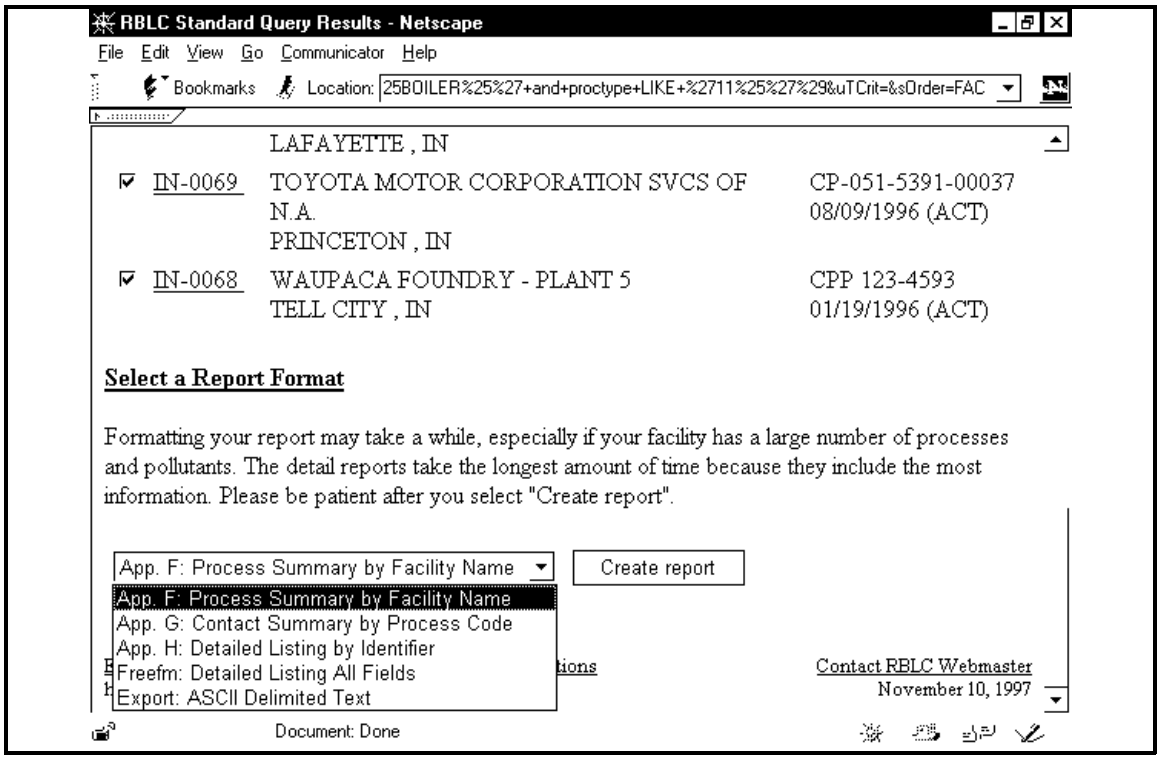

Figure 3.13 -- Download Report Format Selection

Summary reports always include all of the facilities displayed in the results table. These reports are fairly short and do not take a long time to create. Detail reports can be very lengthy depending on the size of your result set. Because these reports can take a noticeable amount of time to create, you have the option of excluding facilities from the detail reports. The first column next to each RBLC ID in the results table is a check box that indicates whether the facility will be included in detail reports created from this query. Initially all facilities are checked and will be included in the detail reports. Click the check box next to a facility to switch between checked and not checked. Click the reset button to return check marks to all facilities.

Because the results table displays a maximum of 150 records at a time, any reports that you create will contain only the facilities shown on the current page. **You may download a maximum of 150 determinations at one time.** A link to the next 150 records appears above the results table if your results consist of more than 150 records. Create one or more reports for facilities on the

current page before proceeding to work with the next group of records. When you click the link to the next 150 records, a new page with the next 150 matching records is displayed. You can now generate a report (or view) this set of records. Use the back button of your browser to return to previous parts of the results set. Continue moving through the complete results set in groups of 150 records until you have reported on the facilities of interest found by your search criteria.

Choose a report format from the list, and click the create button to generate your report. Formatting a report may take some time, especially for a large number of facilities. The detail reports take the longest time to generate because they include the most information. All reports are created as ASCII text.

Once you have selected the amount of data to download, the application will process the result set sequentially. First, a facility record is read and formatted as specified. During the format process, the record is written to a file for downloading. After the facility information is formatted, the program loops through all process records for the facility, all the pollutant records for each process, and then reads the next selected facility record and continues processing.

Please be patient after you initiate your report. When the RBLC Web has finished creating the report, your browser will display a Save As dialog box or the report itself. The exact action depends upon how you have configured your browser. You will return to the results table after you have saved the report. (If the report appeared in your browser, choose the Save As command from the File menu to save the report file on your PC. Then, use the back button to return to the results table). Choose another report format if you like, examine individual facilities, or return to the RBLC query page. The RBLC Web offers you complete flexibility in examining the contents of the permit data base.

The following report formats are available:

- **Appendix F - Process Summary by Facility Name**: sorted alphabetically by facility name; reports RBLC ID, facility name, permit date, and process code and description.

- **Appendix G - Contact Summary by Process Code**: sorted by numeric process code; reports RBLC ID, facility name, permitting agency, and name and telephone number for contact person who is knowledgeable about the determination.

- **Appendix H - Detailed Listing by RBLC ID**: reports most of the information in the permit data base for selected facilities. Because it includes details about all processes and pollutants, this is a very lengthy report.

- **Freeform - Detailed Listing All Fields**: optional method for reporting literally all information in the permit data base for selected facilities. Again, this is a very long report.

- **Export - ASCII Delimited Text**: saves selected data fields in a quoted, comma-delimited format that is suitable for importing into desktop data bases or spreadsheets. Information reported includes RBLC ID, facility name, city, state, process code and description, process throughput, pollutant and emission limit, basis for limit, and a description of emission abatement method.

USER'S MANUAL FOR THE RBLC DATA BASE

Part 4 -- Conducting a Search in the RBLC BBS

When you enter the RBLC BBS information system you may choose to Query, Browse, or Edit. This section of the RBLC User's Manual describes the Query and Browse options. Upon selection of Query or Browse from the Main menu, you must choose which of the RBLC data bases you wish to search. The choices are: the RBLC main data base (permanent), the RBLC transient data base, and the RBLC historical data base. If you choose the historical data base, you must make another selection from the Historical data base menu. You must remember to press the Enter key after each menu response. Figures 4.1, 4.2, and 4.3 represent the RBLC Main menu and the data base selection menus described above.

Please note that all of the menu choices may not be available at any given time. Throughout the system any menu option that is not available will be lowlighted on the screen. (You will notice this lowlighting in the manual also). It is also important to note that the system has an enhanced HELP system which will provide assistance at any point during a search. Simply by pressing F1, you will access the HELP system which explains the screen at which you are currently looking. HELP is also context-sensitive; users will not have to scroll through long lists of inappropriate values in order to find the one appropriate to them. (Please note that some communication programs have assigned a function to the F1 key. If the communication software that you use has assigned a function to the F1 key, you will need to reassign the function in order to utilize HELP.)

The Query Module

Once a valid data base has been selected for Query, you will proceed to the RBLC Query Menu. Users have two options when conducting a search in the RBLC information system. You may choose the Standard Query option, a menu-driven search, or the Advanced Query option which provides the more sophisticated user with a flexible search procedure. Both search options provide the ability to specify more than one criterion per search.

```
                        RACT/BACT/LAER INFORMATION SYSTEM
  RBLC                              DATA BASE MENU                  DATE: 04/01/1998

                              <B>   BROWSE DATA BASE

                              <Q>   QUERY DATA BASE

                              <E>   EDIT DATA BASE

                              <X>   EXIT TO RBLC BBS

                Press <F1> for HELP anywhere throughout the system.
    Enter *
   Option *        Press the appropriate letter to select option.
          *
```

Figure 4.1 - RBLC Main Menu

```
  RBLC                        SELECT DATA BASE MENU               DATE: 04/01/1998

                        <B>   RBLC DATA BASE (data entered since 6/1/1991)

                        <T>   RBLC TRANSIENT DATA BASE

                        <H>   RBLC HISTORICAL DATA BASE

                        <X>   EXIT TO RBLC BBS

    Enter *        Press the appropriate letter to select the
   Option *               data base you want to QUERY or
          *                  press <F1> for HELP.
```

Figure 4.2 - RBLC Data Base Selection Menu

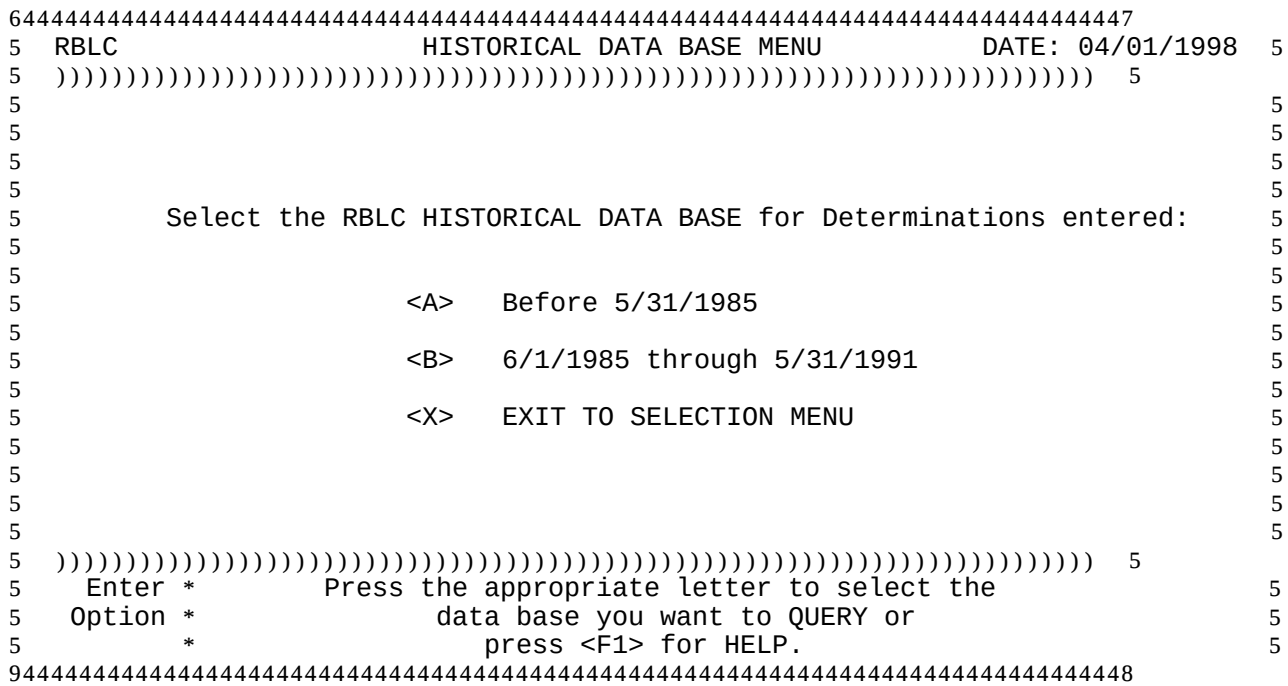

Figure 4.3 - RBLC Historical Data Base Selection Menu

The Query Menu (as it appears when the user first enters the RBLC data base) is displayed in Figure 4.4.

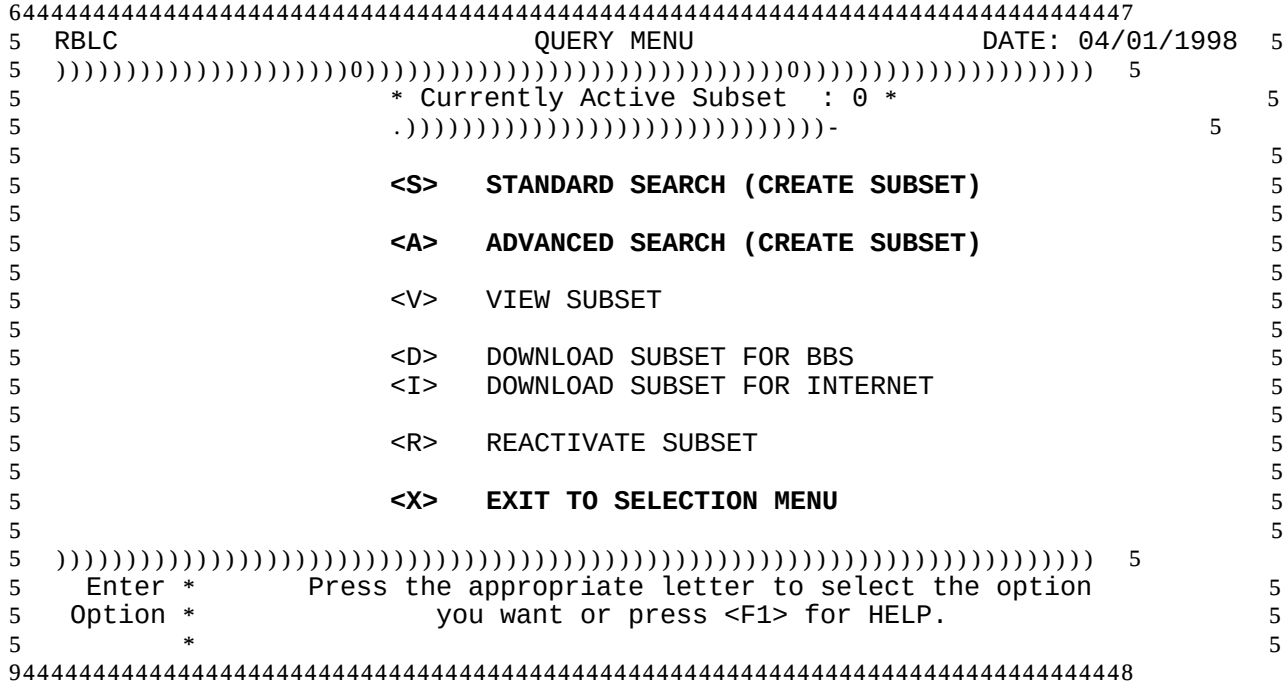

Figure 4.4 - RBLC Query Menu

When a search is performed, the system creates a subset of the data base. This subset is then available to view, to download, or to further reduce by creating a subsequent subset. A maximum of three subsets may be created during any search. Each subset is specified by a search criteria list. The search criteria list is composed of one to three separate search criteria. The three criteria are joined by a connector -- 'and' or 'or'. *One criteria list may only utilize one connector.*

For example: You may specify a subset by:

Search field	Operator	Value	Connector
STATE	=	CA	AND
PROCESS	CONTAINS	BOILER	AND
PROCESS CODE	<	20.000	

but you may **not** specify a subset by:

STATE	=	CA	AND
PROCESS	CONTAINS	BOILER	OR
PROCESS CODE	<	20.000	

In order to perform the previous search, you would first create a subset using

STATE	=	CA,

then you would reduce the subset (creating a second subset) using

PROCESS	CONTAINS	BOILER	OR
PROCESS CODE	<	20.000.	

The Standard Query

The Standard Query is a menu-driven system which allows you to subset the RBLC data base three times to create a final customized subset. You are first presented with a menu of data elements (fields) on which you may subset the data base (see Figure 4.5).

Following selection of a search field (data element), the system will prompt you for an appropriate operator. Operator values are: contains ($) (for word searches), equal to (=), less than (<), greater than (>), less than or equal to (<=), greater than or equal to (>=), or not equal to (<>). The system will validate the operator which you have chosen and then prompt you for a value. The RBLC information system aids you in selecting an operator by highlighting valid operator options. You also may learn which values are appropriate for each search field by pressing F1 (HELP) or by reading Appendix F of the RBLC User's Manual. The Operator Selection Menu and the Values Entry screen are displayed in Figures 4.6 and 4.7.

```
6444444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC                STANDARD SEARCH (CREATE SUBSET)        DATE: 04/01/1998  5
5  )))))))0)))))))))))))))))))))))))))))))))))))))))))))))))))))))))0))))))  5
5          * Currently Active Subset  :1   Criterion Being Selected :1 *         5
5          .)))))))))))))))))))))))))))))))))))))))))))))))))))))))))-         5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5    1  RBLC ID Number     9  (Reserved)           17  Poll. Preven. (P2)/Ctrl  5
5    2  Facility Name     10  SIC Code                   Equip. Code (P,A,B,N)  5
5    3  EPA Region        11  Date Updated         18  P2/Ctrl Eq. Description  5
5    4  State Code        12  Process Name         19  CAS Number               5
5    5  Permit Date       13  Process Type Code    20  Estimated % Efficiency   5
5    6  Permit Number     14  SCC Code             21  (Reserved)               5
5    7  Agency Code       15  Pollutant Name       22  Emission Type            5
5    8  AIRS ID Number    16  Basis for Limit      23  Date Inserted            5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5     Enter *           Enter Number of Data Element to Search.                 5
5    Option *                                                                   5
5           * E<X>it to QUERY Menu                                 <F1> for HELP  5
9444444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 4.5 - Standard Search Menu Screen #1

```
6444444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC                STANDARD SEARCH (CREATE SUBSET)        DATE: 04/01/1998  5
5  )))))))0)))))))))))))))))))))))))))))))))))))))))))))))))))))))))0))))))  5
5          * Currently Active Subset  :1   Criterion Being Selected :1 *         5
5          .)))))))))))))))))))))))))))))))))))))))))))))))))))))))))-         5
5  STATE                                                                        5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5    <1>  Contains (Word Search)              <5>  Greater Than or Equal To     5
5    <2>  Equals ("Begins With" for Text)     <6>  Less Than or Equal To        5
5    <3>  Greater Than                        <7>  Not Equal To                 5
5    <4>  Less Than                                                             5
5                                                                               5
5             Any valid operator may be used with any data element.             5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5     Enter *              Enter Number of Valid Operator.                      5
5    Option *                                                                   5
5           * E<X>it to Query Menu                                 <F1> for HELP  5
9444444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 4.6 - Standard Search Operator Selection Menu

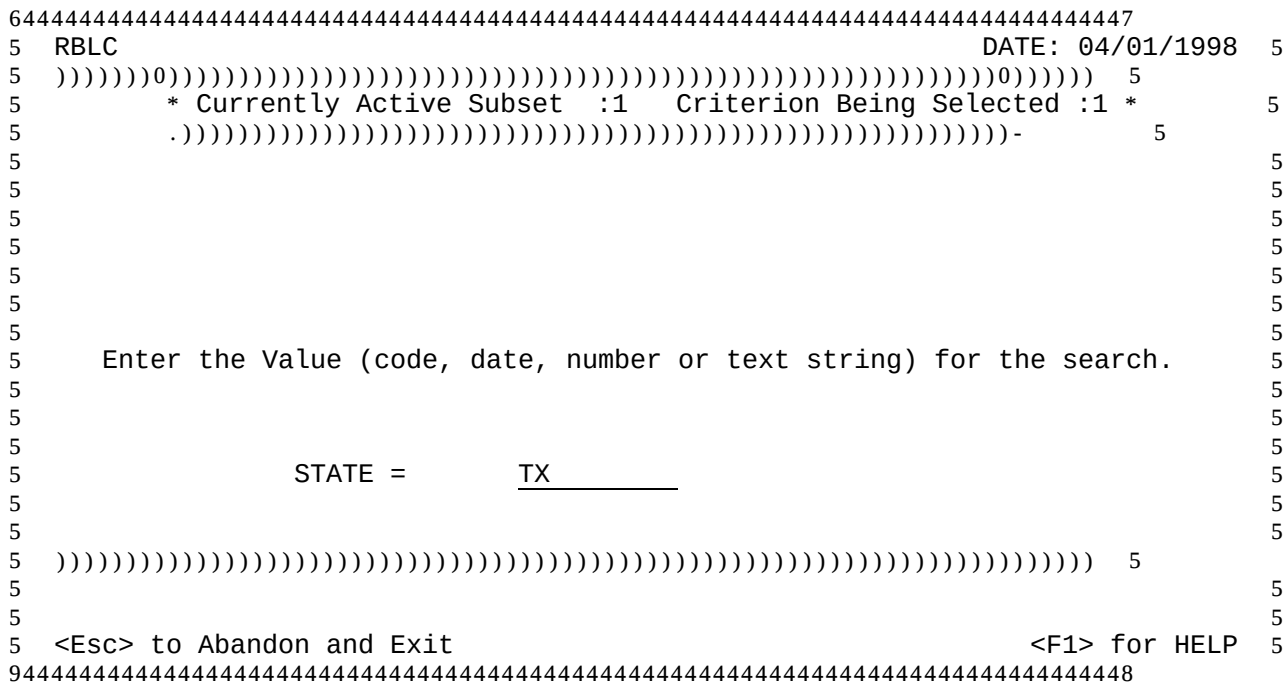

Figure 4.7 - Standard Search Value Selection Screen

Any of the operators can be used with text fields, as well as date and numeric fields. By using the operator ">" with a text field, you will be searching for any name which follows alphabetically. For example, by choosing "POLLUTANT > SO_2," you will retrieve pollutants which include sulfuric acid, TRS (total reduced sulfur), and VOC (volatile organic compounds). If you select "=" as an operator, the system will retrieve any determination in which the field *begins with* the selected value. For example, by choosing "FACILITY NAME = THE PA," you will get a subset which includes "THE PAPER CLIP FACTORY," "THE PA ELECTRIC PROJECT," and "THE PASTRY SHOP," but not "PASTEURIZATION INC."

As you develop your search criteria, the data element, operator, and value will be printed on the screen. This listing should help to familiarize you with the various elements and operators and will hopefully aid you in the transition to advanced searches in the RBLC data base.

After developing the first search criterion, you may elect to add another search criterion, search the data base, or respecify the entire criteria list (see Figure 4.8). To add another search criterion, you must select the connector to be used between criterion (see Figure 4.9), and then follow the steps used to develop the first criterion until the criteria list is finished (up to three criteria may be included).

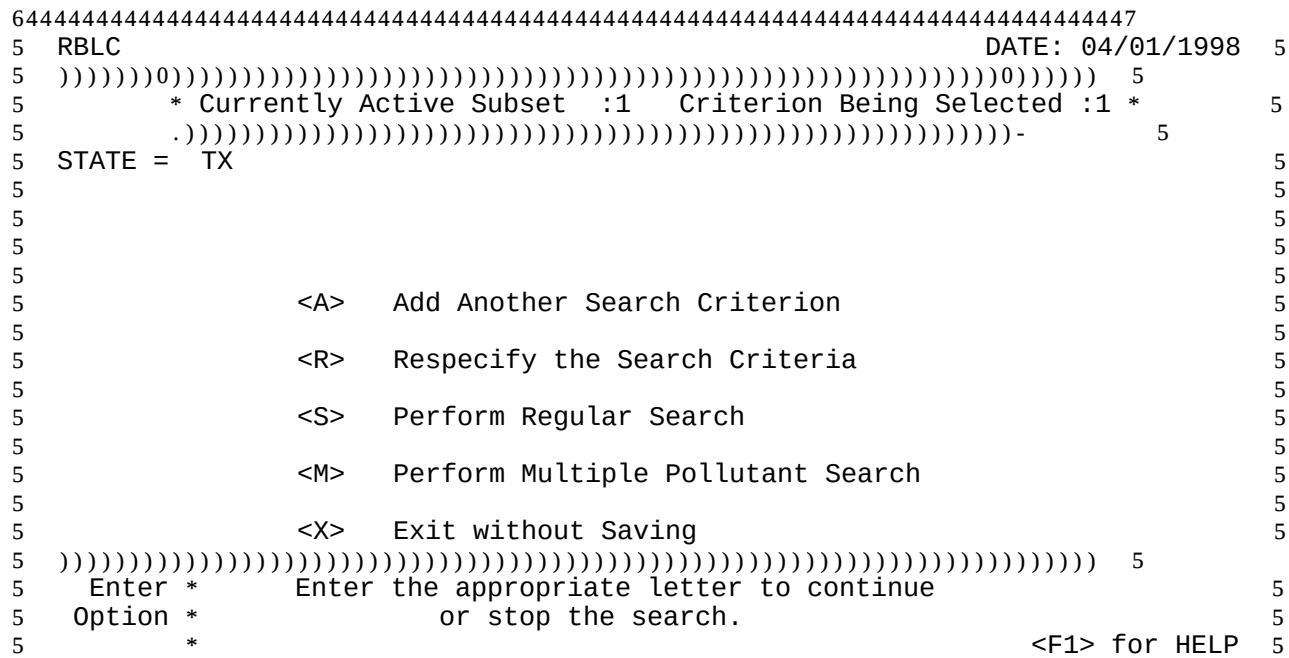

Figure 4.8 - Standard Search Supplement Criteria / Search Option Screen

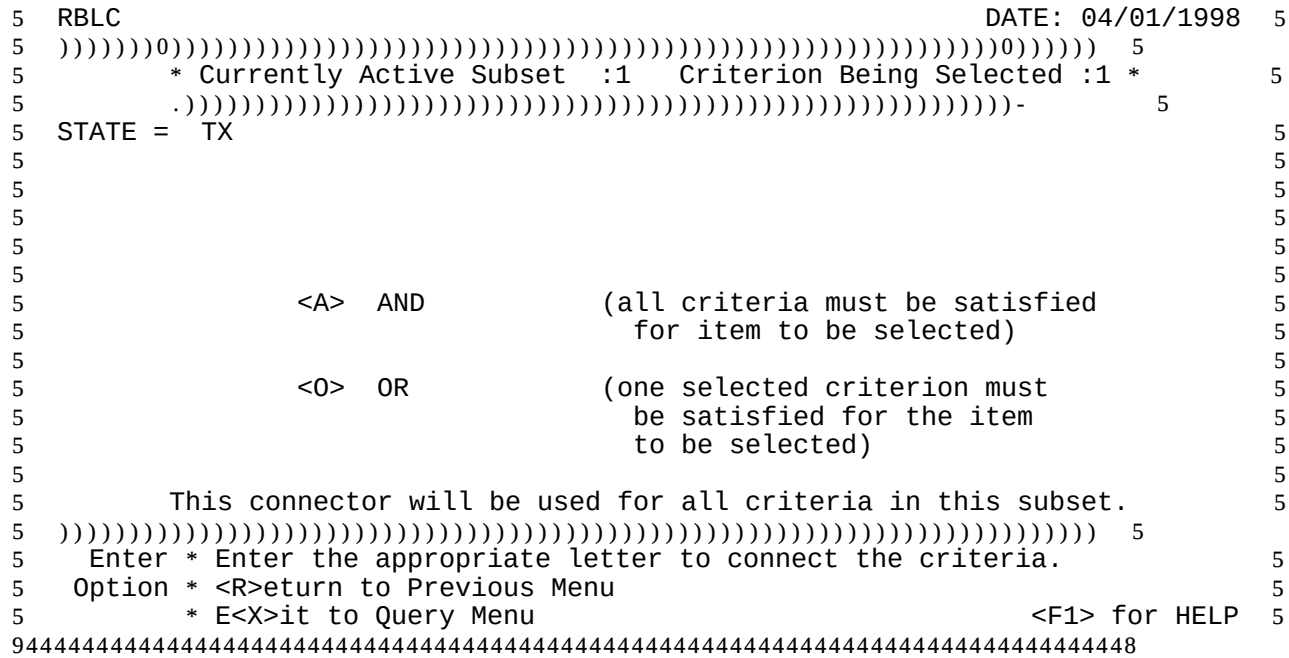

Figure 4.9 - Standard Search Connector Selection Menu

You have two search options in the RBLC data base. The Regular search will give you the results you want in most cases. Only use the Multiple Pollutant search if you are looking for processes that emit both of two specific pollutants, for example boilers that emit NOX and PM.

Once you select a search option, it remains in effect until you reactivate the main data base or select another data base. Use the Multiple Pollutant search only when you need it. This search is much slower than the Regular search.

You have an additional choice when you are searching for one of the criteria pollutants: NOx, PM/PM10, SOx, or VOC using the pollutant name field. The RBLC data base contains alternative names for these pollutants. For example, particulate matter may be entered as PM, PM10, or TSP. To insure that you find all information related to this particular pollutant, the system prompts you about whether you want to search for all appropriate variations of the pollutant name or if you want to search only for the pollutant name that you entered (Figure 4.10). At the prompt, enter "Y" to search for the pollutant name you specified PLUS any alternatives. Enter "N" to search only for the name you entered.

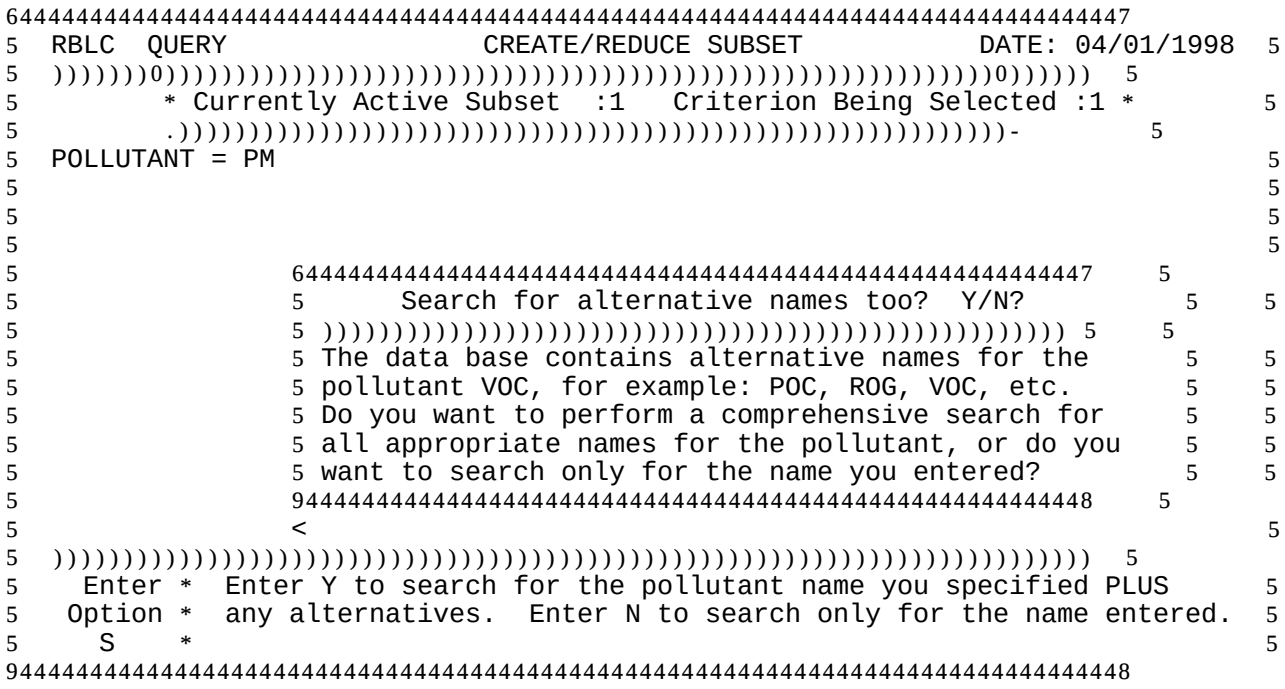

Figure 4.10 - Comprehensive Search for Criteria Pollutant Names

If you choose to search the data base, the system will perform the search and create a subset. For example, you may create a search criterion such as:

Search field	Operator	Value
Process code	>=	70.001

This search criterion will direct the system to subset all determinations containing a process code greater than or equal to 70.001. In order to reduce search times, you should try to reduce the subset

as much as possible. By including several search criteria in a list, you will create a smaller subset and, thus, reduce search time.

Following the creation of each search criteria list, the system will search the data base and present the results of the search. The results presented on screen include the number of determinations, processes, and pollutants which matched the search criteria list (see Figure 4.11).

```
RBLC                STANDARD SEARCH (CREATE SUBSET)        DATE: 04/01/1998
                        * Criteria List for Subset : 1 *
   STATE      =    TX  AND
   PROCESS    $    BOILER

        This subset contains :          50   Facilities,
                                        75   Processes, and
                                       269   Pollutants
   Enter *
  Option *              Press any key to continue ...
     S   *
```

Figure 4.11 - Display Screen Following Initial Search

After seeing the results of the first search, you may choose to further subset the search results (simply repeat the above steps), reactivate a previous subset (including the main data base), view the results on the screen, or download the subset.

The Standard Query does not allow the user to edit search criteria. If you decide that any of the search criteria for the current criteria list is incorrect, you must respecify the entire criteria list. If a search has been performed and you want to respecify the subset, you must first reactivate the preceding subset by selecting Reactivate Subset from the Query Menu, selecting the preceding subset and repeating the previous steps to respecify the new subset's search criteria list. Following the search, any previous subsets will remain the same; the current subset will reflect the new search criteria; and the system will delete any existing subsequent subsets (see Figures 4.12 and 4.13).

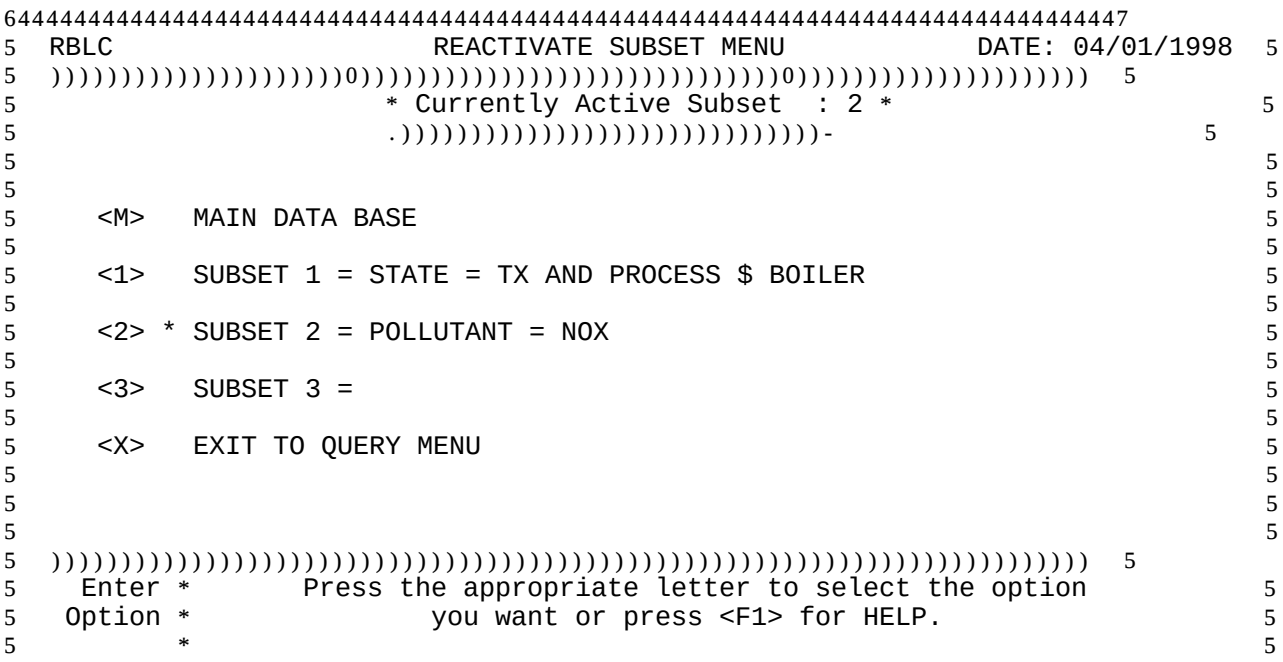

Figure 4.12 - Reactivate Subset Menu

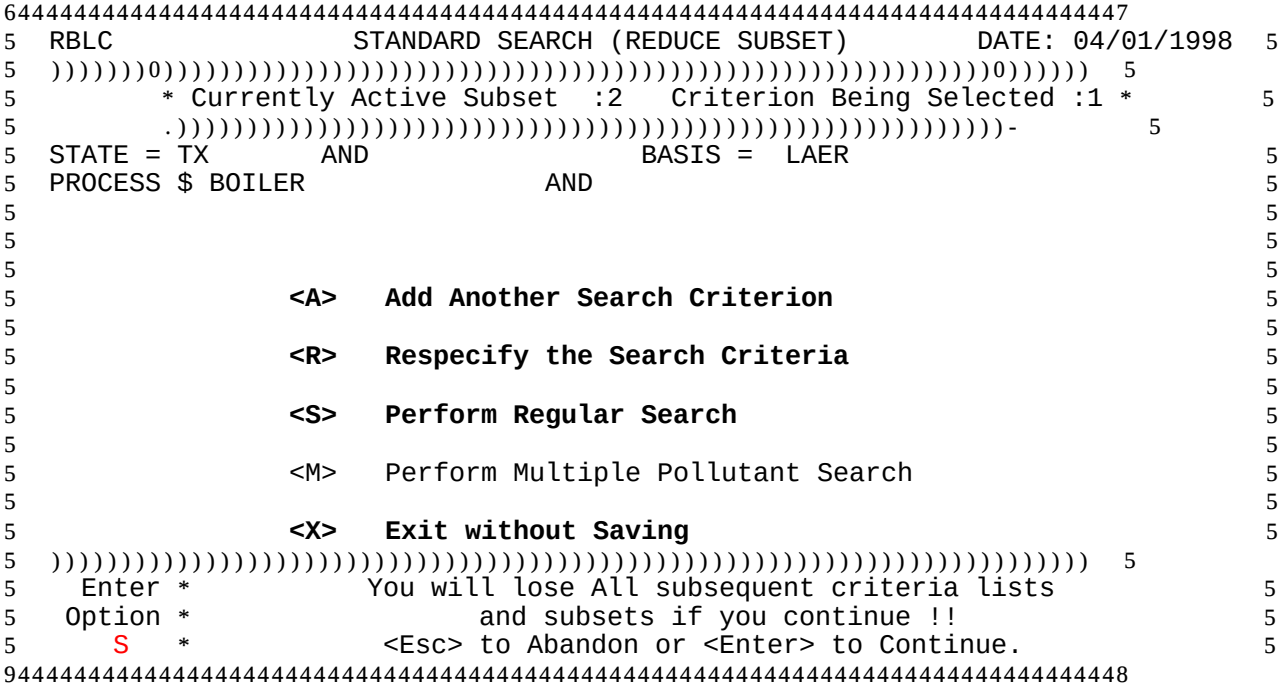

Figure 4.13 - Reduce Subset Menu

The Advanced Query

The Advanced Query is similar to the Standard Query in several ways. The search criteria lists have the same structure as the lists in the Standard Query. Searchable fields are also identical. The main differences between the Standard Query and the Advanced Query are the way in which search criteria lists are built and the flexibility to edit a criteria list which is provided by the Advanced Query.

Advanced Query allows you to build each criteria list on one screen. You are not prompted repeatedly for information. Figure 4.14 displays the screen which the Advanced Query user encounters. In order to create a subset using the Advanced Query, you would first enter <C> to create a criteria list. Once you have entered all criteria, you should enter <Ctrl><W> to save the criteria list. These steps are demonstrated in Figures 4.15 and 4.16.

```
RBLC  QUERY                CREATE/REDUCE SUBSET            DATE: 04/01/1998

                       * Criteria List for Subset : 0 *

Criterion One              Criterion Two                Criterion Three
DATA ELEMENT               DATA ELEMENT                 DATA ELEMENT


OPERATOR                   OPERATOR                     OPERATOR


VALUES                     VALUES                       VALUES


CONNECTOR =

  Enter * <C>reate List        <S>earch to Create Subset         <F1> HELP
 Option * <E>dit List   <M>ultiple Pollutant Search   <Ctrl><R> to Page Up
    C   * E<X>it to QUERY Menu                       <Ctrl><C> to Page Down
```

Figure 4.14 - Advanced Search Create/Reduce Subset Menu

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC  QUERY                CREATE CRITERIA LIST          DATE: 04/01/1998  5
5  )))))))))))))))))))0)))))))))))))))))))))))))))))))0))))))))))))))))))))  5
5                      * Criteria List for Subset : 1 *                       5
5                      .)))))))))))))))))))))))))))))))-                        5
5                                                                             5
5  Criterion One             Criterion Two              Criterion Three       5
5  ))))))))))))             ))))))))))))               ))))))))))))))   5
5  DATA ELEMENT              DATA ELEMENT               DATA ELEMENT          5
5  STATE                     PROCESS                                          5
5                                                                             5
5  OPERATOR                  OPERATOR                   OPERATOR              5
5  =                         $                                                5
5                                                                             5
5  VALUES                    VALUES                     VALUES                5
5  TX                        BOILER                                           5
5                                                                             5
5  CONNECTOR = AND                                                            5
5                                                                             5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5                        <Ctrl><W> to Save Criteria List                      5
5                                                                             5
5       <Esc> to Abandon and Exit                              <F1> HELP      5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 4.15 - Completed Criteria List for an Advanced Search

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC  QUERY                CREATE/REDUCE SUBSET          DATE: 04/01/1998  5
5  )))))))))))))))))))0)))))))))))))))))))))))))))))))0))))))))))))))))))))  5
5                      * Criteria List for Subset : 1 *                       5
5                      .)))))))))))))))))))))))))))))))-                        5
5                                                                             5
5  Criterion One             Criterion Two              Criterion Three       5
5  ))))))))))))             ))))))))))))               ))))))))))))))   5
5  DATA ELEMENT              DATA ELEMENT               DATA ELEMENT          5
5  STATE                     PROCESS                                          5
5                                                                             5
5  OPERATOR                  OPERATOR                   OPERATOR              5
5  =                         $                                                5
5                                                                             5
5  VALUES                    VALUES                     VALUES                5
5  TX                        BOILER                                           5
5                                                                             5
5  CONNECTOR = AND                                                            5
5                                                                             5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter * <C>reate Next List   <S>earch to Create Subset          <F1> HELP  5
5   Option * <E>dit List   <M>ultiple Pollutant Search   <Ctrl><R> to Page Up  5
5          * E<X>it to QUERY Menu                      <Ctrl><C> to Page Down  5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 4.16 - Advanced RBLC Criteria List After <Ctrl><W>

By pressing F1 you can access HELP. The RBLC HELP System 'knows' what part of the criteria list you are creating, and will provide appropriate HELP screens. Upon leaving HELP, the cursor will be returned to the first data element of the list. Using the Help screens to provide

information regarding valid options, you complete the search criteria list. Valid entries (and their meanings) for the Data Element Field are:

Data Element	Data field name
RBLCID	RBLC ID number
FACILITY	Company name
REGION	EPA region
STATE	State
PERMITDATE	Permit issuance date
PERMITNUM	Permit number
AGENCY	Permitting agency code
AIRSID	AIRS ID
SIC	SIC code
LASTUPDATE	Date of last update
PROCESS	Process name
PROCTYPE	Process type code
SCC	SCC code
POLLUTANT	Pollutant
BASIS	Basis for limit
CONTROLCOD	Control method code (P,A,B,N)
CTRLDESC	Control method description
CAS	CAS number
PCTEFFIC	Percent overall efficiency (design)
EMISSTYPE	Emission type
ENTRYDATE	Date inserted into data base

Following the creation of a search criteria list, you must choose to search the data base to create a subset and continue your search (see Figures 4.17 and 4.18). However, you may select to edit the existing criteria list before searching. If, after the creation of the criteria list, you decide the list is not correct, you may select <E> to edit the criteria list before you perform the search. The editing process may only be done using the Advanced Search menus. Once the search is performed and the results are displayed, you may choose to create a new search criteria list (this option would be used to further reduce the current subset), edit the existing criteria list (to rebuild the current subset), scroll through previous criteria lists (this automatically reactivates previous subsets) or exit to the Query Menu in order to View or Download the subset.

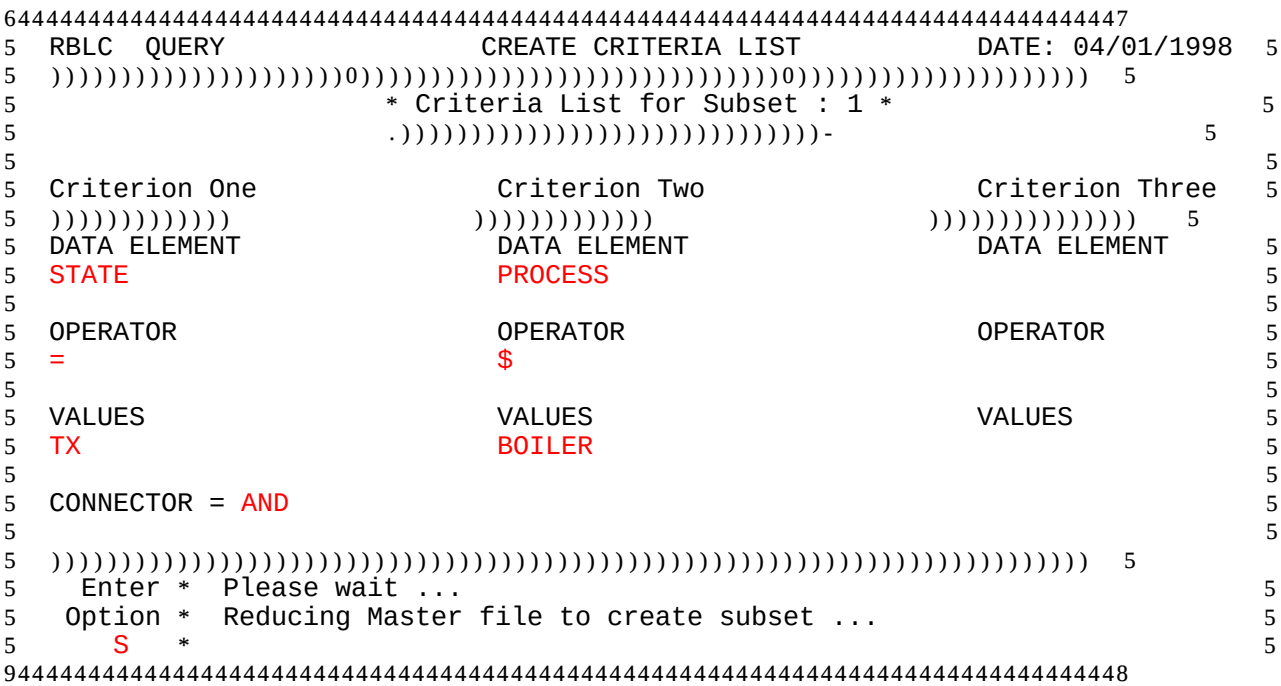

Figure 4.17 - Advanced Search Screen While Conducting a Search

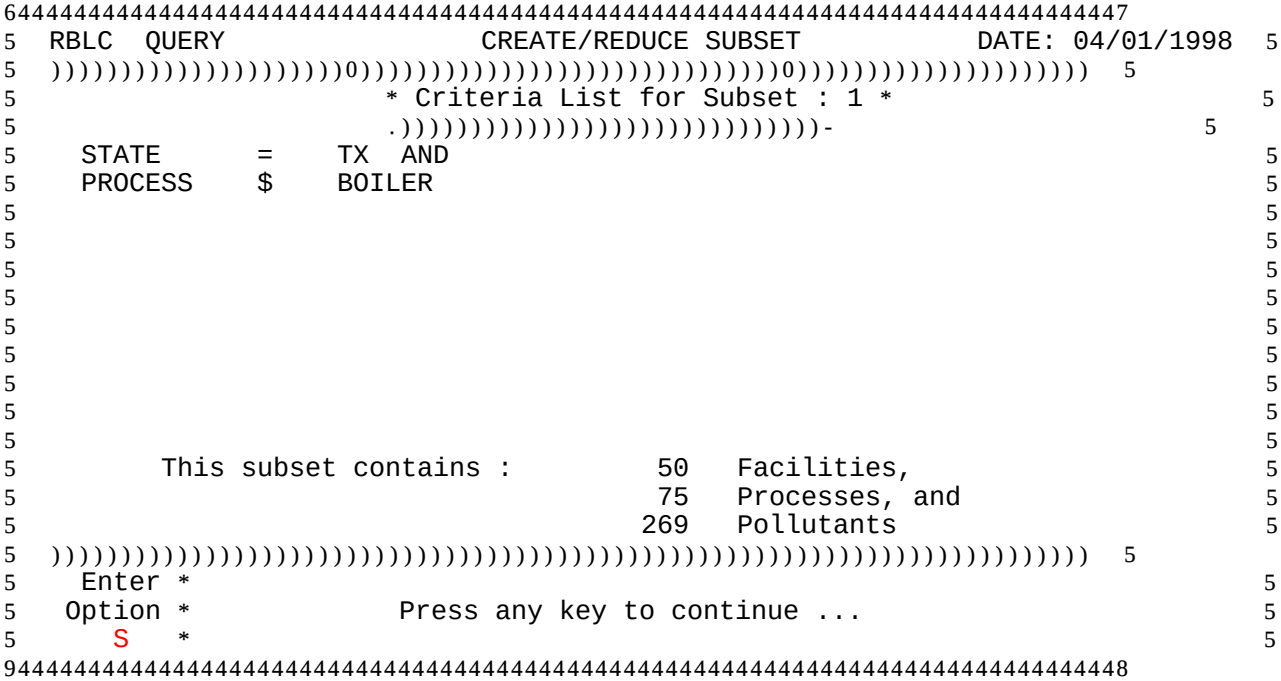

Figure 4.18 - Results of Advanced Search

After the search is performed, if you decide that not enough data was found, or too many records were found, you can select <E> to change the criteria and then recreate the subset by searching the data base again.

Editing the existing search criteria list is one of the features that separates the Advanced Query from the Standard Query. Following a search, you may choose to recall and edit any one of the three search criteria lists by using <Ctrl><R> to scroll up or <Ctrl><C> to scroll down. All previous subsets will remain the same, but all subsets following the edited criteria list will be replaced by new subsets. For example, you create three subsets (and three corresponding criteria lists), 1, 2, and 3. Following the creation of the third subset, you decide that you must rebuild subset 2 in order to gather the information you need. The Advanced Query user can perform this function in two ways. From the Advanced Query screen, you may simply scroll up (<Ctrl><R>) or down (<Ctrl><C>) to criteria list 2 and edit it; or you may return to the Query Menu, select <Reactivate Subset>, and reactivate subset 2. Upon reselection of Advanced Query, the system presents you with the original criteria list for subset 2, which you may now edit. *Once the editing is done, you must select to search the data base.* Subset 1 will remain the same; Subset 2 will reflect the editing changes, and the system will delete the original subset 3 (see Figure 4.19).

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC  QUERY               CREATE/REDUCE SUBSET            DATE: 04/01/1998  5
5  ))))))))))))))))))))0)))))))))))))))))))))))))))))))0))))))))))))))))))  5
5                       * Criteria List for Subset : 2 *                      5
5                       .)))))))))))))))))))))))))))))-                         5
5                                                                             5
5  Criterion One              Criterion Two               Criterion Three     5
5  ))))))))))))              ))))))))))))                ))))))))))))))    5
5  DATA ELEMENT               DATA ELEMENT                DATA ELEMENT        5
5  POLLUTANT                  POLLUTANT                                       5
5                                                                             5
5  OPERATOR                   OPERATOR                    OPERATOR            5
5  =                          =                                               5
5                                                                             5
5  VALUES                     VALUES                      VALUES              5
5  NOX                        SO2                                             5
5                                                                             5
5  CONNECTOR = OR                                                             5
5                                                                             5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter *           You will lose All subsequent criteria lists            5
5   Option *                  and subsets if you continue !!                   5
5      S   *            <Esc> to Abandon or <Enter> to Continue.               5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 4.19 - Advanced Search Edit

Help screens are available throughout the Advanced Query to aid you in accessing the search flexibility provided with this option.

Viewing a Subset

After you choose the View option, the system presents a list of facilities in the current subset (Figure 4.20). You must choose a facility; a listing of processes for the facility follows. The process list (Figure 4.21) allows you to either view the facility level information (see Figure 4.22), or choose a process. Each process which met the selection criteria will be marked with an '*' in the process

listing. If you choose to view the facility level data, you may then choose to remove this particular facility from your download set (Figures 4.23 and 4.24). If you exercise this option, the system will remove the marked facility before downloading the set to the your computer. A facility may only be removed from downloading from the View Facility screen.

```
RBLC  QUERY              VIEW FACILITY LIST               DATE: 04/01/1998
                       * Currently Active Subset  : 1 *
Record
Number    RBLC ID.SFX   Facility Name
1         TX-0007       SANDOW STEAM ELECT. STATION
2         TX-0008       HOUSTON LIGHTING & POWER
3         TX-0009       CENTRAL POWER & LIGHT
4         TX-0010       SW ELECT. POWER
5         TX-0011       HOUSTON LIGHTING & POWER
6         TX-0013       HOUSTON LIGHTING & POWER
7         TX-0015       SW ELECT. POWER
8         TX-0016       GULF OIL CHEMICALS
9         TX-0018       CHAMPLIN PETROLEUM CO.
10        TX-0021       INDEPENDENT REFIN.
--more--
          An R means a facility has been marked for removal from download.
  Enter * Enter Record Number to Select a Facility.              <F1> HELP
 Option *                                                 <Ctrl><R> to Page Up
  1     * E<X>it to QUERY Menu                          <Ctrl><C> to Page Down
```

Figure 4.20 - Facility Level List

```
RBLC  QUERY                VIEW PROCESS LIST              DATE: 04/01/1998
                        * Currently Active Subset  : 1 *
Facility:  TX-0008     HOUSTON LIGHTING & POWER

REC NO   Process Name                                Throughput Capacity
1      * BOILER, LIGNITE FIRED, 2 EA                 7863 MMBTU/H
2        LIMESTONE RAILCAR UNLOAD                    0
3        LIMESTONE RECLAIM & TRANSFER                0
4        LIMESTONE LOADOUT                           0
5        STORAGE PILE, LIMESTONE                     0
6        LIMESTONE RECLAIM TUNNEL                    0
7        SILO, LIMESTONE FEED, 3 EA                  0
8        SILO, FLYASH                                0
--more--  An * means a process met the selection criteria.
           To remove a facility, choose "R" from the facility data screen.
  Enter * Enter Record Number to Select a Process.                <F1> HELP
 Option * <V>iew Facility Level Data                  <Ctrl><R> to Page Up
  1     * E<X>it to View Facility List               <Ctrl><C> to Page Down
```

Figure 4.21 - Process Level List

```
RBLC          Subset: 1      VIEW FACILITY                 DATE: 04/01/1998
TX-0008    HOUSTON LIGHTING & POWER
ADDR:                                    CITY: FARRAR
COUNTY: LIMESTONE                          ST: TX  ZIP:               REG:  6

                                                          ENTERED:03/01/1983
AGENCY: OT007 - EPA REGION VI                             UPDATED:04/01/1983
 CONTACT:  JOHN BUNYAK                                       Est/Act Date
   PHONE:  (214)-767-1594                          APPL RCVD:       /  /
PERMIT/FILE #:                                  PERMIT ISSUED: ACT 09/10/1981
  SIC:                                               START-UP: EST 04/01/1985
AIRS ID:                                       COMPL VERIFIED:       /  /
FACILITY NOTES:
PM LIMIT TO BE COMPUTED BY APPLICANT USING GRAPH DERIVED FROM NSPS(CONSIDER
CONTROL EFFICIENCY AND FUEL SULFUR CONTENT). SULFURIC ACID MIST LIMIT
APPLIES WHEN FIRING LIGNITE WITH UP TO 1.71 LB/MMBTU.
OTHERWISE, 0.075 LB/MMBTU WHEN FIRING LIGNITE WITH MORE THAN 1.71 LB/MMBTU.
  Enter * <R>emove Facility from download                       <F1> HELP
 Option * Exit to <F>acility List                      <Ctrl><R> to Page Up
        * E<X>it to Process List   <V>iew Notes     <Ctrl><C> to Page Down
```

Figure 4.22 - Facility Level Information

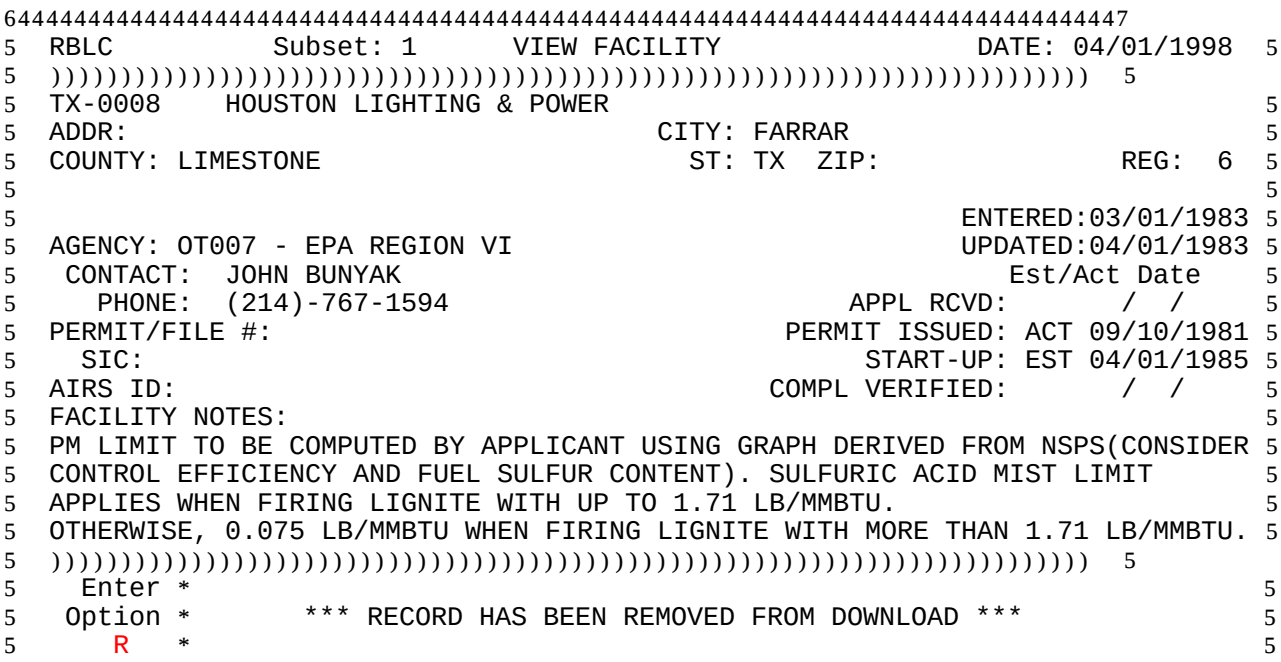

Figure 4.23 - Facility Level Information After Removal From Download

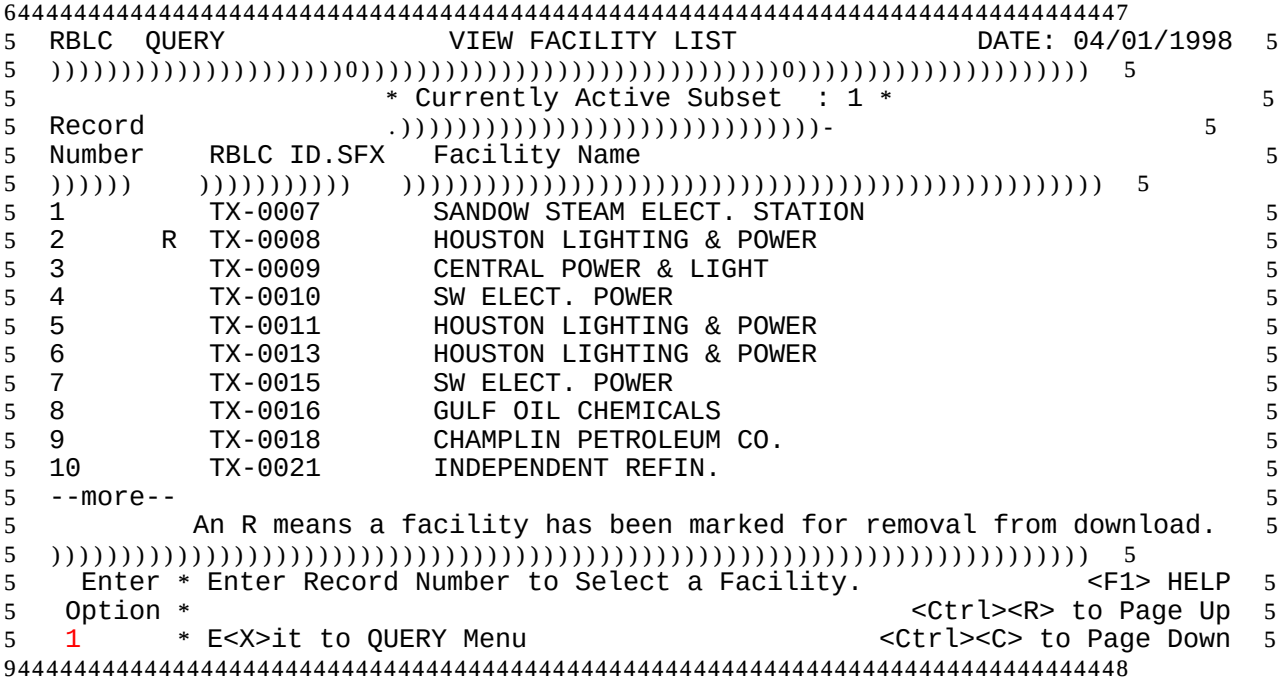

Figure 4.24 - Facility #2 Removed From Download

If you choose a process, the system displays a listing of pollutants emitted by the process. This pollutant listing screen (Figure 4.25) gives you the option to view the process level information (see Figure 4.26), or view pollutant level information. Each pollutant which meets the selection

criteria is marked with an '*'. If you choose a pollutant, the system presents a screen with all pollutant level information (see Figure 4.27).

To exit the View option, return to the Facility List and choose <X> to exit to the Query menu. Use the Download option described in the next section to transfer selected data to your local PC.

```
RBLC                        VIEW POLLUTANT LIST            DATE: 04/01/1998
                      * Currently Active Subset  : 1 *
Facility: TX-0008.   HOUSTON LIGHTING & POWER
Process:  BOILER, LIGNITE FIRED, 2 EA             7863 MMBTU/H
REC NO   Pollutant         Primary Emission Limit              Basis
1      * PM                0 LB/MMBTU                          NSPS
2      * SO2               0 SEE NOTE
3      * NOX               1 LB/MMBTU                          NSPS
4      * CO                0 LB/MMBTU                          BACT
5      * VOC               0 LB/MMBTU                          BACT
6      * PB                0 LB/MMBTU                          BACT
7      * HG                0 LB/MMBTU                          BACT
8      * BE                0 LB/MMBTU                          BACT
--more--  An * means a pollutant met the selection criteria.
          To remove a facility, choose "R" from the facility data screen.
  Enter * Enter Record Number to View Pollutant Data.              <F1> HELP
 Option * Exit to <F>acility List                        <Ctrl><R> to Page Up
  1     * E<X>it to Process List  <V>iew Process    <Ctrl><C> to Page Down
```

Figure 4.25 - Pollutant Level List

```
RBLC          Subset: 1      VIEW PROCESS                  DATE: 04/01/1998
TX-0008    HOUSTON LIGHTING & POWER
                                                                    SELECTED
PROCESS: BOILER, LIGNITE FIRED, 2 EA

PROCESS TYPE: 11.003                    HAS COMPLIANCE BEEN VERIFIED?    N
SCC CODE:                               IF YES, HOW?   STACK TESTING?    N
PRIMARY FUEL: LIGNITE                                    INSPECTIONS?    N
THROUGHPUT:   7863 MMBTU/H                              CALCULATIONS?    N
                                                       OTHER TESTING?    N
                                        DESCRIPTION:
PROCESS/COMPLIANCE NOTES:
  Enter * Exit to <F>acility List                                <F1> HELP
 Option * Exit to <P>rocess List (& Fac details)      <Ctrl><R> to Page Up
        * E<X>it to Pollutant List (& Proc details) <Ctrl><C> to Page Down
```

Figure 4.26 - Process Level Information

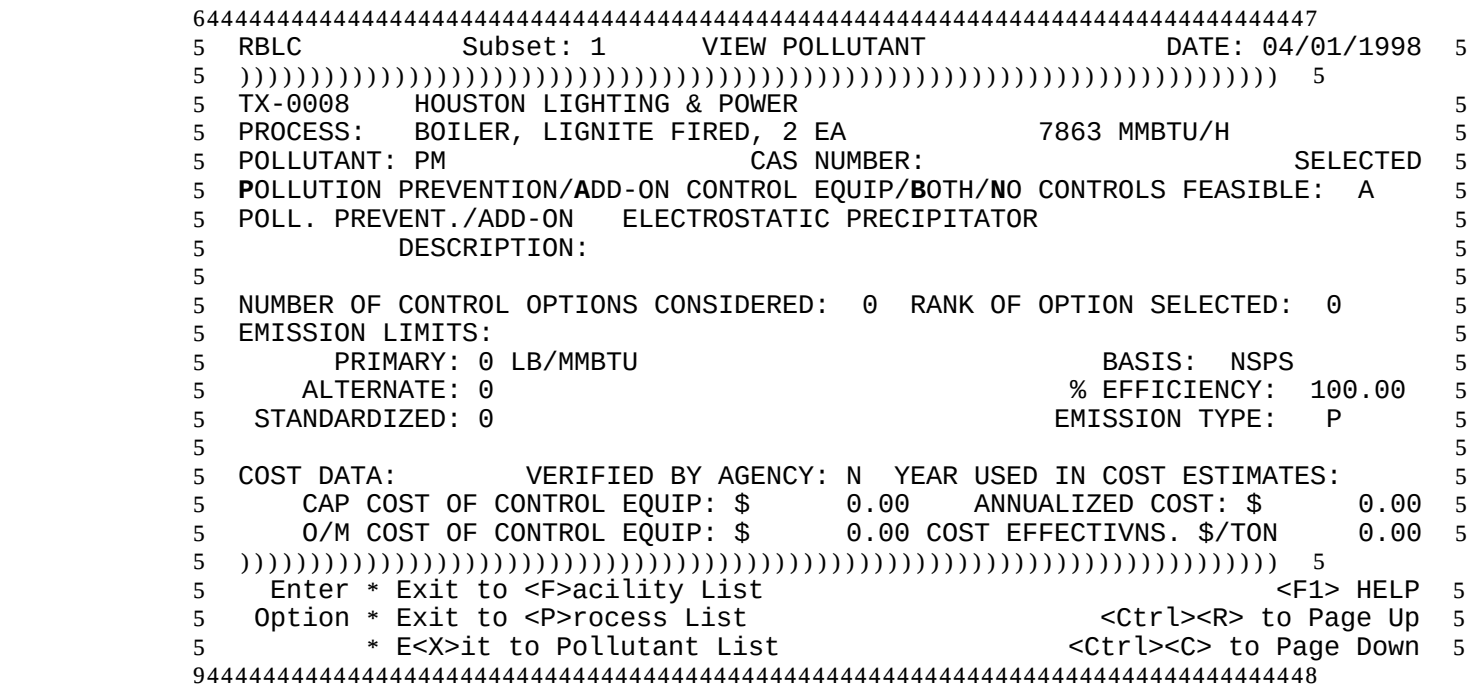

Figure 4.27 - Pollutant Level Information

The RBLC data base is divided into separate data bases depending on when the data was first added to the RBLC. If you would like to apply the current search criteria to another of the RBLC data bases you can save your criteria when you exit from the Query menu (Figure 4.28). After saving your criteria, the system returns to the Data Base Selection menu. If you select another data base from this selection menu, the system automatically searches this new data base with your saved criteria before it displays the QUERY menu. When the search is complete, the system displays the results of the search. All of your search criteria are available for editing with the advanced search option. If the search is successful, all of the Query menu options will be enabled. You can immediately choose a download format, for example. If no records in the new data base match your saved criteria, you may wish to edit your criteria and try the search again.

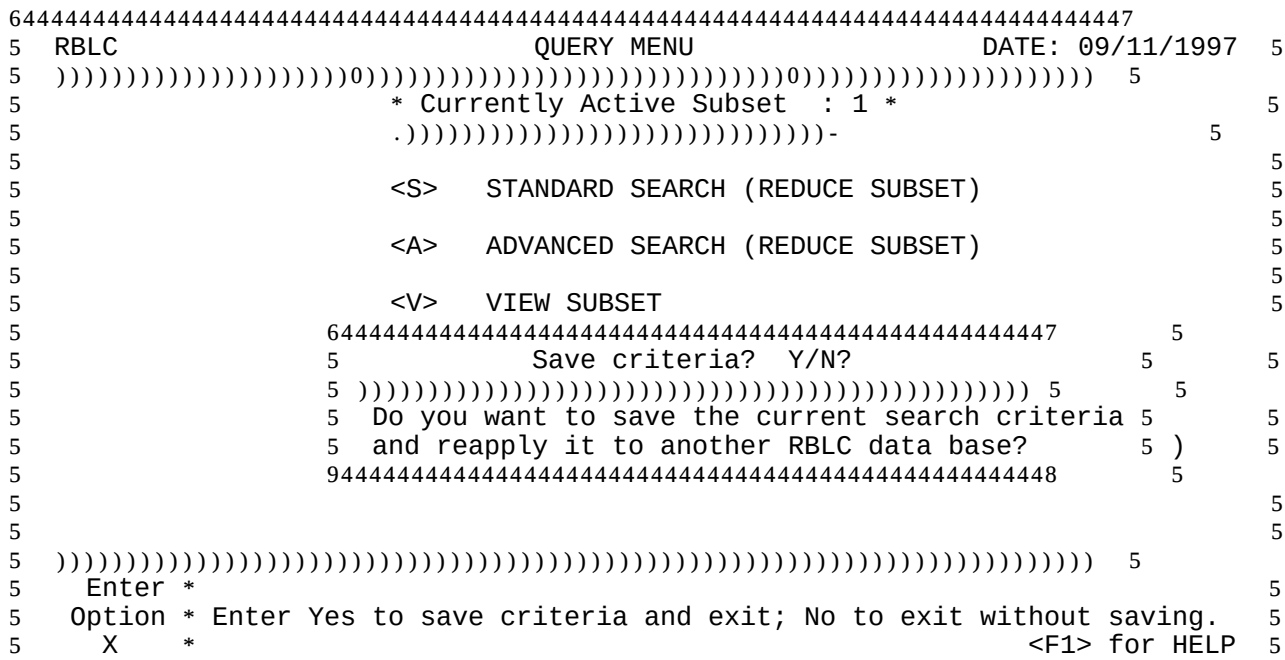

Figure 4.28 - Save Search Criteria Prompt

The Browse Module

The Browse module allows you to select from a list of process types and search the data base for all determinations of that type. You can even search for a major category of process type to view the complete set of determinations in all of the subcategories for that process category. For example, searching for process type 11.000 finds all external combustion processes from 11.001 to 11.999. After you have selected a set of determinations, you can view the determinations. The Browse view list works just like the list in Query except that it is sorted by facility name (rather than RBLC ID) so that you can readily find determinations of interest to you. The facility, process, and pollutant screens are identical to the screens for the view option of Query. A "Jump" option lets you move quickly to the facility name that begins with a given letter. If the set does not contain any facility whose name begins with a particular letter, jump moves down the facility list to the name that begins with the next higher letter in the alphabet.

In addition to viewing the facilities on-line, you can mark selected facilities and download them to your local PC. Remember that you cannot select the download option until you have used the view option to mark one or more facilities for downloading. Unlike Query, Browse begins with all of the selected facilities unmarked. A "Mark" option at the facility list lets you mark or unmark all of the facilities currently displayed on the screen, or you can mark/unmark a single facility. After you have marked facilities for downloading, the Browse download option works like the Query download option does. See the next section and Appendix G for a discussion of downloading and examples of the available download formats.

The Desktop RBLC

The Desktop RBLC is a standalone version of the on-line RBLC BBS search modules that you can install on your PC and use to search and view RBLC control technology determinations locally. The system works in much the same way as the RBLC BBS Query and Browse modules described in the previous sections. You can download a copy of the Desktop RBLC from the CATC web site (under CATC Products) or from the RBLC BBS on the OAQPS TTN BBS. To run the Desktop RBLC, you need an IBM-compatible PC with a hard drive (at least 5 Mbyte free disk space).

The Desktop RBLC works with copies of the control technology determinations entered in the on-line RBLC databases. Because new determinations are added to the on-line system on a regular basis, the files used by the Desktop RBLC on your hard drive can become out-of-date. You can download updated copies of the control technology determinations from the CATC web site (under CATC Products) or from the RBLC BBS. You must then decompress the downloaded files to incorporate the latest data into your local version of the RBLC. Refer to the list of available files under RBLC Software in the CATC Products Information section of the CATC Web, or access the Downloading option of the DOCUMENTS / SOFTWARE section of the RBLC BBS for the file names. Separate files exist for the transient, current, and historical data bases, but you only to need to download the files you want. After you have successfully downloaded the files, execute the self-extracting files and then restart the Desktop RBLC. The help system can answer any questions you might have.

Downloading Information to Your PC

The RBLC information system allows you to download selected data to the your PC. Note that if the main data base is the current selected data file, the Download Subset option produces an error message stating that you must create a valid subset at least once in order to download. **You may download a maximum of 100 determinations at one time.**

You can choose from either of two download methods, depending on how you accessed the RBLC. Both the Query and Browse modules offer one download option for BBS users and a separate download option for Internet users (see Figure 4.29) accessing the BBS via TELNET. TELNET BBS users choose "I"; dial-in BBS users type "D". Both options allow you to report your search results in any of the available RBLC download formats. In fact, you can perform as many searches as you like and download results for each search.

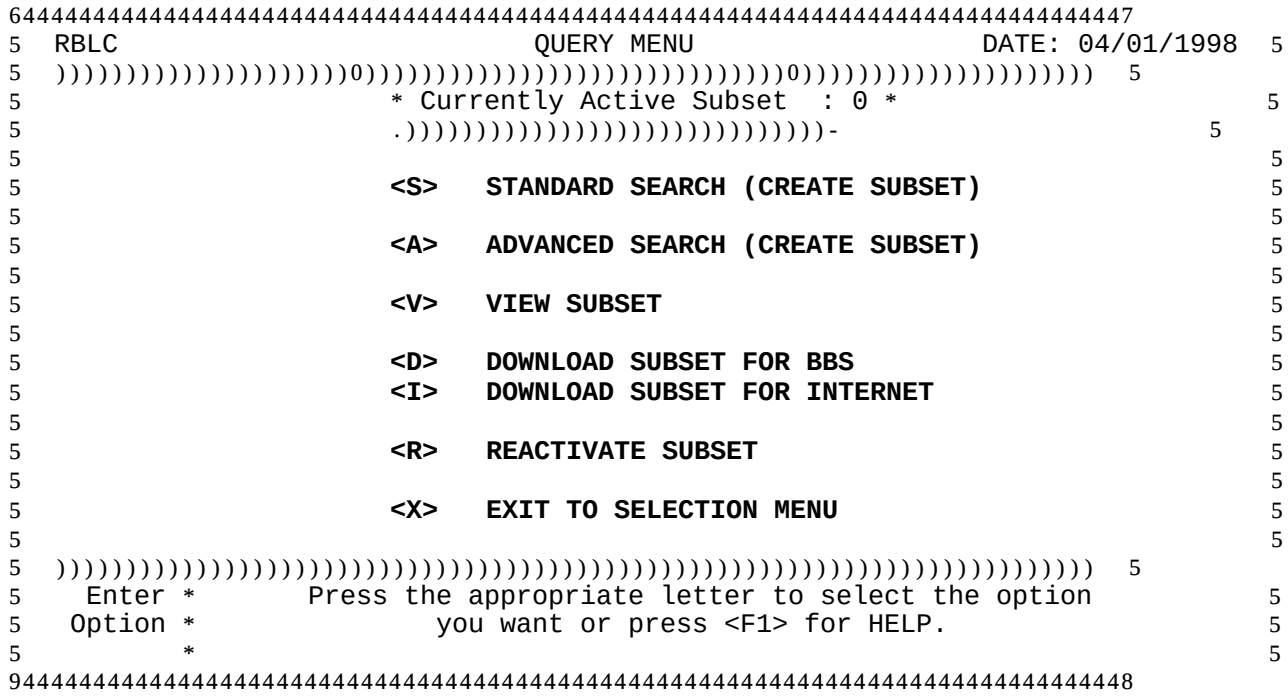

Figure 4.29 - Choosing Download Method from RBLC BBS Query Menu

The download options differ in how you transfer reports from the BBS to your local PC. The BBS download option automatically starts the BBS download operation when your report has been formatted. Regular users are probably familiar with the BBS download. It's been available since the RBLC moved to the BBS. However, the BBS download function doesn't work for most users accessing the RBLC BBS over TELNET via the Internet. When you use the Internet download option, the system saves your download report in a file on the FTP server. The system simply tells you when it has successfully created the file, instead of automatically invoking the BBS download function. All of your download reports will be stored on the FTP server in file names that you select. Be sure to make a note of the file names you create. After you have finished searching the RBLC, quit the search program, exit from the BBS, and return to the RBLC Web query page. From the web query page, select the link "FTP Files" to transfer the search results to your local PC. Just be sure to get your files fairly soon after you create them, because all download files will be erased each week when the BBS is down for weekly maintenance.

The system also allows you select the format of the downloaded data. The available format options for downloading data are free format (all data elements, with data field names), Lotus or dBASE ready format (most data elements in a data base ready for dBASE or translation into Lotus), and the following standard report formats:

- Appendix F: A summary listing, in alphabetical order by facility name, which includes the following information: facility name, year of the compilation in which

the determination appears, RBLC ID number and suffix, process code number, date of permit issuance, process name.

- Appendix G: A summary listing of contact information, in order of process code, which includes the following: facility name, year of the compilation in which the determination appears, RBLC ID number and suffix, date of permit issuance, agency name, agency contact name, agency telephone number.

- Appendix H: A detailed listing of all new and revised individual source information

- Statistical Ranking report: A summary listing, in ascending order by standard emission limit, of processes which contain a specified pollutant. This data allows users to compare the effectiveness of RACT, BACT, and LAER control technologies. At a minimum, the subset selected must contain only a single process code and a single pollutant. The subset may be further refined by process name. Pollutants with no value in the standard emission limit field are not included in the statistics. Instead, primary emission limits for these pollutants are shown in an exception report. The exception report is sorted by primary emission unit, then in ascending order by primary emission limit.

After you choose the Download for BBS or Download for Internet option from the Query Menu, the system presents you with a list of the available formats for downloading and an option to return to the Query Menu (Figure 4.30). For an example of each downloading format, see Appendix G.

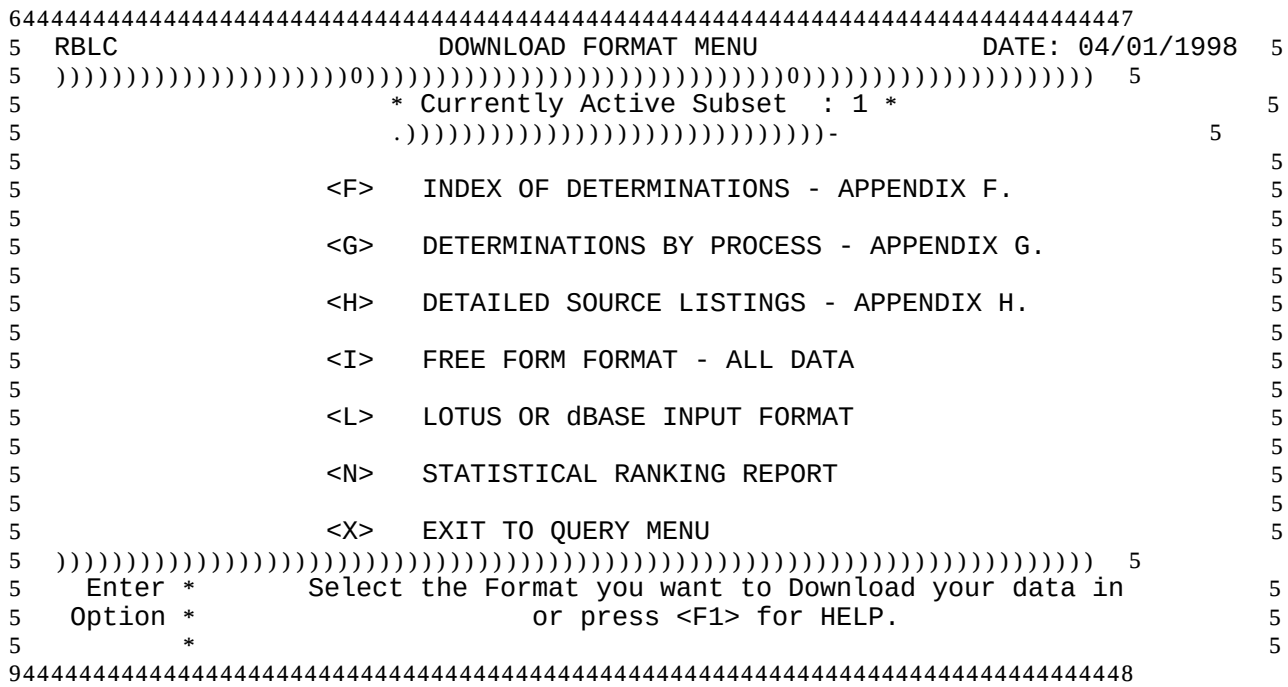

Figure 4.30 - Download Format Menu

If you choose the Appendix H, free form, or Lotus/dBASE download formats, the system prompts you to select the amount of data to download (Figure 4.31). You may choose to download all processes and pollutant data relating to selected facilities, download all data (including all pollutant data for the processes) relating to only processes selected by the search criteria (marked with an '*'), or download process and pollutant data for pollutants specified in the search criteria (marked with an '*'). Please note that any facility which was marked for removal from download in the View option will not be included in the download data set. If there are more than one hundred (non-removed) facilities in your subset, the first one hundred will be downloaded.

After you have selected the amount of data to download, the program will prompt you for a file name (Figure 4.32). The system automatically generates a name for the internal file it uses to store the data selected for downloading. To use the file name generated by the system, press <Enter>. To specify another file name, type a 1 to 8-character file name at the prompt and press <Enter>. If the file name you specify is already in use, you must enter a different name. Do not enter a drive or path specification at this prompt.

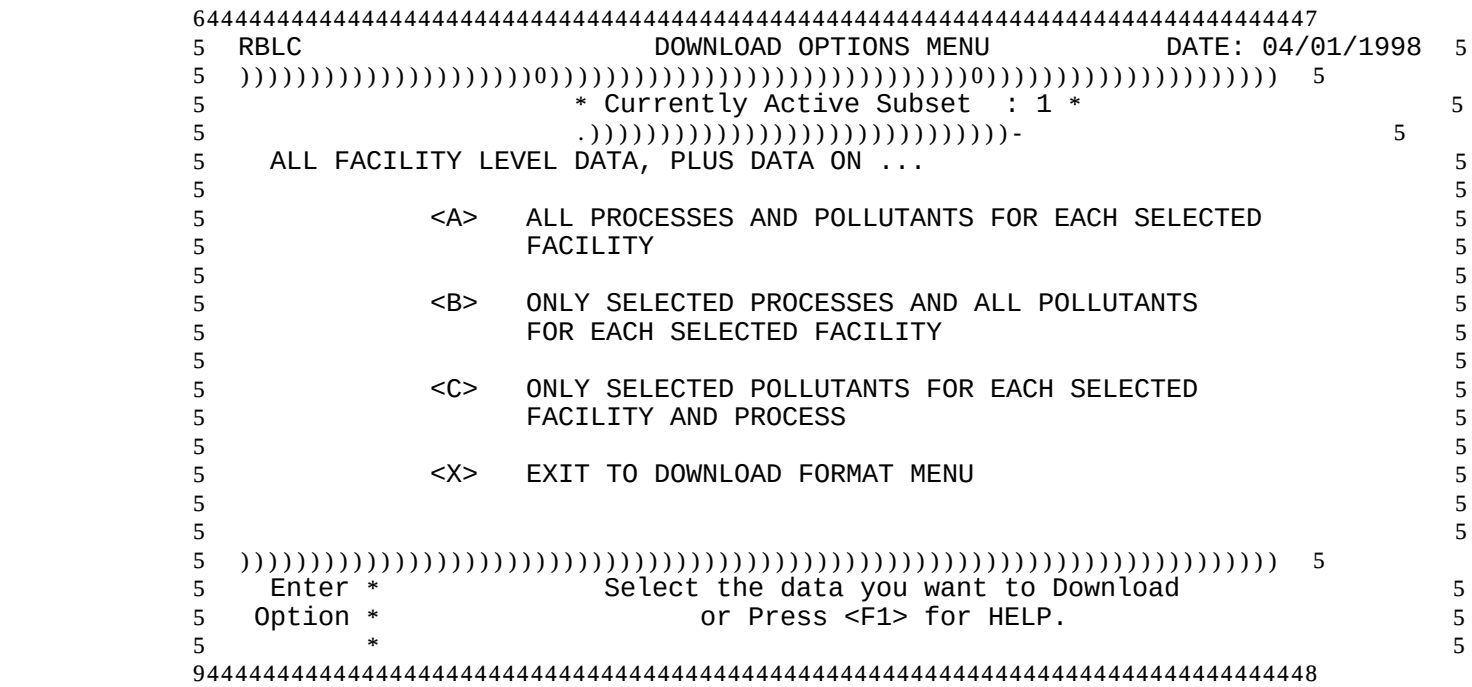

Figure 4.31 - Download Options Menu

For some communication software used to access the BBS, the download file name is always used for the file actually downloaded to your local PC. If you have downloaded a file earlier in a session, the file may be overwritten. To avoid overwriting files, specify a new file name each time you download during any one session. You may also use the download function of your communication software (e.g., CROSSTALK) to name a download file.

Once you have selected the amount of data to download, the program will process the subset sequentially. First, a facility record is read and formatted as specified. During the format process, the record is written to a file for downloading. After the facility information is formatted, the program loops through all process records for the facility (described below) and then reads the next selected facility record. The system updates a status counter of the number of determinations as it completes processing of each facility record. When all the facilities have been written to the download file, the program executes the download method you selected at the Query Menu.

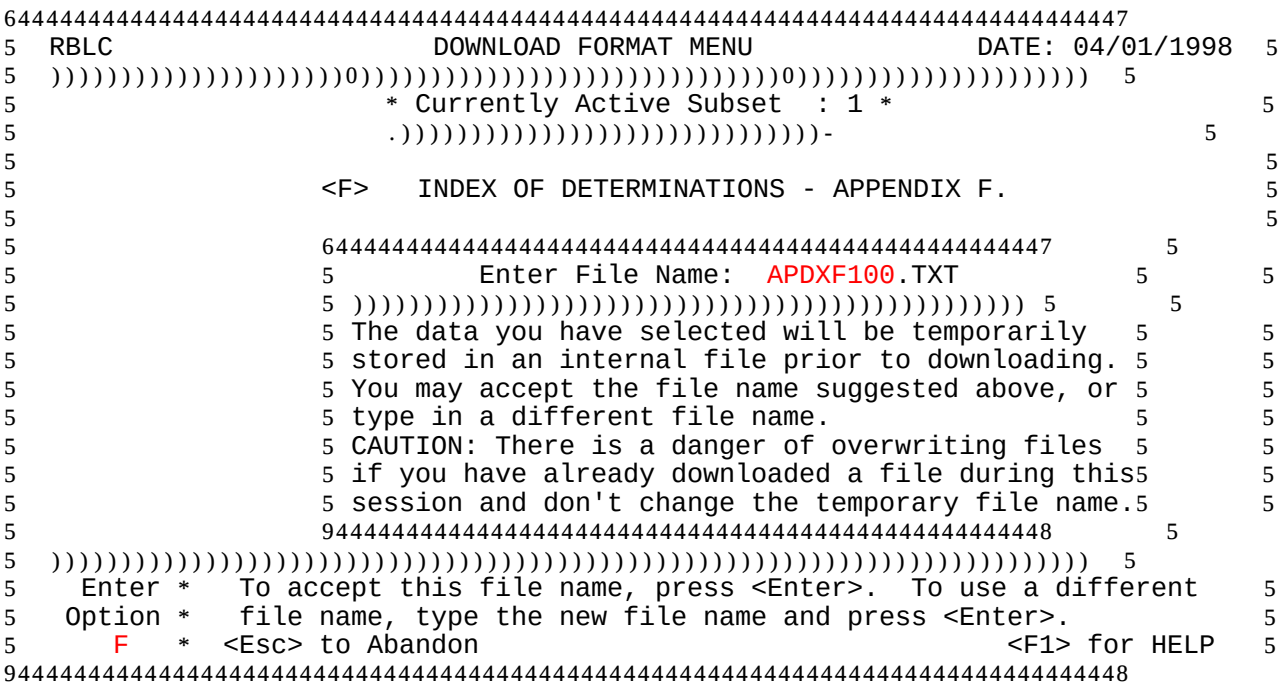

Figure 4.32 - Download File Name Prompt

If you have selected to download all processes, or if the selection criteria only specified information at the facility level, the program reads a process record based on Facility number. Otherwise the program reads a process record based on the subset of data specified. The process information is then formatted and written to the download file if appropriate. Following the formatting of the process data, the program loops through all pollutants for the process (described in the following paragraph). Then the next selected process record is read. When all the processes for the current facility have been read and formatted, the program reads the next selected facility and continues processing.

If you have selected to download all pollutants, or if the selection criteria only specified information at the facility or process level, the program reads the pollutant record based on the Facility number and Process number. If only pollutants specified in the search criteria are to be downloaded, the program reads the pollutant record based on the subset of data selected. The pollutant information is then formatted and written to the download file. When all the pollutants for the current process have been read and formatted, the program reads the next selected process and continues processing.

Since the number of determinations that may be downloaded at one time is limited to one hundred, the download process should not be too time-consuming. Some of the download formats, such as Free Format, Appendix H, and Lotus/dBASE, take longer because more information is included. Any download may be stopped by pressing <S> during the download process.

USER'S MANUAL FOR THE RBLC DATA BASE

Part 5 -- Editing Information Online in the RBLC Data Base

Upon entering the RBLC information system you may choose to Browse, Query, or Edit. The first screen that you see is shown in Figure 5.1. This section of the RBLC User's Manual describes the Edit option. To choose Edit from the Main menu, simply press <E>. As with the Query section of the system, you must press the Enter key after each menu selection.

```
                        RACT/BACT/LAER INFORMATION SYSTEM
 RBLC                              DATA BASE MENU                 DATE: 04/01/1998

                            <B>   BROWSE DATA BASE

                            <Q>   QUERY DATA BASE

                            <E>   EDIT DATA BASE

                            <X>   EXIT TO RBLC BBS

              Press <F1> for HELP anywhere throughout the system.
    Enter *           Press the appropriate letter to select option
   Option *                     or press <F1> for HELP.
          *
```

Figure 5.1 - RBLC Main Menu

It is important to note that the RBLC data base has an enhanced HELP system to provide assistance at any point during an edit session. When you press F1 to access HELP, the HELP system explains the screen you are currently viewing. HELP is context-sensitive, so that you do not have to scroll through long lists of values in order to find the one appropriate to your situation.

After you select Edit from the Main menu, the system asks you for a password (see Figure 5.2). In order to add or edit any information in the RBLC data base, you must have a valid TTN user ID and RBLC password. For information on obtaining a user ID see Part 1 of this User's Manual.

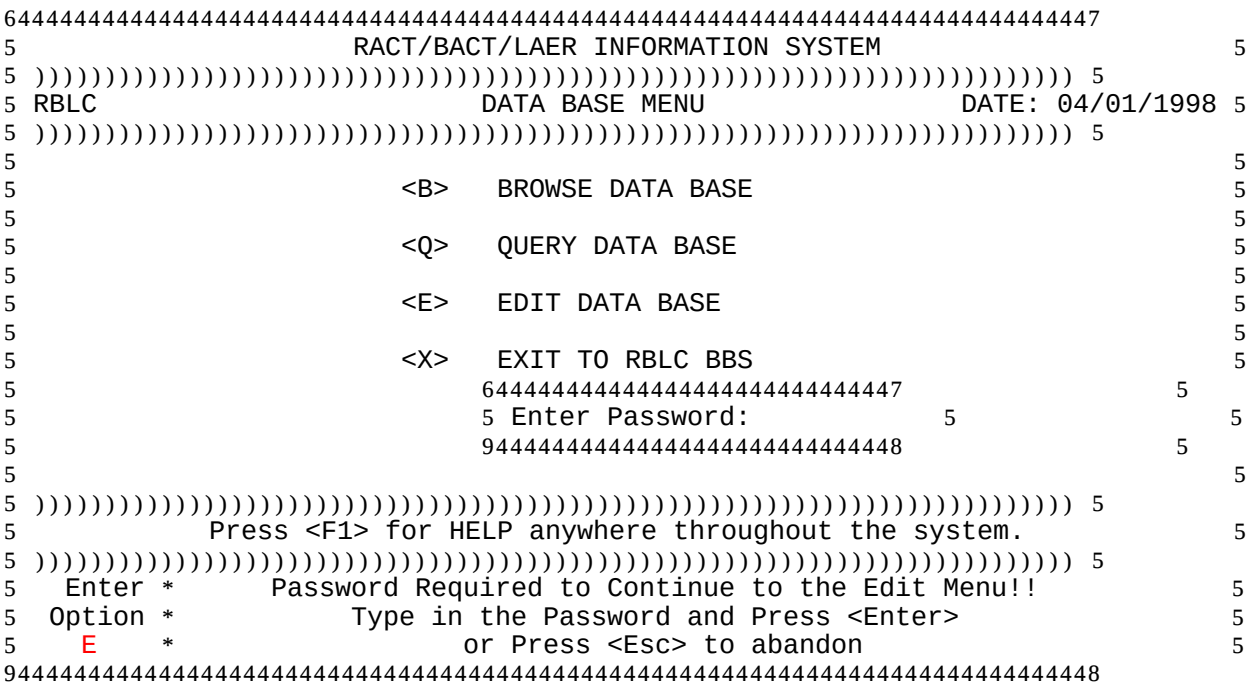

Figure 5.2 - Password Entry Box

Following the prompt to enter a password, you should enter your authorized password. Based on this password, you have access to specific determinations in both the transient and permanent RBLC data bases. If you enter an invalid password, the system displays a warning message and denies you entry into the Edit module (see Figure 5.3).

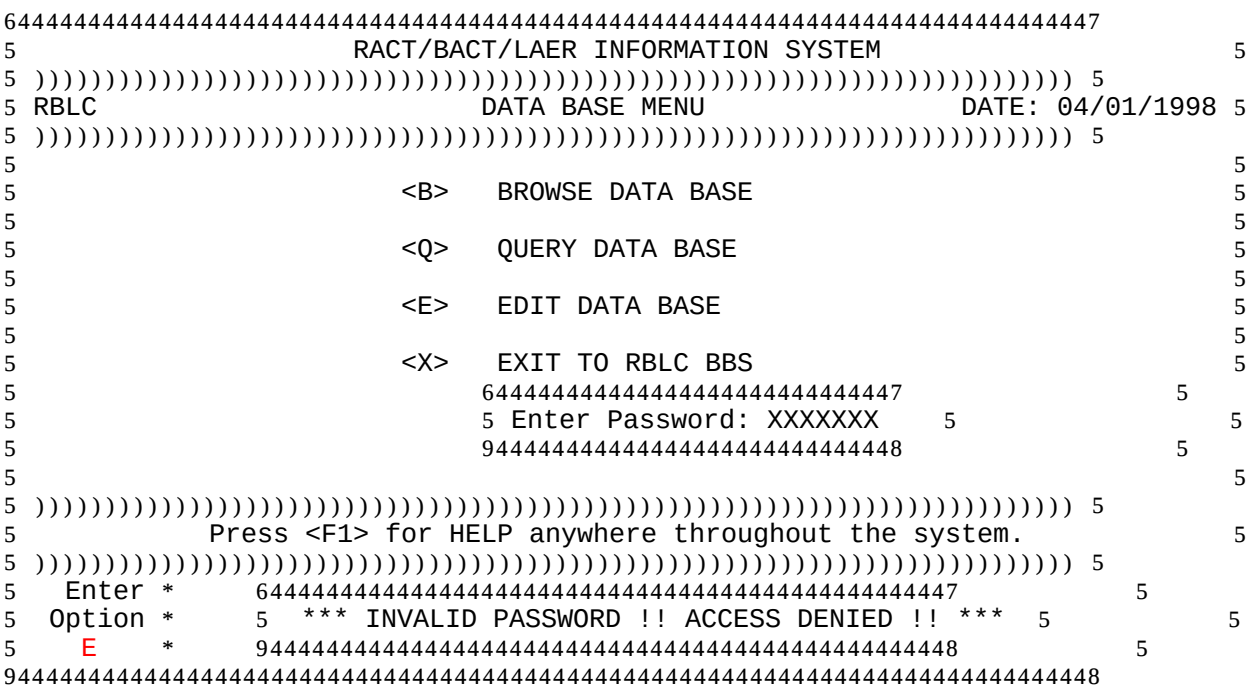

Figure 5.3 - Invalid Password Entered Into RBLC

After you have entered a valid password, the system displays the Record Selection Menu (see Figure 5.4). This menu allows you to select which records to update. The <L> option takes you to the facility list screen that displays the RBLC IDs and company names you are authorized to update.

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5 RBLC  EDIT              RECORD SELECTION MENU              DATE: 04/01/1998 5
5 ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5                                                                            5
5                                                                            5
5                                                                            5
5                                                                            5
5                         <E>   ENTER RBLC ID                                5
5                                                                            5
5                         <L>   LIST RBLC IDs                                5
5                                                                            5
5                         <A>   ADD NEW DETERMINATION                        5
5                                                                            5
5                         <X>   EXIT TO RBLC BBS                             5
5                                                                            5
5                                                                            5
5                                                                            5
5                                                                            5
5                                                                            5
5 ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5   Enter *          Press the appropriate letter to select option           5
5  Option *                   or press <F1> for HELP.                         5
5         *                                                                  5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 5.4 - Record Selection Menu

Throughout this section of the User's Manual we will refer to determinations in three ways: new, edited, and old. *New* indicates a determination that does not exist in the master data base. It has been recently entered into the RBLC information system and has not been promoted. *Edited* indicates a determination that exists in the master data base, has recently been edited, and the current copy resides in the transient data base. *Old* indicates a determination that exists *only* in the master data base. No edits exist for this record in the transient data base.

At the Record Selection Menu you have several options. As mentioned earlier, the <L> option stake you directly to a facility listing (similar to the list seen in the List Facilities View Screen). From this listing you may choose to edit one of the facilities on the list.

Another option is <E> Enter RBLC ID. If you choose this option, the system displays a pop-up box and prompts you to enter the RBLC ID of the record which you would like to update (Figure 5.5). If you do not have authority to update the records for the RBLC ID entered, the system displays a warning message, and you are denied access (Figure 5.6). Alternately, if you enter a RBLC ID that does not exist, the system displays an error message (Figure 5.7).

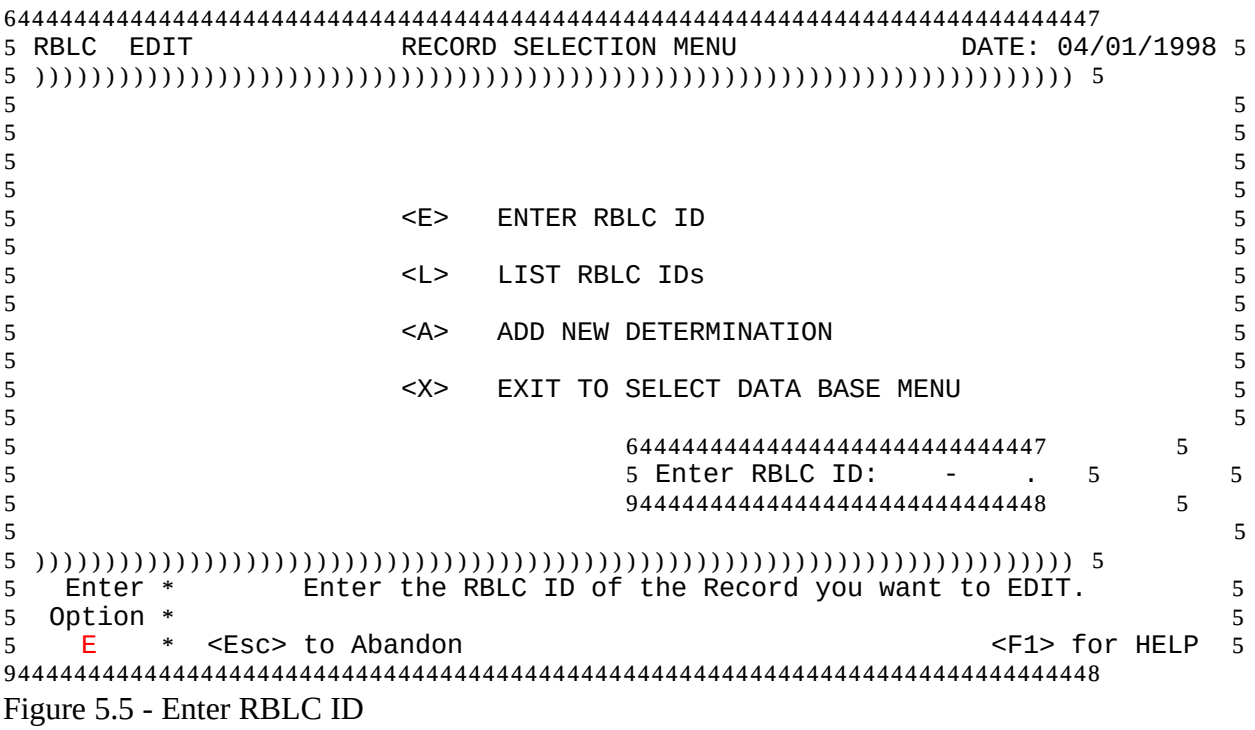

Figure 5.5 - Enter RBLC ID

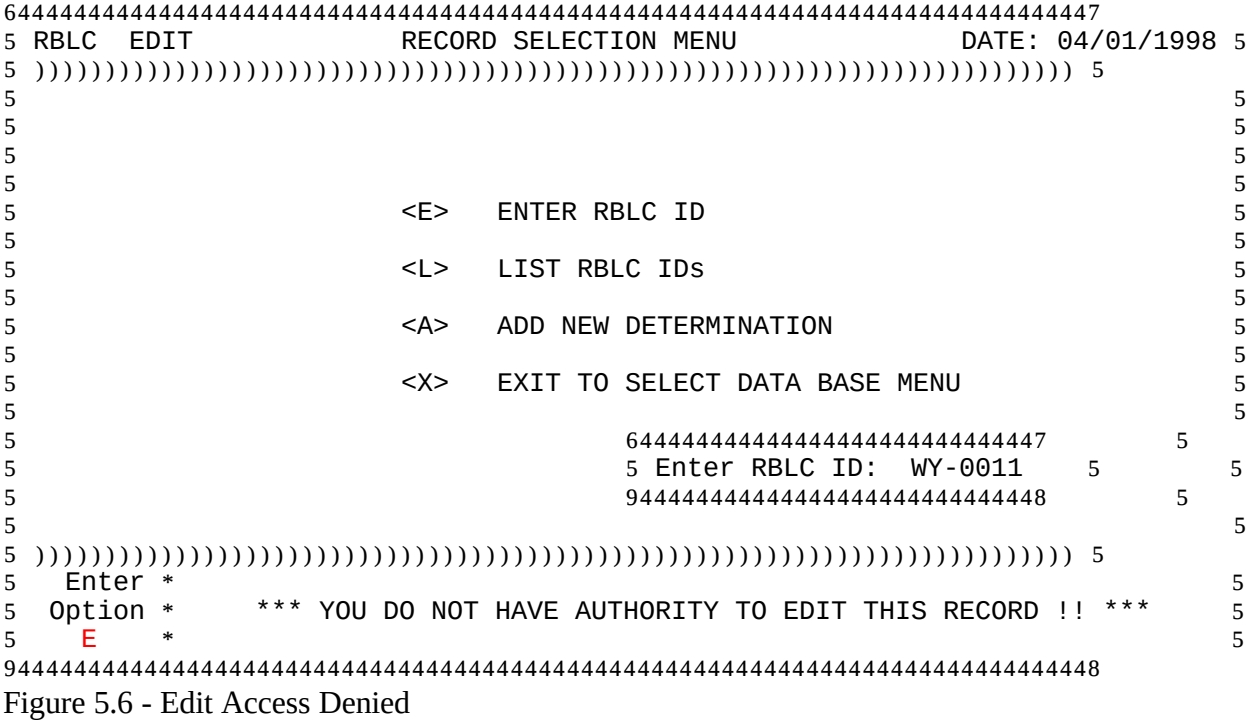

Figure 5.6 - Edit Access Denied

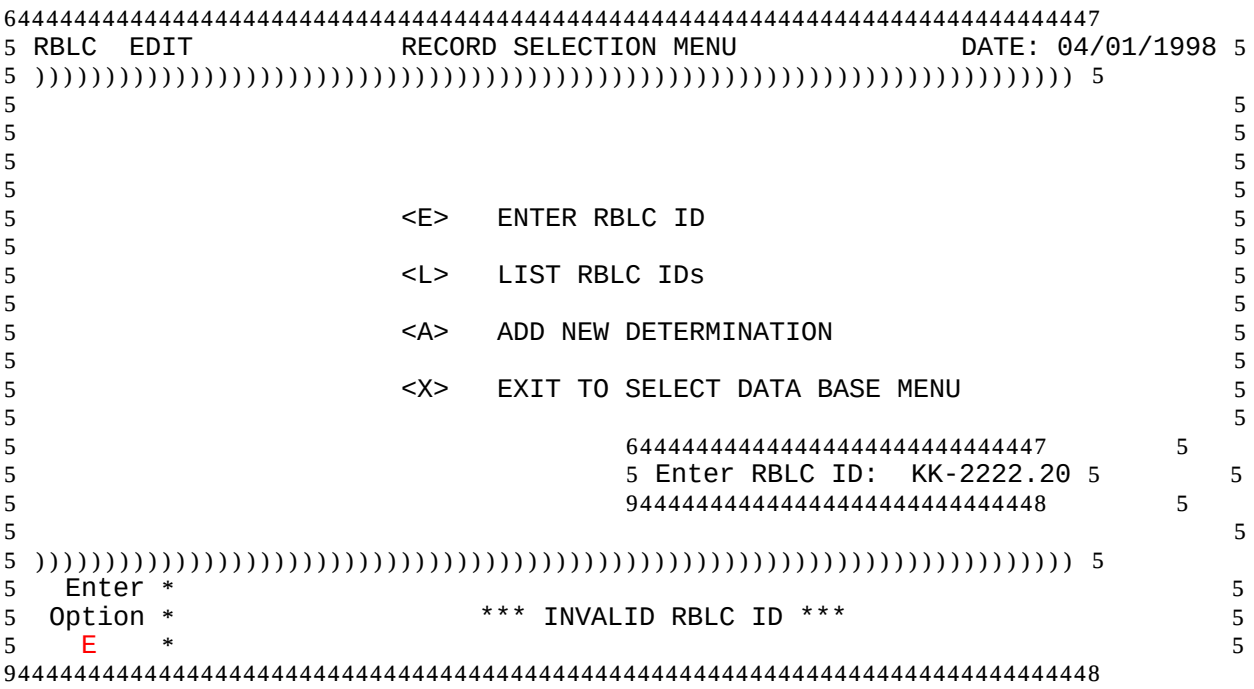

Figure 5.7 - Invalid RBLC ID

Choose <A> Add New Determination to input new information. The system assigns a unique RBLC ID to the determination based on your agency affiliation and displays a data entry screen. If you are associated with an EPA regional office or other agency that may have authority for multiple jurisdictions, the system prompts you for the state abbreviation of the state in which the facility is located (Figure 5.8). Using this information, the system assigns a RBLC ID to the determination and displays a screen onto which you can enter information. For information on adding a new determination, see Adding New Determinations to the Data Base later in this section.

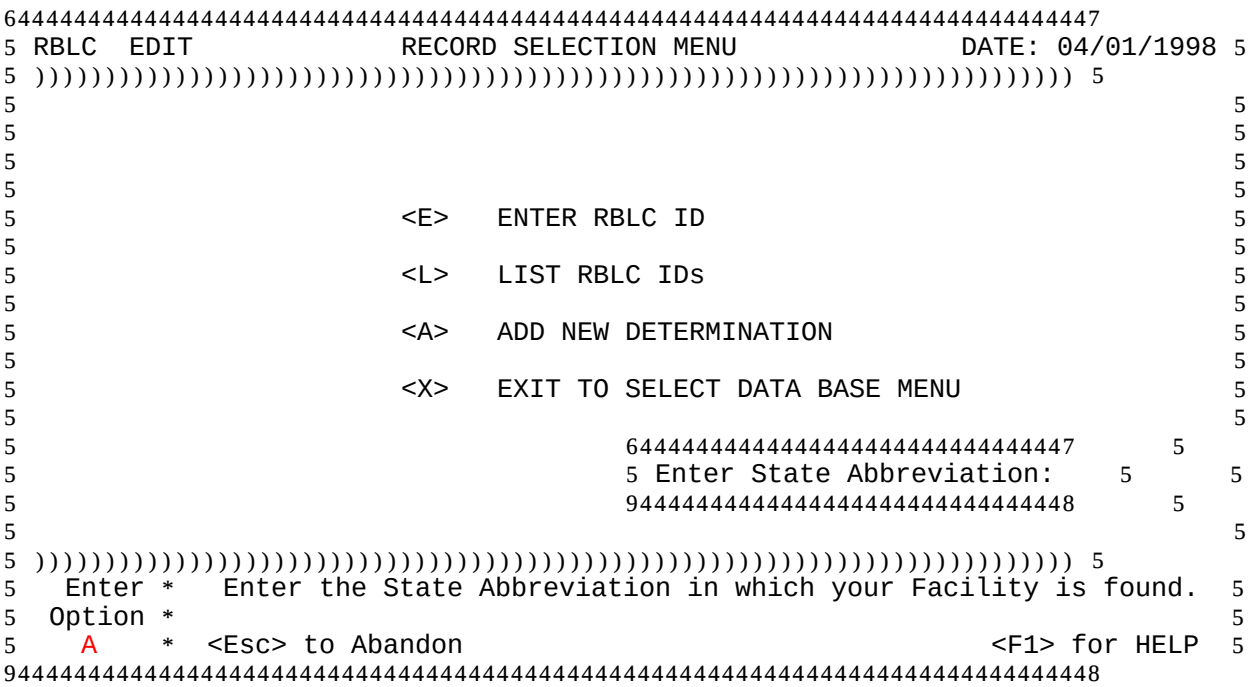

Figure 5.8 - Add New Facility Selected

Editing the Data Base

Editing the data base allows you to track the progress of your determinations, enter new information, or correct any mistakes you may find in your determinations.

After you choose <L> List RBLC IDs at the Record Selection Menu, the system presents you with a list of the facilities which you are authorized to edit (Figure 5.9). The list identifies the records you are authorized to update, and then displays the RBLC ID and facility name for each record, in order by facility name. Any new or edited determinations listed here have a letter displayed to the left of the RBLC ID that describes the status of the record. If no letter is displayed, then the determination is old.

```
644444444444444444444444444444444444444444444444444444444444444444444444447
5 RBLC  EDIT                     FACILITY LIST             DATE: 04/01/1998 5
5 )))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5                                                                           5
5 Record                                                                    5
5 Number    RBLC ID.SFX   Facility Name                                     5
5 ))))))    )))))))))))   )))))))))))))))))))))))))))))))))))))))))))))) 5
5 1         WA-0419       ARCO OIL AND GAS CO., RIO VIEJO SITE              5
5 2         WA-0413       BEAVER FALLS                                      5
5 3         WA-0022       JAMES RIVER CORP.                                 5
5 4         WA-0205       KALAMAZOO POWER LIMITED                           5
5 5         WA-0206       KAY AUTOMOTIVE GRAPHICS                           5
5 6         WA-0023       RINGLING BROTHERS, BARNUM AND BAILEY CIRCUS INC   5
5 7         WA-0208       SEMMERLING FENCE                                  5
5 8         WA-0418       SOUTHERN GAS                                      5
5 9         WA-0207       TUSCARORA PLASTICS, INC.                          5
5 10        WA-0095       UPF CORPORATION                                   5
5           "C" = complete          "I" = Incomplete          "D" = Deleted 5
5           New Determinations are listed first.                            5
5 )))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5   Enter * Enter Record Number to Select a Facility.              <F1> HELP 5
5  Option *                                                <Ctrl><R> to Page Up 5
5    1    * E<X>it to EDIT Menu                          <Ctrl><C> to Page Down 5
944444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 5.9 - Facility List

From the list presented, you may choose the facility to edit. In this case, let's say you decide to edit WA-0022. You enter the appropriate record number, in this case (3), and the system displays the process list for that particular facility. Figure 5.10 shows this process list. Selecting <E> Enter RBLC ID at the Record Selection Menu brings you directly to the process list.

```
644444444444444444444444444444444444444444444444444444444444444444444444447
5 RBLC  EDIT                   PROCESS LIST                DATE: 04/01/1998 5
5 )))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5                                                                           5
5 Facility:  WA-0022     JAMES RIVER CORP.                                  5
5                                                                           5
5 REC NO   Process Name                         Throughput Capacity         5
5 ))))))   )))))))))))))))))))))))))))))))))))) )))))))))))))))))))))))) 5
5 1        FURNACE, RECOVERY, #3                523.00 MMBTU/H              5
5 2        FURNACE, RECOVERY, #4                770.00 MMBTU/H              5
5 3        DISSOLVER VENT, SMELT, #3            0.00                        5
5 4        DISSOLVER VENT, SMELT, #4            0.00                        5
5 5        KILN, LIME & EVAPORATOR, BLOW HEAT   0.00                        5
5 6        BOILER, MAGNEFITE                    400.00 MMBTU/H              5
5 7        BOILER, POWER, #3                    345.00 MMBTU/H              5
5                                                                           5
5                                                                           5
5          "C" = Complete          "I" = Incomplete            "D" = Deleted 5
5 )))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5   Enter * Enter Record Number to Select a Process.               <F1> HELP 5
5  Option * <F>acility Level Data                          <Ctrl><R> to Page Up 5
5     1   * E<X>it to Facility List                      <Ctrl><C> to Page Down 5
944444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 5.10 - Process List

At the process list, you must know whether you are editing facility level information, process level information, or pollutant level information. To determine which level your data is, see Part 2 of this User's Manual. A very common area of editing is scheduling information, which is used for tracking the progress of a determination and permit; this information is stored at the facility level.

Although it is possible to edit almost all of the information for a determination, it is important to note two areas in which editing is restricted. First, it is possible to edit process information for a determination, but it is not possible to *add* a process to or to delete a process or pollutant from an existing determination. For tracking purposes, it is necessary for any new processes to be added as part of a *new* determination. In this case, you must choose <A> Add New Facility at the Record Selection Menu and reenter the facility information and the information for the new process.

Agency Codes and Agency Names are the second area in which the edit function is restricted. You cannot change these fields once they have been entered into the data base. If a determination has an error or if an agency name is changed due to reorganization, please contact the RBLC System Administrator at (919) 541-2736. He or she has the authority to make this change for you.

The last area where editing is restricted is the RBLC ID (and suffix where applicable). Because this information is system-generated, it is never entered or edited by you.

If you choose <F> Facility Level Data at the Process List, the system displays the facility level information as seen in Figure 5.11. You can choose to edit or delete the data or view the notes.

The 'complete' or 'incomplete' indicator displayed in the upper right corner of the screen (see Figure 5.12) tells the RBLC System Administrator (SA) whether the determination is complete and ready to be moved to the RBLC permanent data base. All new determinations are initially marked 'incomplete' until the quality assurance (QA) review is conducted. This indicator is toggled to 'complete' if the determination passes the QA review. You cannot change this indicator. Periodically, the RBLC SA will review the determinations in the transient data base which have been marked 'complete'. If all of the required fields are complete, the RBLC SA will promote the determination to the permanent RBLC data base. Alternatively, if the RBLC SA decides that the determination is not complete, he or she will toggle it back to incomplete and send a notice to the person authorized to edit the determination. For information about the required fields, see Adding New Determinations to the Data Base later in this section.

```
RBLC  EDIT                    FACILITY  DATA                DATE: 04/01/1998
WA-0022    JAMES RIVER CORP.
ADDR: 1000 COMPUTER CIRCLE            CITY: CAMAS
COUNTY: WAKE                            ST: WA  ZIP: 27621          REG: 10

                                                          ENTERED: 04/24/1989
AGENCY: WA999-WASHINGTON DEPARTMENT OF THE ENVIRONMENT UPDATED: 01/31/1992
CONTACT:  ALAN BUTLER                                          Est/Act Date
  PHONE:  (206)649-7103                             APPL RCPT: ACT 04/04/1985
PERMIT/FILE #: PSD-88-3 & DE-88-360 MODIFICAT PERMIT ISSUE: ACT 09/26/1991
   SIC:                                              START-UP: ACT 07/01/1990
AIRS ID:                                          COMPL VERIFY: ACT 03/01/1990
FACILITY NOTES:




  Enter * <E>dit Facility     <D>elete Facility                      <F1> HELP
 Option * Exit to <F>acility List                        <Ctrl><R> to Page Up
        * E<X>it to Process List    View <N>otes    <Ctrl><C> to Page Down
```

Figure 5.11 - Facility Data Screen

```
RBLC  EDIT                    FACILITY  DATA                DATE: 04/01/1998
WA-0022    JAMES RIVER CORP.                                          COMPLETE
ADDR: 1000 COMPUTER CIRCLE            CITY: CAMAS
COUNTY: WAKE                            ST: WA  ZIP: 27621          REG: 10

                                                          ENTERED: 04/24/1989
AGENCY: WA999-WASHINGTON DEPARTMENT OF THE ENVIRONMENT UPDATED: 01/31/1992
CONTACT:  ALAN BUTLER                                          Est/Act Date
  PHONE:  (206)649-7103                             APPL RCPT: ACT 04/04/1985
PERMIT/FILE #: PSD-88-3 & DE-88-360 MODIFICAT PERMIT ISSUE: ACT 09/26/1991
   SIC:                                              START-UP: ACT 07/01/1990
AIRS ID:                                          COMPL VERIFY: ACT 03/01/1990
FACILITY NOTES:




  Enter * <E>dit Facility     <D>elete Facility                      <F1> HELP
 Option * Exit to <F>acility List                        <Ctrl><R> to Page Up
        * E<X>it to Process List    Edit <N>otes    <Ctrl><C> to Page Down
```

Figure 5.12 - Record Flagged as Complete

If you choose to <E> Edit Facility at the Facility Data screen, the system displays all facility level information for the determination. All fields that may be edited are highlighted on screen. See

Figure 5.13. You must press the Enter key to move the cursor to the field(s) that you would like to edit and type in the new information. If you have questions regarding valid information for a field, press F1 for HELP. The RBLC HELP system is context-sensitive and provides information for this particular field. To edit the notes, choose <N> Edit Notes at the Facility Data screen.

```
RBLC  EDIT                    EDIT FACILITY DATA            DATE: 04/01/1998
WA-0022    JAMES RIVER CORP.                                          COMPLETE
ADDR: 1000 COMPUTER CIRCLE            CITY: CAMAS
COUNTY: WAKE                            ST: WA  ZIP: 27621          REG: 10

                                                          ENTERED: 04/24/1989
AGENCY: WA999-WASHINGTON DEPARTMENT OF THE ENVIRONMENT UPDATED: 01/31/1992
CONTACT:  ALAN BUTLER                                              Est/Act Date
  PHONE:  (206)649-7103                             APPL RCPT: ACT 04/04/1985
PERMIT/FILE #: PSD-88-3 & DE-88-360 MODIFICAT PERMIT ISSUE: ACT 09/26/1991
   SIC:                                            START-UP: ACT 07/01/1990
AIRS ID:                                        COMPL VERIFY: ACT 03/01/1990
FACILITY NOTES:




                        <Ctrl><W> to Save Facility Data

      <Esc> to Abandon and Exit                                 <F1> HELP
```

Figure 5.13 - Edit Option Selected from Facility Data Screen (Figure 5.11)

After you input all the facility information, the system validates the information in key fields. You must enter a non-blank facility name and specify "New/Mod" for the determination. The data can be saved if the information in each field is in the proper format, i.e. dates before the present date in certain date fields, specific numeric ranges in numeric fields.

Another option which you may choose at the Facility Data screen (Figure 5.11) is to <D> Delete Facility. This option allows the facility data and any processes and pollutants associated with the facility to be deleted from the transient data base (see Figure 5.14).

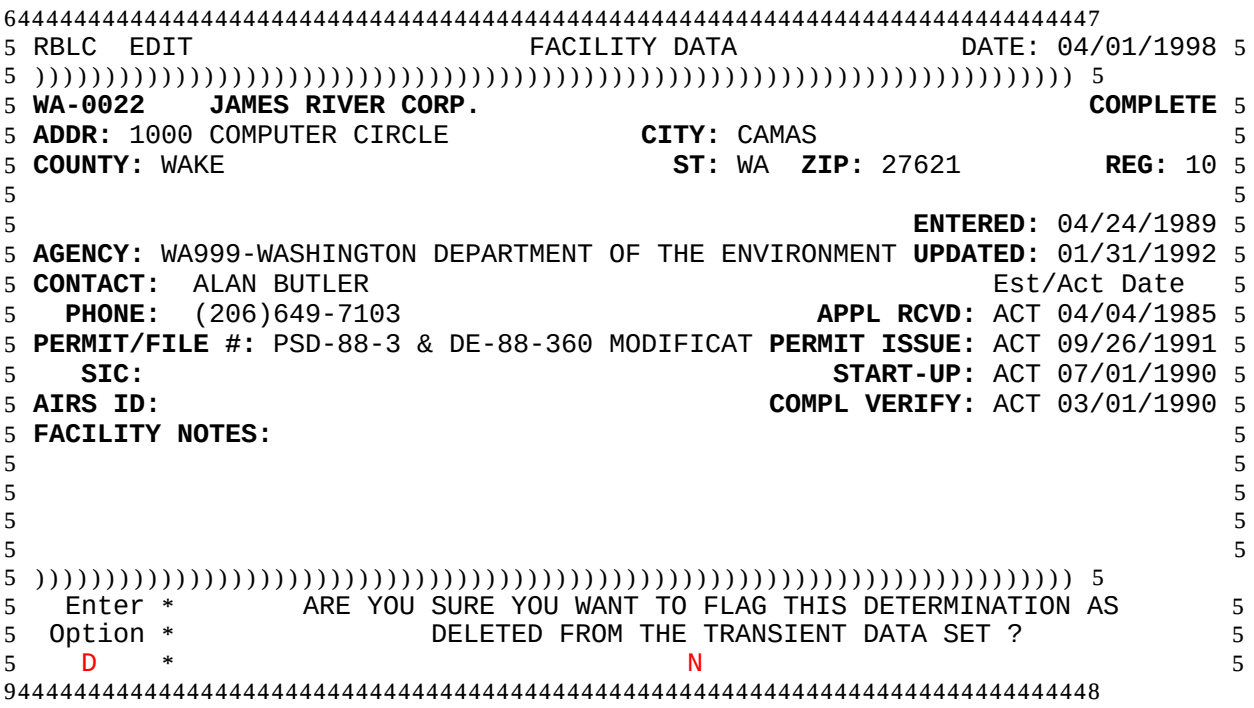

Figure 5.14 - Delete Option Selected from Facility Data Screen

Selecting to delete a determination from the transient data base actually *flags* all the records for that determination as deleted. You can still see the determination but cannot edit it. The word "DELETED" appears in the upper right corner of the screen. For edited determinations, you can choose to copy the original data from the master data base to the transient data base instead of flagging the determination as deleted. Any deleted records are permanently removed from the transient data base when records are promoted to the master data base. If you have chosen to delete a determination in error, you may *un*delete. This simply removes the flags from each record and the records can be edited as before. Note that only new or edited determinations may be deleted/undeleted.

Using the current example of the James River Corporation, you have now viewed the facility list, chosen the first facility, and edited the facility level information. Now it is time to edit the process level information. After saving the changes to the facility level information, choose <X> to return to the Process List. You may now E<X>it to Facility List or enter a record number to select a process. See Figure 5.10 to review the process list. Assume that you want to edit information for the first process, Furnace, Recovery, #3. Press the Enter key to select process number one. The system displays the Pollutant List for the process (see Figure 5.15). At this screen, you may choose to edit the process data or view the information for a specific pollutant, or add a new pollutant to this process. Figure 5.16 displays the screen which you would see after choosing <P> Process Data. At this screen, you may choose to return to a previous screen, <E> Edit Process information, or <D> Delete Process information.

```
RBLC  EDIT                        POLLUTANT LIST              DATE: 04/01/1998

Facility: WA-0022.AA JAMES RIVER CORP.
Process:  FURNACE, RECOVERY, #3                    523.00 MMBTU/H

REC NO   Pollutant         Primary Emission Limit              Basis
1        PM10              0.0330 GR/DSCF AT 8% O2             BACT
2        VE                20.0000 % OPACITY                   BACT
3        SO2               10.0000 PPM AT 8% O2                BACT
4        NOX               2.1300 LB/ADUT                      BACT
5        CO                2755.0000 T/YR                      BACT
6        VOC               219.0000 T/YR                       LAER
7        TRS               5.0000 PPMDV AT 8% O2, 12H          BACT

  Enter * Enter Record Number to Select Pollutant Data.          <F1> HELP
 Option * Exit to <E>DIT Menu       <A>dd Pollutant   <Ctrl><R> to Page Up
    1    * E<X>it to Process List   <P>rocess Data   <Ctrl><C> to Page Down
```

Figure 5.15 - Pollutant List

```
RBLC  EDIT                      PROCESS DATA                  DATE: 04/01/1998
WA-0022    JAMES RIVER CORP.

PROCESS: FURNACE, RECOVERY, #3

PROCESS TYPE: 11.999                    HAS COMPLIANCE BEEN VERIFIED?    Y
SCC CODE:                               IF YES, HOW?   STACK TESTING?    N
PRIMARY FUEL:                                            INSPECTIONS?    N
THROUGHPUT:  523.00 MMBTU/H                             CALCULATIONS?    Y
                                                        OTHER TESTING?   Y
                                        DESCRIPTION:

PROCESS/COMPLIANCE NOTES:

  Enter * Exit to EDIT <M>enu             <D>elete Process       <F1> HELP
 Option * Exit to <P>rocess List    <E>dit Process    <Ctrl><R> to Page Up
        * E<X>it to Pollutant List                  <Ctrl><C> to Page Down
```

Figure 5.16 - Process Data Screen, user may now choose to edit information

Figure 5.17 displays the screen used to edit process information (RBLC highlights all fields that may be edited). As with the facility information, you may press F1 to access HELP at any point while editing process information.

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5 RBLC  EDIT                EDIT PROCESS DATA              DATE: 04/01/1998 5
5 ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5 WA-0022    JAMES RIVER CORP.                                               5
5                                                                            5
5 PROCESS: FURNACE, RECOVERY, #3                                             5
5                                                                            5
5 PROCESS TYPE: 11.999                  HAS COMPLIANCE BEEN VERIFIED?    Y  5
5 SCC CODE:                             IF YES, HOW?   STACK TESTING?    N  5
5 PRIMARY FUEL:                                          INSPECTIONS?    N  5
5 THROUGHPUT:   523.00  MMBTU/H                        CALCULATIONS?    Y  5
5                                                      OTHER TESTING?    Y  5
5                                       DESCRIPTION:                         5
5                                                                            5
5 PROCESS/COMPLIANCE NOTES:                                                  5
5                                                                            5
5                                                                            5
5                                                                            5
5                                                                            5
5 ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))) 5
5                        <Ctrl><W> to Save Process Data                      5
5                                                                            5
5       <Esc> to Abandon and Exit                          <F1> HELP         5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 5.17 - Edit Process Screen, fields to be edited will be highlighted

Deleting a process from a new determination flags the process record and all the associated pollutant records, just the same as deleting from the facility level. For edited determinations, the original process and pollutant data from the master data base is copied to the transient data base. Undeleting a process works exactly the same at the process level as it does at the facility level.

Remember, only new or edited determinations may be deleted/undeleted.

To edit pollutant information, follow the same steps as you did to edit facility and process level information. First, you must choose a pollutant from the Pollutant List. Then the system displays the Pollutant Data screen (see Figure 5.18). At this point, you may choose to <D> Delete Pollutant or <E> Edit Pollutant information. If you choose to edit the information, the Edit Pollutant screen appears with the appropriate fields highlighted (see Figure 5.19). As with facility and process level information, you can access HELP at any point while editing pollutant data by pressing F1.

```
RBLC  EDIT                    POLLUTANT DATA              DATE: 04/01/1998
WA-0022    JAMES RIVER CORP.
PROCESS:   FURNACE, RECOVERY, #3                  523.00 MMBTU/H
POLLUTANT: PM10                CAS NUMBER:
POLLUTION PREVENTION/ADD-ON CONTROL EQUIP/BOTH/NO CONTROLS FEASIBLE:  A
POLL. PREVENT./ADD-ON   ESP W/HEAT RECOVERY SCRUBBER
          DESCRIPTION:

NUMBER OF CONTROL OPTIONS CONSIDERED:  0  RANK OF OPTION SELECTED:  0
EMISSION LIMITS:
      PRIMARY:        0.0330 GR/DSCF AT 8% O2         BASIS:  BACT
    ALTERNATE:      328.0000 T/YR                  % EFFICIENCY:   99.500
 STANDARDIZED:        0.0000                      EMISSION TYPE:  P

COST DATA:        VERIFIED BY AGENCY: N  YEAR USED IN COST ESTIMATES:
    CAP COST OF CONTROL EQUIP: $      0.00    ANNUALIZED COST: $      0.00
    O/M COST OF CONTROL EQUIP: $      0.00 COST EFFECTVNS. $/TON      0.00
  Enter * Exit to EDIT <M>enu                              <D>elete Pollutant
 Option * Exit to <P>rocess List   <E>dit Pollutant   <Ctrl><R> to Page Up
        * E<X>it to Pollutant List     <F1> HELP    <Ctrl><C> to Page Down
```

Figure 5.18 - Pollutant Data Screen

```
RBLC  EDIT                 EDIT POLLUTANT DATA            DATE: 04/01/1998
WA-0022    JAMES RIVER CORP.
PROCESS:   FURNACE, RECOVERY, #3                  523.00 MMBTU/H
POLLUTANT: PM10                CAS NUMBER:
POLLUTION PREVENTION/ADD-ON CONTROL EQUIP/BOTH/NO CONTROLS FEASIBLE:  A
POLL. PREVENT./ADD-ON   ESP W/HEAT RECOVERY SCRUBBER
          DESCRIPTION:

NUMBER OF CONTROL OPTIONS CONSIDERED:  0  RANK OF OPTION SELECTED:  0
EMISSION LIMITS:
      PRIMARY:        0.0330 GR/DSCF AT 8% O2         BASIS:  BACT
    ALTERNATE:      328.0000 T/YR                  % EFFICIENCY:   99.500
 STANDARDIZED:        0.0000                      EMISSION TYPE:  P

COST DATA:        VERIFIED BY AGENCY: N  YEAR USED IN COST ESTIMATES:
    CAP COST OF CONTROL EQUIP: $      0.00    ANNUALIZED COST: $      0.00
    O/M COST OF CONTROL EQUIP: $      0.00 COST EFFECTVNS. $/TON      0.00
                    <Ctrl><W> to Save Pollutant Data

      <Esc> to Abandon and Exit                              <F1> HELP
```

Figure 5.19 - Edit Pollutant Screen

You may continue to edit processes and pollutants for a facility determination until all edits are complete. Once the edit process is complete for the first determination, exit to the Facility List.

At that point, you may choose to E<X>it to Edit Menu or select another facility for which you have update authorization. If you were editing an individual RBLC ID, the E<X>it option from the process list returns you to the Edit menu.

Adding New Determinations to the Data Base

At the Record Selection Menu (Figure 5.4), you may choose to <A> Add New Determination to the RBLC data base. Using this information, the system will assign a unique RBLC ID to the new determination.

The information for the determination does not have to be complete in order to add a determination to the RBLC data base. You can use the system as a tracking tool while a determination or permit is being developed. The scheduling data, stored at the facility level in the RBLC data base, is designed specifically as a tracking aid for air pollution control personnel.

Although the information for a determination does not have to be complete, the RBLC does have certain restrictions with regard to minimum information. For each RBLC determination, you must input at least one process and one pollutant. Only six fields are needed to save the new determination: facility name, NEW/MOD status, process name, process type code, pollutant name, and control method code.

The RBLC also has certain restrictions with regard to information required for a determination to be considered as complete and eligible for promotion to the permanent RBLC data base. Data for most of the searchable fields must be entered before a determination will be promoted. These restrictions help insure that searches will be productive and that the data base contains information that is helpful to most users. Complete determinations must have data for the following RBLC required fields:

- Facility name
- SIC code
- Permit number
- Permit issued date
- Process name
- Process type code
- SCC code
- Pollutant name
- CAS number
- Control method code
- Control method description
- Basis for limit
- Overall percent efficiency
- Emission type

On-line help is available for Standard Industrial Classification (SIC) codes. SIC and Source Classification Codes (SCC) are available for downloading from the RBLC BBS, in either a dBASE III+ file format or as ASCII text. If you do not have access to this or any other source for these codes, for each process, provide a description of the specific process, including fuel, capacity, and product as appropriate. CAS numbers are not required for generic pollutants such as VOC or PM. If no controls are feasible, enter "N" as the control method code. You do not need to provide a description.

Also, you should not input information until you are certain that you have listed all processes for the facility. You cannot add processes to an existing facility determination. If, for example, a facility makes a modification and adds a process, you must reenter all facility information and add the process information to this new RBLC determination.

Once the system has assigned a unique RBLC ID to the facility, you are ready to input the information for the determination. Remember, the system has context-sensitive HELP throughout the Add process. If you do not understand the type of information that the system requires, just press F1 to view an appropriate HELP screen.

After choosing to add a new facility at the Record Selection Menu, the system will prompt you whether a determination exists from which it should copy facility information. Often, several determinations exist for one facility. You can copy the facility information to the new determination. If you answer 'yes' to the prompt to copy information, the system will ask for a RBLC ID. From this ID, it will copy the information into the Add Facility screen.

After receiving an answer, 'yes' or 'no', the system will display the Add Facility screen with or without the copied information (see Figure 5.20). Note the new RBLC ID in the upper left-hand corner. Unless facility information was copied, all fields on this screen are blank except the following:

- State abbreviation
- U.S. EPA region
- Date of determination entry (current date)
- Agency Code and Name
- Date of last update (current date)

Enter all facility information for the determination and save the information. The system will provide a message stating that you must now enter process data for the facility (Figure 5.21).

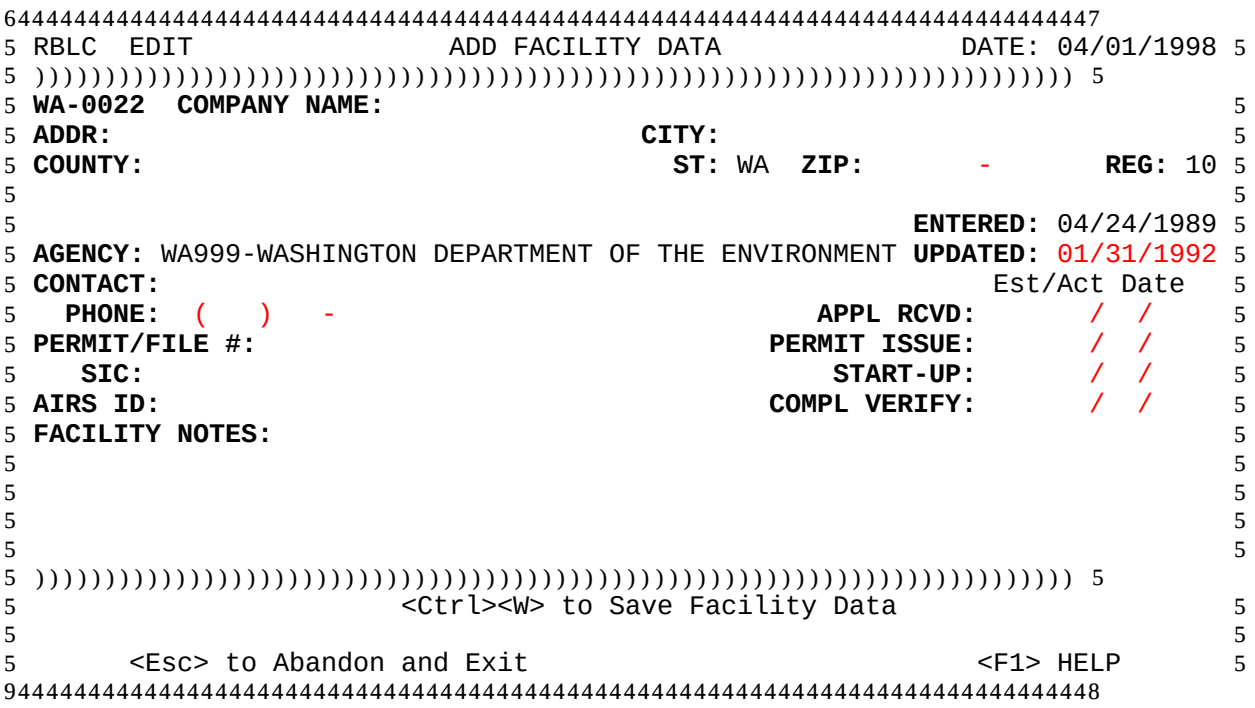

Figure 5.20 - Add Facility Screen

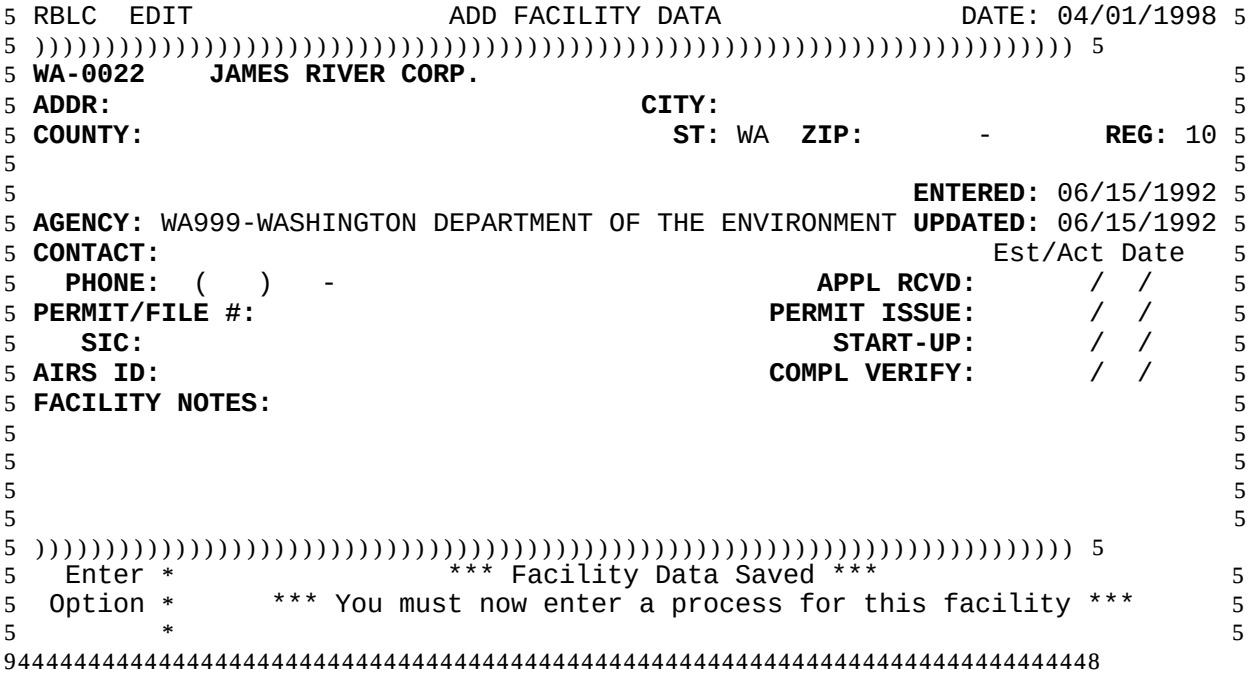

Figure 5.21 - Facility Data Saved, the user must enter process data.

The next screen that you will see is the Add Process screen (Figure 5.22). You can enter the process data for the first process. If you press <Esc>, a message will ask you if you want to start

over with a new process or quit the entire add procedure. If you choose to quit, the system will delete the facility data and return you to the Record Selection Menu screen. Again, F1 will provide HELP at any point while adding process information. After the process data is input and saved, the system will prompt you to enter the pollutant data (see Figure 5.23).

```
RBLC  EDIT                  ADD PROCESS DATA                 DATE: 04/01/1998
WA-0022    JAMES RIVER CORP.

PROCESS:

PROCESS TYPE:                              HAS COMPLIANCE BEEN VERIFIED?    N
SCC CODE:                                  IF YES, HOW?   STACK TESTING?    N
PRIMARY FUEL:                                               INSPECTIONS?    N
THROUGHPUT:      0.00                                     CALCULATIONS?    N
                                                          OTHER TESTING?    N
                                           DESCRIPTION:

PROCESS/COMPLIANCE NOTES:




                        <Ctrl><W> to Save Process Data

       <Esc> to Abandon and Exit                                <F1> HELP
```

Figure 5.22 - Add Process Screen

The final screen that you will see is the Add Pollutant screen (Figure 5.24). You can enter the pollutant data for the first process. If you press <Esc>, a message will ask you if you want to start over with a new pollutant or quit the entire add procedure. If you choose to quit, the system will delete the facility data and process data and return you to the Record Selection Menu screen. Again, F1 will provide HELP at any point while adding pollutant information.

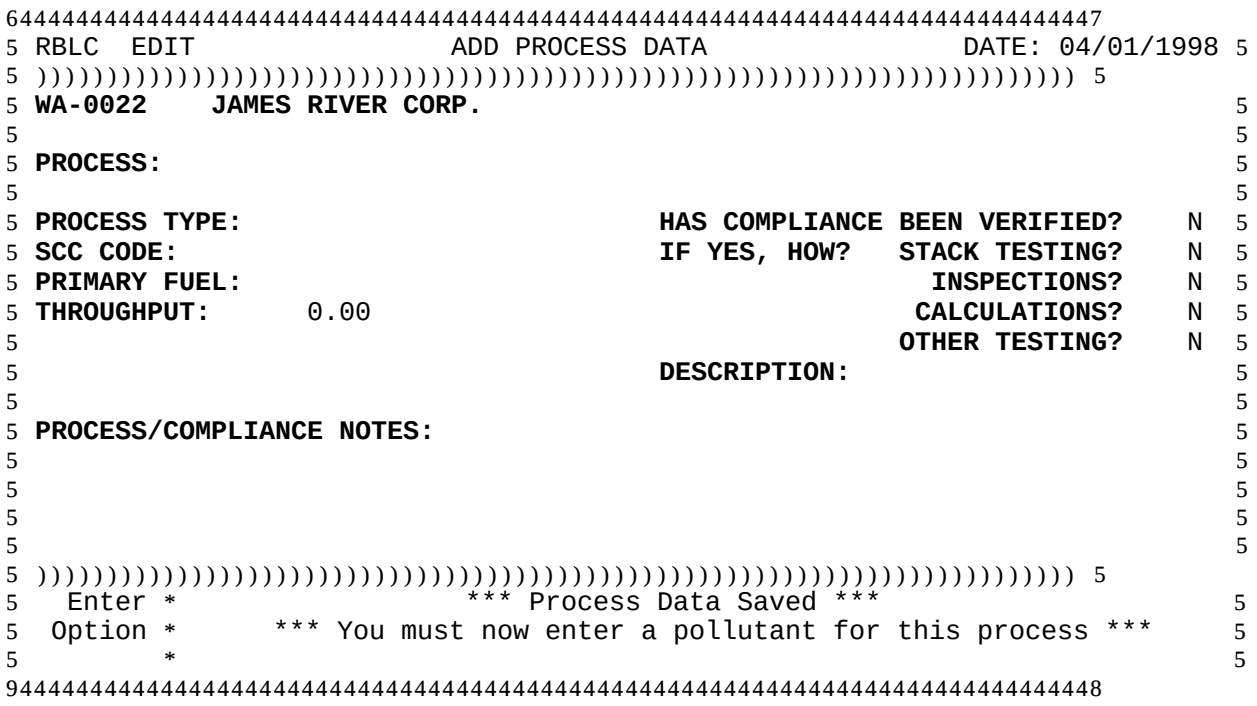

Figure 5.23 - Process Data Saved, the user must enter the pollutant data.

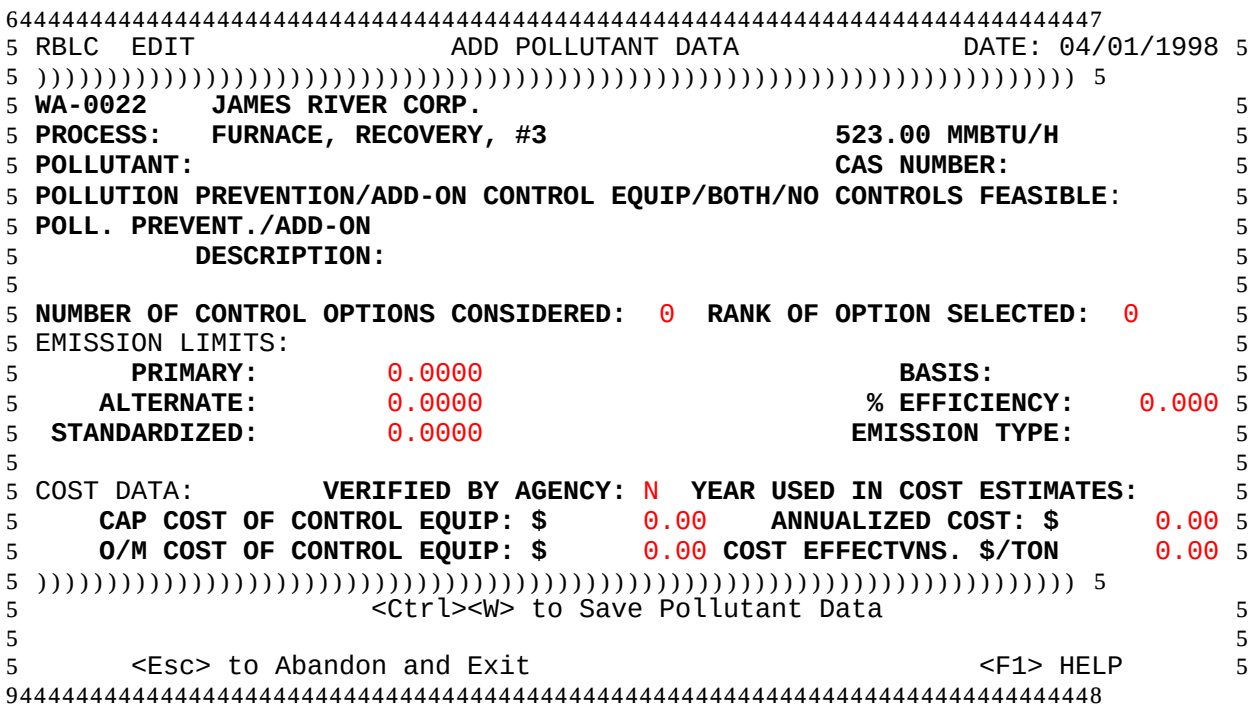

Figure 5.24 - Add Pollutant Screen

Once the pollutant data is input and saved, the system allows you to enter another pollutant or enter another process with its associated pollutants. Be sure to enter all processes for the

determination, because you cannot add a process to an existing determination. You can, however, add pollutants to processes in existing determinations. The system exits to the Record Selection menu when you do not want to add any more processes or pollutants.

At the Record Selection menu, you can enter additional new determinations or edit any existing determinations for your agency. If necessary, you can also edit new or edited determinations and delete them. Your additions and changes remain in the RBLC transient data base until the RBLC System Administrator reviews the data for accuracy and completeness. Use the Query module and select the transient data base if you want to download your new determinations. The free-format download format lets you see all of the data you entered. This report also shows you how your data stands with regard to promotion to the permanent RBLC data base because an asterisk (*) appears next to each required field in the free-format report.

Information may be submitted to the RBLC by filling out an Input form and mailing it to the RBLC SYSOP. If you would prefer to enter information this way, you may download the Input form in PDF format from the CATC Products section of the CATC web site. You may also obtain Input forms by calling the RBLC SYSOP, Joe Steigerwald at (919) 541-2736. Be sure that you are using the most recent version of the input form, because the data fields used in the RBLC data base change. If you are using an out-of-date form, you may be missing required information or trying to provide information that is no longer stored in the data base. The following instructions explain how to complete the Input form and how to submit it.

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. **Determination Made by:** Designate the permitting agency and the person to whom telephone requests should be directed. This should be the person most capable of responding to factual questions about the permit decision. Please include the area code with the phone number.

3. **Permit/File Number:** This should be the identification number assigned by the agency that issued the permit.

4. **ID Numbers and Codes:** Fill-in the requested AIRS identification number, if available, and the SIC code.

5. **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.

6. **Permit Parameters:** 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.

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

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

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

9. **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.

10. **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.

11. **Pollutant(s) Emitted:** make an entry for each pollutant or parameter for which a control requirement or other restraint has been specified (PM, SO_2 CO_2, NO_2, 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_2S	Hydrogen Sulfide
Hg	Mercury
VC	Vinyl Chloride

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

12. **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.

13. **Type of Emission Controlled:** A one-character field indicating whether the emission is fugitive, point-source, or area-source.

14. **Control Option Ranking Information:** Two pieces of information are requested: The number of control options examined and the rank of the control option selected. The "rank" is the number of the control option selected when the options are ordered according to the performance of the control system. Number 1 would be the best control system, number 2 would be the next best, etc.

15. **Regulatory Requirements Associated with 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

16. **Control 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.

17. **Overall Efficiency %:** Enter the overall system 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."

18. **Cost Data:** Control costs include:

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

19. **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
* 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)

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

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

USER'S MANUAL FOR THE RBLC DATA BASE

Part 6 -- Using the Standalone Editor

The on-line Edit option described in the previous section allows designated users to enter and update their agencies' RACT/BACT/LAER control technology determinations directly, rather than mailing input forms to EPA Headquarters for subsequent entry or correction. Now the PC-based Editor simplifies the process even further. While the on-line version of the RBLC data base allows users to share the latest determination information in a timely manner, on-line data entry has some drawbacks. On-line access requires a communication path, whether a modem and direct dial or an Internet connection, and response time may seem slow as RBLC users compete with other users accessing the growing number of applications on the TTN. To get around these drawbacks, the CATC has developed a standalone version of the RBLC Edit module for entering ***new*** determinations only.

The PC-based Editor is available to any users authorized to input determinations for their agency. All you need is a PC with a hard drive. Obtain a copy of the system by downloading it from the Products section of the CATC web site. Follow the straightforward installation procedure, and you are ready to use the standalone Editor. After entering new determinations with the Editor, forward the data to the RBLC for inclusion on the TTN. As with on-line submittals, the data is initially placed into a searchable transient data base where quality assurance procedures are performed. Once the data is checked, it is promoted into the current RBLC data base. The on-line Edit option gives you access to any of your agency's current entries on the RBLC BBS.

Installing the Editor

The RBLC Editor is an independently executable program designed to run on an IBM-compatible PC. (The system was not designed to operate on a LAN). No special software licenses are required. To run the RBLC Editor, you need an IBM-compatible PC with a hard drive that has at least 2 Mbyte free disk space. (The system itself uses about 1 Mbyte, and you should have around 1 Mbyte for your data files). You also should have the latest versions of the file compression programs PKZIP and PKUNZIP (version 2.04G). You can find these programs on the TTN in the System Utilities section. The editor runs fine under DOS, Windows 3.x, or Windows 95.

The quickest way to get started with the Editor is to download a compressed version of it from the RBLC web site (or the BBS). To install the download version of the system, follow these steps.

1. Download the file for the standalone editor from the documents section of RBLC web site. On the RBLC BBS, the file name is `RBLCEDIT.ZIP`.

2. On your hard drive, create a directory named `\RBLC`.

3. Change your working directory to `\RBLC` and decompress the ZIP file, using `PKUNZIP`.

4. Copy the file `RBLCEDIT.BAT` to your root directory. This batch file lets you run the RBLC Editor without modifying your path. It also sets an environment variable needed by the Editor.

5. If you do not already have a copy of the latest version of PKZIP, download this file from the TTN System Utilities menu. Place the file `PKZIP.EXE` in the `\RBLC` directory or in a directory that is part of your path.

6. To run the RBLC Editor, type `RBLCEDIT` at the DOS prompt.

Using the Editor to Build Your Data Base

The standalone PC-based Editor works in much the same way as the on-line RBLC data entry module available on the TTN to authorized users. When you have completed the data entry (remember, only new determinations can be entered using the standalone Editor), you e-mail (or mail) your data files to EPA for inclusion in the on-line RBLC data base.

To use the Editor, type "RBLCEDIT" from the DOS prompt on your PC (or execute the file `RBLCEDIT.BAT` in the directory you created). An introductory screen appears followed by the Main menu (Figure 6.1). The Main menu has options to edit determinations, generate a report file from the data, and prepare data files for uploading. If you have any questions about what to enter, press <F1> for context-sensitive help.

Begin by selecting the <B> option to add one or more new determinations to your data base. When you choose this option, the facility list appears (Figure 6.2).

Enter the record number to edit a previously entered determination that you want to update. You can select one or more determinations from this list to edit. Select <Z> to delete **ALL** of the determinations in your data base. Use this option if you want to start over or if you have already forwarded your data to the RBLC System Administrator.

The options at the Edit menu work like their counterparts in the on-line Edit module. For details on how to add or modify determinations with the RBLC Editor, refer to Part 5 of this User's Manual. Be sure to look at the submittal form and instructions for completing it. This form may assist you in preparing your data for input.

This list displays all determinations currently in your PC data base. If you have not entered any determinations into your data base yet, the system forces you to add a facility before displaying

the facility list. You can add or change facilities from the facility list. To delete a facility, you must move to the facility data screen.

```
RBLC EDITOR                      MAIN MENU                    DATE: 04/01/1998

                    <B>   EDIT RBLC DATA BASE

                    <R>   CREATE REPORT FROM DATA BASE

                    <F>   PREPARE FILES FOR UPLOADING

                    <X>   EXIT TO DOS

   Enter *        Press the appropriate letter to select option
  Option *                or press <F1> for HELP.
         *
```

Figure 6.1 - Editor Main Menu

```
RBLC EDIT                       FACILITY LIST                    DATE: 04/01/1998
Record
Number    RBLC ID       Facility Name
      1      I  VA-0003       QUEBECOR PRINTING RICHMOND
      2      C  VA-0002       ROANOKE ELECTRIC STEEL CORPORATION
      3      I  VA-0001       VPI & STATE UNIVERSITY
      4      I  VA-0004       VPI POWER PLANT

                    "C" = Complete       "I" = Incomplete       "D" = Deleted
   Enter * Enter Record Number to Edit a Facility.                    <F1> HELP
  Option * <A>dd a New Facility                          <Ctrl><R> to Page Up
   1     * E<X>it to MAIN Menu  <Z>ap All Facilities <Ctrl><C> to Page Down
```

Figure 6.2 - Facility List

Select <A> to add a new determination. When you add a determination, the standalone Editor assigns a temporary RBLC ID. Use these IDs if you want to update determinations entered on your local PC. **Permanent RBLC IDs will be assigned by the RBLC System Administrator when your data is added to the on-line data base.**

Make as many additions or changes as you like with the RBLC Editor. You can even add processes (something you cannot do on the RBLC BBS). All data is local to your PC until you transfer your files to the RBLC System Administrator. **Please note that you cannot use the standalone editor to edit determinations previously entered into the on-line RBLC data base.**

Creating a Report from Your Data Base

The Report option lets you create an ASCII text file of your data that you can print if you want a hard copy of your data. Of course, you could also wait until your determinations are added to the on-line data base, and then use one of the Query download formats to get a formatted copy of your data. When you select the <R> option from the Main menu, the Report menu appears (Figure 6.3).

```
RBLC EDITOR                    REPORT MENU                  DATE: 04/01/1998

                    <A>   REPORT DATA ENTERED AFTER   /  /

                    <R>   CREATE REPORT FILE

                    <X>   EXIT TO MAIN MENU

   Enter *          Press the appropriate letter to select option
  Option *                   or press <F1> for HELP.
        *
```

Figure 6.3 - Report Menu

The Report menu gives you a choice of reporting all or only part of your data. The program uses the date you first added a determination to your data base in deciding whether or not to include an individual determination in the report. When you select <A> from the Report menu to enter a beginning date for your report, the cursor moves to the date field on the menu (Figure 6.4). Enter

any date in a MM/DD/YYYY format. The report will contain only the records entered on or after this date. If you want to report all your determinations, you do not need to specify a date.

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC EDITOR                    REPORT MENU                  DATE: 04/01/1998  5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                    <A>   REPORT DATA ENTERED AFTER 07/01/1994                 5
5                                                                               5
5                                                                               5
5                    <R>   CREATE REPORT FILE                                   5
5                                                                               5
5                                                                               5
5                    <X>   EXIT TO MAIN MENU                                    5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter *   Enter a date if you want to report only the determinations       5
5   Option *   added after this date.  Leave date blank to report all data.     5
5     A    *  <Esc> to Abandon                                                  5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 6.4 - Entering a Date for a Partial Report

The system displays the number of determinations that were added on or after the specified date (Figure 6.5). If this is not the number of records you want, select <A> again and enter a different date. Press <Ctrl-Y> when you are in the date field to erase the date you had previously entered if you decide to report all the data.

To create a formatted report of your determinations, select <R> from the Report menu. This option creates an ASCII text file in the same format as the Freeform download format available in the on-line Query module. A pop-up box appears for you to enter a file name for the TXT report file. After you have specified a file name, the system generates the report, displaying a status counter at the bottom of the screen (Figure 6.6) as it writes the report. When the report is complete, the display changes to show the name of your file.

The report generator creates the file in the directory with the other files for the Editor. Follow your normal procedures for printing an ASCII text file.

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC EDITOR                    REPORT MENU                  DATE: 04/01/1998  5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                    <A>   REPORT DATA ENTERED AFTER 07/01/1994                 5
5                                                                               5
5                                                                               5
5                    <R>   CREATE REPORT FILE                                   5
5                                                                               5
5                                                                               5
5                    <X>   EXIT TO MAIN MENU                                    5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter *              3 determinations found for report.                    5
5   Option *                                                                    5
5     A    *                 Press any key to continue. . .                    5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 6.5 - Number of Records for Report Display

```
6444444444444444444444444444444444444444444444444444444444444444444444447
5  RBLC EDITOR                    REPORT MENU                  DATE: 04/01/1998  5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                    <A>   REPORT DATA ENTERED AFTER   /  /                     5
5                                                                               5
5                                                                               5
5                    <R>   CREATE REPORT FILE                                   5
5                                                                               5
5                                                                               5
5                    <X>   EXIT TO MAIN MENU                                    5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter *                                                                    5
5   Option *     Please Wait ... Creating File for Report ...                   5
5     R    * <S>top Report                                  2 determinations    5
9444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 6.6 - Report Status Message

Compressing Your Data

The Editor stores your new control technology determinations in DBF data base files on your PC's hard drive. When you are finished editing the data, you should return the data to EPA for inclusion in the on-line RBLC data base. To simplify the process of transferring your data to the RBLC, the Editor includes a command to compress your data files into a single ZIP file.

From the Main menu, select the <F> option to prepare your files for uploading to EPA. When the system prompts you (Figure 6.7), enter any valid DOS file name for the ZIP file that you want to hold the compressed version of your data base. After you specify a file name, the system goes to DOS, runs PKZIP to create a ZIP file with your data base files, and returns to the Main menu. The compression software `PKZIP.EXE` must be on your hard drive in the `\RBLC` directory or accessible via your path statement for this option to work.

```
RBLC EDITOR                    MAIN MENU                  DATE: 04/01/1998

                  <B>   EDIT RBLC DATA BASE

                  <R>   CREATE REPORT FROM DATA BASE

                  <F>   PREPARE FILES FOR UPLOADING

                  <X>   EXIT TO DOS

                                 Enter File Name: NEWDATA

  Enter *   Enter a name for the ZIP file you want to hold the data base.
 Option *
    F    *  <Esc> to Abandon                                  <F1> for HELP
```

Figure 6.7 - File Name Prompt Box

The system displays a warning message if you use a file name that already exists and prompts you to confirm overwriting the file with that same name (Figure 6.8). If you do not want to write over the existing file, answer "N" and specify a different file name. Answer "Y" if you want the Editor to write over the existing file.

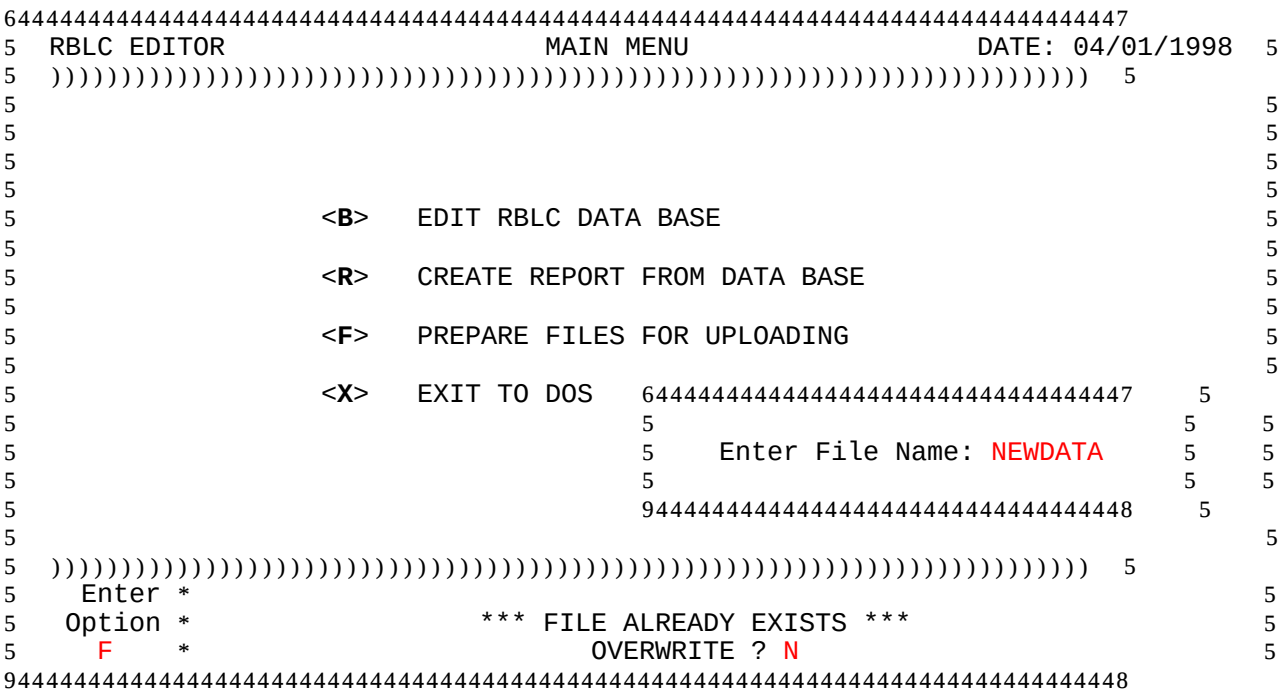

Figure 6.8 - Existing File Warning

After you have specified a name for the compressed file, the system goes to DOS and runs PKZIP to create a ZIP file with your data base files. The system displays a status message when it is finished and returns to the Main menu. If you have any problems using the <F> option, you can exit from the Editor and compress your data files directly at the DOS prompt. Change to the directory that contains the Editor and type:

```
PKZIP filename USR*.DBF
```

where filename is any valid DOS file name. PKZIP will automatically add the .ZIP extension to the file name.

Transferring Your Determinations to the RBLC

Periodically, you should send your determinations to the RBLC System Administrator for review and inclusion in the RBLC transient data base on the BBS. You can either e-mail the data files to the TTN or copy them to a diskette and mail it to EPA. The RBLC System Administrator will review the determinations for accuracy and completeness and then add your data to the on-line data base.

You can e-mail your compressed data by attaching the ZIP file to an e-mail message to Joe Steigerwald, the RBLC System Administrator. Follow the appropriate procedures for your Internet mail program. Be sure to include your phone number in the body of the message, in case there are any questions about your submittal.

Send your e-mail address to the following address:

steigerwald.joe@epamail.epa.gov

TTN BBS users can upload compressed data by enclosing the ZIP file in a BBS e-mail message to the RBLC System Administrator. Follow these steps:

1. Select E-mail from the TTN BBS.

2. Choose <L> to send mail.

3. Specify `Joe Steigerwald` as the user who the message is to. You can type either uppercase or lowercase letters.

4. Enter a brief subject for the message, for example: `RBLC Determination`.

5. Confirm that the To: and Subj: fields are correct. If they are not, answer N and reenter the correct information.

6. Answer N to "Submit Prepared Msg Text(Y/N)?" and Y to "Use Full Screen Editor(Y/N)?" (Figure 6.9).

```
+)))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))),
* To: JOE STEIGERWALD                                                            *
* Subj: RBLC DETERMINATION                                                       *
* Is this correct(Y/N)? Y                                                        *
*                                                                                *
* Submit Prepared Msg Text(Y/N)? N                                               *
* Use Full Screen Editor(Y/N)? Y                                                 *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
.)))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))-
```

Figure 6.9 - BBS E-mail Prompts

7. Type your message, being sure to include your phone number. Press `<Esc>` to exit the Full Screen Editor when you are done entering the message text.

8. From the command prompt line displayed at the bottom of the screen, select <F> to enclose a file with your message. Confirm your choice and enter the file name (Figure 6.10). Follow the procedures for uploading a file with your communication software.

```
+))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))),
* <L>ist, <V>iew, <E>dit, <R>cpt, <F>ile, <Q>uit, <S>end, or <H>elp? F          *
*                                                                              *
* Enclose a file with this message(Y/N)? Y                                     *
* Enter 1-12 char full file name: newdata.zip                                  *
*                                                                              *
* File Name: newdata.zip                                                       *
*  Protocol: XMODEM                                                            *
*                                                                              *
* Ready to receive:                                                            *
* (Ctrl-X to abort)                                                            *
*                                                                              *
*                                                                              *
.))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))-
```
Figure 6.10 - Enclosing a File with a BBS Message

9. When you have successfully uploaded your file, the system displays the file name and the command line prompt at the bottom of the screen. Select <S> to send the message.

If you do not have easy access to e-mail or the TTN BBS, you can copy the ZIP file to a diskette and mail it to:

Joe Steigerwald
RBLC, MD-12
U.S. Environmental Protection Agency
Research Triangle Park, NC, 27711

When your data is received at EPA, the RBLC System Administrator reviews it to make certain that all of the needed data files are there. Then your determination is assigned a permanent RBLC ID and added to the Transient data base. You are notified via mail that your determinations are on-line and what their RBLC IDs are. At this time, you will also be sent a QA/QC report that details any deficiencies in your submittal. Use the on-line Edit option to correct any problems with the new determinations.

USER'S MANUAL FOR THE RBLC DATA BASE

Part 7 -- Federal/State Regulation Data Base

The RACT/BACT/LAER Clearinghouse (RBLC) maintains a data base that contains summaries of federal regulations enacted in response to the Clean Air Act and Amendments. These rules include Maximum Achievable Control Technology (MACT) standards, National Emission Standards for Hazardous Air Pollutants (NESHAP), New Source Performance Standards (NSPS), as well as control techniques guidelines (CTG) which specify requirements for reasonably available control technology (RACT). The regulation data base offers on-line queries via the WWW or the TTN BBS and a BBS module that allows you to add your own rules data. Using the same user interface that you know from the RBLC's control technology determination data base, you 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. Authorized users from state and local agencies can use the edit module on the BBS to add summaries of their own rules to share with RBLC users. As states enter their own information on key rules, both federal and state rules will be available -- all in a single data base.

The RBLC regulation data base is searchable directly from the WWW, without any user registration. You may choose from several query options, depending on what type of information you are looking for. Once you have the necessary hardware, software, and communications setup (a PC, browser software, and direct or dial up Internet access), you can access the regulation data base on the RBLC Web as follows:

- Connect to the Internet and start your web browser.
- Point your browser to the CATC home page: **www.epa.gov/ttn/catc/**.
- Click on the RBLC Data Base icon. Then, click on the “RBLC Data Base Query” link.
- Choose one of the regulation data base query options, and follow the instructions on your screen. Each of the options is described later in this chapter.

For more information about the RBLC home page, see Chapter 3 in this manual. The link to EPA’s “OAR Policy and Guidance” web site gives you access to electronic copies of federal standards enacted under the Clean Air Act and Amendments. Technical support documentation is also available.

Organization of Regulation Data

The organization of the regulation data base is similar to that of the RBLC's control technology determination data base. 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. The type of facility might be a particular type of plant, such as a coke oven or vinyl chloride manufacturing, or a generic operation such as waste transfer. This source is referred to as the affected facility.

Each affected facility consists of one or more different processes that are regulated by the rule. Regulations can specify different emission standards for new and existing sources or for different size sources. Therefore, a rule may contain the same general process but different emission limits for sources with different capacities or construction dates. Each process, in turn, consists of information on one or more pollutants and the emission limits required by the regulation. Each rule for an affected facility must have at least one process and at least one pollutant.

The information that EPA maintains in the regulation data base on each of the three levels (rule/affected facility, process, and pollutant) is listed below. Together these files make up the regulation data base. All information is entered and stored in a single data base. The system does not use separate transient and historical data bases.

See Table 7.1 (beginning p. 6) for the format for each field mentioned below. The specific format listed is the format of the data base for the BBS. Some data elements in the WWW data base may have a slightly different format than that listed due to differences in the underlying data base engine. However, the content of each field is identical in both versions of the data base.

1. Rule / Affected Facility Information

- RULE ID: The unique identification number assigned to each regulation by the system. The number consists of the letter "R" followed by the state abbreviation and a four digit number. For federal regulations, the abbreviation is "US", i.e. RUS-0001 is the first entry made for federal regulations.

- AFFECTED FACILITY NAME: A character field describing the facility, plant, or operation affected by the regulation.

- SIC CODE: This code is the standard industrial classification for facilities used throughout the Office of Air and Radiation (OAR) at EPA. A list of valid SIC codes is available via on-line help or can be downloaded from the RBLC.

- STATE: Two-character abbreviation for state in which regulation applies. "US" is the abbreviation used for federal rules.

- EPA REGION: EPA region number (1-10) corresponding to the state. Zero (0) is used as the region for federal rules.

- REGULATORY BASIS: The statutory basis under which the agency issues the regulation. The choices which may be entered are:

  * CTG/RACT -- Control Technique Guidelines/Reasonably Achievable Control Technology
  * MACT -- Maximum Achievable Control Technology
  * NESHAP -- National Emission Standards for Hazardous Air Pollutants
  * NSPS -- New Source Performance Standards
  * 183(e)/BAC -- Commercial and Consumer Products standard/Best Available Control
  * Other

- STATUS OF THE REGULATION: A character field describing the legal status of the regulation (proposed, in effect, etc.).

- AGENCY INFORMATION: Four fields which provide information on the regulatory agency. The first field is the agency code (see Appendix A); the second is the agency name (automatically assigned based on the agency code). The third and fourth fields provide a contact name and phone number for the person at the regulatory agency who can answer questions regarding the regulation.

- REGULATION NUMBER: A number which the regulatory agency assigns to the regulation. If the rule is issued by EPA, this number would identify the appropriate part and subpart of the Code of Federal Regulations (CFR).

- BACKGROUND INFORMATION DOCUMENT: A number which the regulatory agency assigns to the document that contain technical, cost, and other information supporting the regulation. A second field is available for the title of the document.

- SCHEDULING INFORMATION: Key dates in the development of the regulation are stored in the data base, such as the following:

  * date technical support documentation was completed
  * date public notice was given
  * data rule was proposed
  * date final rule became effective

  The data base also includes character fields for a reference to the legal publication in which rules were announced. For federal rules, this is the Federal Register (FR).

- NOTES: A series of fields that includes explanatory information about the regulation.

- ON-LINE FILE INFORMATION: These two fields are for federal regulations only and list the documents (text of regulation, any supporting documentation, etc.) and their location if the rule is available for downloading from the OAR Policy and Guidance web site.

- ENTRY DATE: Date when the regulation was first entered into the regulation data base.

- LAST UPDATE: Date when changes were last made to the data base for this regulation.

2. Process Information

- PROCESS DESCRIPTION: The description of the process being regulated (see examples in Appendix B).

- PROCESS TYPE CODE: A code assigned to categorize specific process types (see Appendix B).

- SCC CODE: This code is the standard source classification for processes used throughout EPA's Office of Air and Radiation. A list of valid SCC codes can be downloaded from the RBLC.

- SIZE/CAPACITY AND UNITS: Information on the size or capacity of the process unit, often specified using a range or a capacity threshold. These fields are also used to indicate construction or modification dates, such as when different standards apply to process units depending on when they commence operation.

- PROCESS NOTES: This series of fields includes explanatory information specific to the regulation of this process.

3. Pollutant Information

- POLLUTANT NAME: The name of the pollutant being controlled.

- CAS NUMBER: The Chemical Abstract Service number for the pollutant.

- PRIMARY EMISSION LIMIT AND UNITS: The primary emission limit listed in the regulation. For rules that do not have numeric limits, the units may refer to the demonstrated technology descriptions or to the notes.

- ALTERNATIVE EMISSION LIMIT AND UNITS: If provided in the rule, these numbers represent any alternative emission limitations which the affected facility may meet.

- OVERALL PERCENT EFFICIENCY: The design efficiency required by the regulation, often based on a particular type of control equipment and/or pollution prevention method.

- TYPE OF EMISSION CONTROLLED: A one-character field indicating whether the emission is fugitive, point-source, or area-source.

- DEMONSTRATED TECHNOLOGY DESCRIPTION: A description of the specific add-on control equipment or pollution prevention techniques used to meet the emission limits of the regulation. Pollution prevention often includes continuous monitoring requirements, work practice standards, or operator training and qualification.

- COST DATA: Control costs for a model facility. The model plant is generally described in the process notes. Costs contained in the regulation data base include:

    * Capital cost to purchase and install control equipment
    * Annual operation and maintenance (O&M) cost for pollution prevention and add-on control equipment
    * Annualized cost (amortized capital costs plus O&M costs)
    * Cost effectiveness in dollars per ton
    * Year of the dollar used in cost calculations

TABLE 7.1
NAMES AND CHARACTERISTICS OF REGULATION DATA FIELDS

FIELD NAME	TYPE OF FIELD	SIZE OF FIELD
RULE / AFFECTED FACILITY LEVEL INFORMATION		
Rule ID	Character (i.e. RUS-0101)	8
Affected facility name	Character	50
SIC code	Character	10
State	Character	2
EPA Region	Numeric	2
Regulatory basis	Character	12
Regulatory agency code	Character	5
Name of agency contact	Character	30
Contact phone number	Character	14
Rule status	Character	30
Regulation number	Character	30
Background info. doc. no.	Character	30
Background info. doc. title	Character	30
Date of tech. support doc.	Date (XX/XX/XXXX)	8
Date of economic analysis	Date (XX/XX/XXXX)	8
Date of risk analysis	Date (XX/XX/XXXX)	8
Date of public notice	Date (XX/XX/XXXX)	8
Public hearing held	Logical	1
Date of rule proposal	Date (XX/XX/XXXX)	8
Legal ref. for rule proposal	Character	12
Date of promulgation	Date (XX/XX/XXXX)	8
Legal ref. for promulgation	Character	12
Rule effective date	Date (XX/XX/XXXX)	8
Legal ref. for rule effective	Character	12
On-Line File Information	Character	54 (each)
Notes (10 fields)	Character	75 (each)
Date added to data base	Date (XX/XX/XXXX)	8
Date last changed	Date (XX/XX/XXXX)	8
PROCESS LEVEL INFORMATION		
Process description	Character	50
Process type code	Numeric	6
SCC code	Character	20
Size / capacity	Numeric	13

FIELD NAME	TYPE OF FIELD	SIZE OF FIELD
Size / capacity units	Character	20
Process notes (5 fields)	Character	70 (each)
POLLUTANT LEVEL INFORMATION		
Pollutant	Character	20
CAS number	Character	10
Primary emission limit	Numeric	13
Primary emission unit	Character	20
Alternate emission limit	Numeric	13
Alternate emission unit	Character	20
Design percent efficiency	Numeric	7
Emission type	Character	1
Add-on control equipment description	Character	50
Poll. prevention description (2 fields)	Character	50 (each)
Capital cost of equipment	Numeric	10
Operations and maintenance cost	Numeric	10
Annualized cost	Numeric	10
Cost effectiveness	Numeric	10
Year of dollar in cost calculations	Character	4

Web Access

The RBLC regulation data base includes information about federal regulations governing air pollutant emissions. To query the RBLC data bases, click on "RBLC Data Base Query" from the RBLC home page. From the data base query page, you may view on-line help for the query options, perform a query on either the permit or the regulation data base, or link to additional resources. This section of the manual describes how to query the regulation data base.

Note that the on-line HELP system for the RBLC query options provides assistance at any point during a query. Simply click on the question mark icon at the top of the page to access a HELP file that explains the screen you are currently viewing. HELP is context-sensitive. You will not have to scroll through long lists of inappropriate values in order to find the one you need. The entire HELP system, with a table of contents, is also available from the RBLC query page.

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

- **Scan All Regulations**: displays all regulations in the data base in groups of 50, alphabetically by affected facility. This option is most similar to the BBS Browse module.

- **Standard Query**: build a search criteria by choosing from facility, process, and pollutant properties. Where appropriate, pick lists of allowable values are provided. This option is most similar to the standard query option in the BBS Query module.

- **Advanced Query**: choose from pick lists of data elements and enter desired values to build a search criteria. Criteria can be combined for more selective queries. In general, you should know what each data element contains to use this option effectively. This option is most similar to the advanced query option in the BBS Query module.

Choose the scan option to easily view the entire regulation data base. Entries are displayed in a table just like query results, and you can choose any of the report formats for downloading. Choose either of the query options to view only selected regulations. All RBLC query options present an overview of your query results in a table that allows you to examine details about matching facilities, their processes, and pollutants. Each option also supports saving your results in any of the RBLC standard output formats. Feel free to back up, respecify your search criteria, and run another query after you have examined your results. You can even click on the link at the bottom of every results page to return to the RBLC Query page, and choose another query option. Of course, if your query is not successful, you should back up and respecify your search criteria. Make sure that you have not misspelled a word or entered an invalid value for the particular element you are querying on.

The format and layout of the input pages for each of the RBLC query options are discussed below. For more information about how to use the available input objects to specify search criteria, refer to the section How To Run a Query in Chapter 3.

Web Standard Query

The standard query option offers flexibility in examining the regulation data base. It allows queries on several data fields (process code or pollutant for example), and it supports combining data fields for more selective queries. You make your selections by choosing from pick lists, clicking on radio buttons, and entering values in text boxes. When the data value must be one of a particular set of choices, these choices are presented in a pick list.

The initial part of the Standard Query option displays links to groups of related RBLC data fields in the right of the page, just below the title. Browse through the page to the properties you want to query on. You specify search criteria for the standard query by filling out the appropriate sections of the form. You can combine groups, selecting one or more data elements from the available groups. Simply ignore groups that are not of interest to you.

Figure 7.1 shows part of the standard query input form for the regulation identification section. Names of the data elements appear on the left of the screen, with the area for you to input the value you wish to match appearing on the right. A brief explanation of each group of data elements appears below the input section. The figure illustrates the different types of inputs accepted by the standard query.

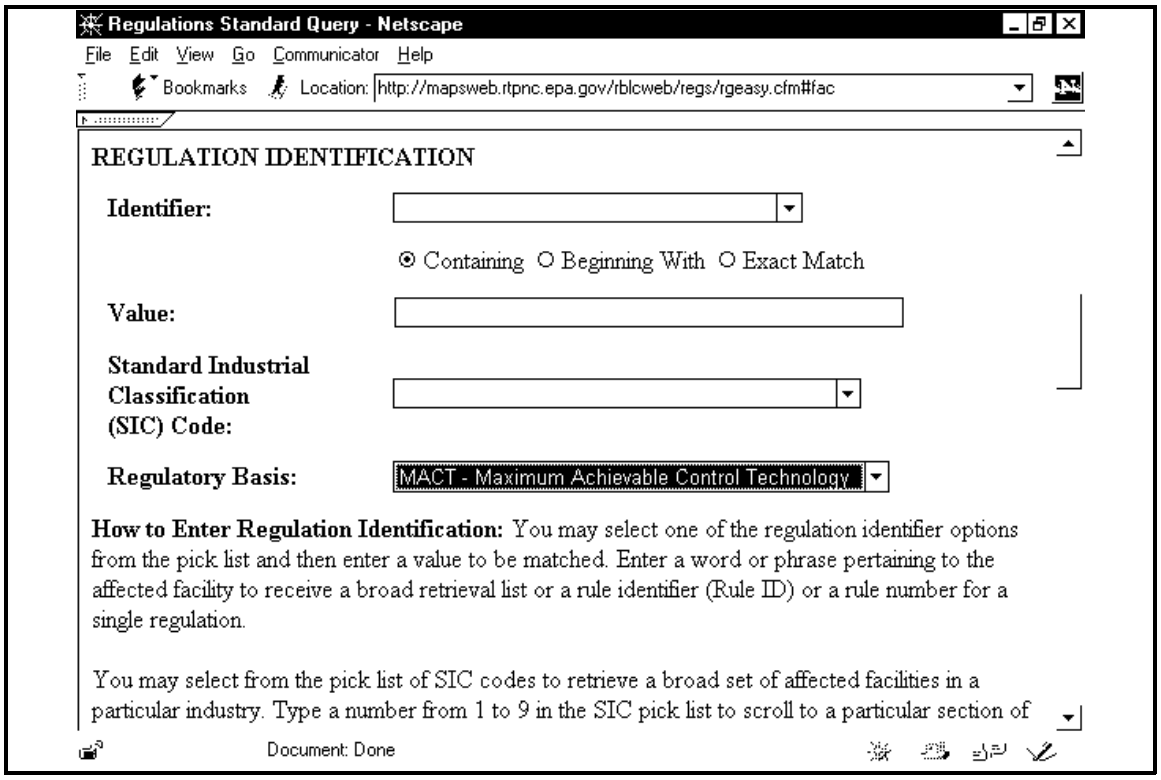

Figure 7.1 -- Regulation Data Base Standard Query

Your search criteria is used to query the data base for records whose data element matches the value you specified. Some data elements can be matched in one of several ways. For these elements, you can choose a comparison operator from the set of operators presented on the query form. For numbers, the allowable operators are equals, greater than, or less than. Operators for alphanumeric fields allow you to match any part of the data, match the beginning characters only, or specify an exact match of every character.

More than one search criteria section can be filled out for the standard query. Try to select enough criteria to match a manageable number of records, without being so restrictive that the query finds no matches or being so complex that the query takes a long time to run. Usually, two to three criteria work well. Be sure not to specify mutually exclusive criteria. The following groups of data elements can be queried by the RBLC standard query:

Dates

- Choose a date element from the date range pick list:

  - Date added to RBLC
  - Date last modified
  - Date rule is effective

  Enter a from date and/or a to date. Your query will find dates greater than or equal to the from date and less than or equal to the to date.

The RBLC Web is flexible about the format of dates. You may enter dates in a numeric mm/dd/yyyy format or spell out the month, such as 'Jan 1, 1998'. If the system cannot recognize your date, you will be prompted to go back and enter another date value.

Be aware that proposed rules and guidance documents do not have effective dates, so a query on the date rule is effective data element will not find these types of data base entries.

Regulation Identifiers

- Select an identifier from the pick list (see below) and enter the appropriate value to match.

  - Affected facility
  - Rule Identifier (Rule ID)
  - Rule number

- Choose from the pick list of SIC codes to retrieve a broad set of facilities in a particular industry. A list of SIC codes can be downloaded from the RBLC documents section, available from the RBLC home page.

- Select a regulatory basis from the pick list to retrieve all rules enacted under a particular federal statute.

You can enter a word or phrase to locate rules for a specific affected facility. Enter an Rule ID or rule number to locate one specific regulation. The format for rule IDs is **RAA-NNNN**, similar to the format for RBLC IDs with "R" added as a prefix. The format for rule number varies. In fact, CTG entries do not even have a rule number. Most federal rules take the form **40 CFR Part nn Subpart aaa**. If you the appropriate part and subpart of the CFR in which a rule was published, use the rule number.

When querying on a regulation identifier, you can choose how closely you want to match your desired value. Choose one of the following comparison operators:

- **Containing** performs a word search and matches all affected facilities that contain the specified value anywhere in the facility name data element. This is the recommended comparison operator for all regulation identifiers except Rule ID.
- **Beginning with** finds only those affected facilities whose facility name data element begins with the value you specified.
- **Exact match** is the most restrictive operator and requires a character by character match between the value you specified and the facility data element. This is the recommended comparison operator for matching Rule ID.

Process Information

- Enter a partial or complete process name. This search criterion automatically uses the containing operator and works especially well when combined with one of the other process data elements. Appendix D lists common process names used in the RBLC.
- Choose from the list of process type codes. Enter a number between 1 and 9 to scroll to that part of the process code list. Appendix B lists allowable process codes.
- Enter a SCC code. Many older permits were added to the data base without a SCC code, so your query may not find all matching records. A list of SCC codes can be downloaded from the RBLC Documents section, available from the RBLCWeb.

Pollutant Information

- Specify a pollutant name. Choose from one of the criteria pollutants in the pick list, or choose 'Specify other' and type the pollutant name you desire. The RBLC standard is to use the chemical abbreviation for a pollutant name, for example 'CO' for carbon monoxide.
- Enter a CAS number. This is the recommended method for finding a specific pollutant because it accounts for any variations in pollutant names.
- Choose from the list of available emission types. This selection works best when used in combination with other criteria because it matches a large number of data base entries.

Emissions Abatement Information

- Enter a word or phrase for the particular pollution prevention method or add-on equipment that was used.
- Specify a control efficiency threshold as a percentage. Very often, a measure of efficiency is not specified with the regulation, so a query on this data element may not find many matching records.

When you have completely specified your search criteria, scroll to the bottom of the page. You can choose to sort the results table either by affected facility name or by Rule ID. Click the radio button next to your preference. After you have completed your search criteria and selected a sort order, click the Run button to begin your query. Click the Reset button to start over with a blank standard query form.

The results of your query are displayed in a table. Examining the results of your query or downloading the results to a local PC are discussed in the sections below.

Web Advanced Query

The advanced query option lets you create search criteria by choosing from pick lists of data elements and entering desired values. Two search criteria can be combined using 'AND' or 'OR' logical connectors for more selective queries. Although similar to the standard query, the advance query option does not provide sets of allowable values for data elements. In general, you should know what each data element contains to use this option effectively. The on-line help contains information that can help you run the advanced query.

Specify the first search criteria by choosing a data element and a comparison operator from the pick lists. Then type the desired value for the data element in the text box, using lowercase or uppercase letters and/or numbers. The searchable data elements are listed below. Refer to the previous section on the standard query for detailed information about the allowable values for the data elements.

- Affected facility
- CAS number
- Control efficiency
- Control method description
- Date added to RBLC
- Date last modified
- Date rule is effective
- Emissions type
- Identifier (Rule ID)
- Pollutant name
- Process name
- Process type code
- Regulatory basis
- Region
- SCC code
- SIC code

You must make an entry for all three items. None can be blank. If this correctly specifies the search criteria you want to use, browse to the bottom of the page and click the run button to begin.

Optionally, you may wish to combine two criteria in a single query. To do this, choose one the following logical connectors:

- **And** finds records that match **each** of your search criteria.
- **Or** finds records that match **at least one** of your search criteria.

If you select a connector, you must specify a second criteria. Make your choices from the pick lists, and enter a desired value. Be careful not to specify mutually exclusive criteria.

Before you click the run button, you can choose to sort the results table either by affected facility or by Rule ID. Click the radio button next to your preference. Click the Reset button to start over with a blank standard query form. After you have completed your search criteria and selected a sort order, click the Run button to begin your query.

The results of your query are displayed in a table. Examining the results of your query or downloading the results to a local PC are discussed below.

Viewing and Downloading Query Results via the RBLC Web

The results of a query are summarized in a table organized by affected facility (or Rule ID if you selected that option). Each row in the table represents a regulation for one affected facility. The table displays Rule ID, affected facility, regulatory basis, and an on-line indicator. This Yes/No indicator tells you whether the text of the regulation and/or any supporting technical documentation is available on EPA's OAR Policy and Guidance web site. Figure 7.2 shows an example of a results table for a standard query. If you ran a standard or advance query, the search criteria used for the query appear towards the top of the page as a reminder.

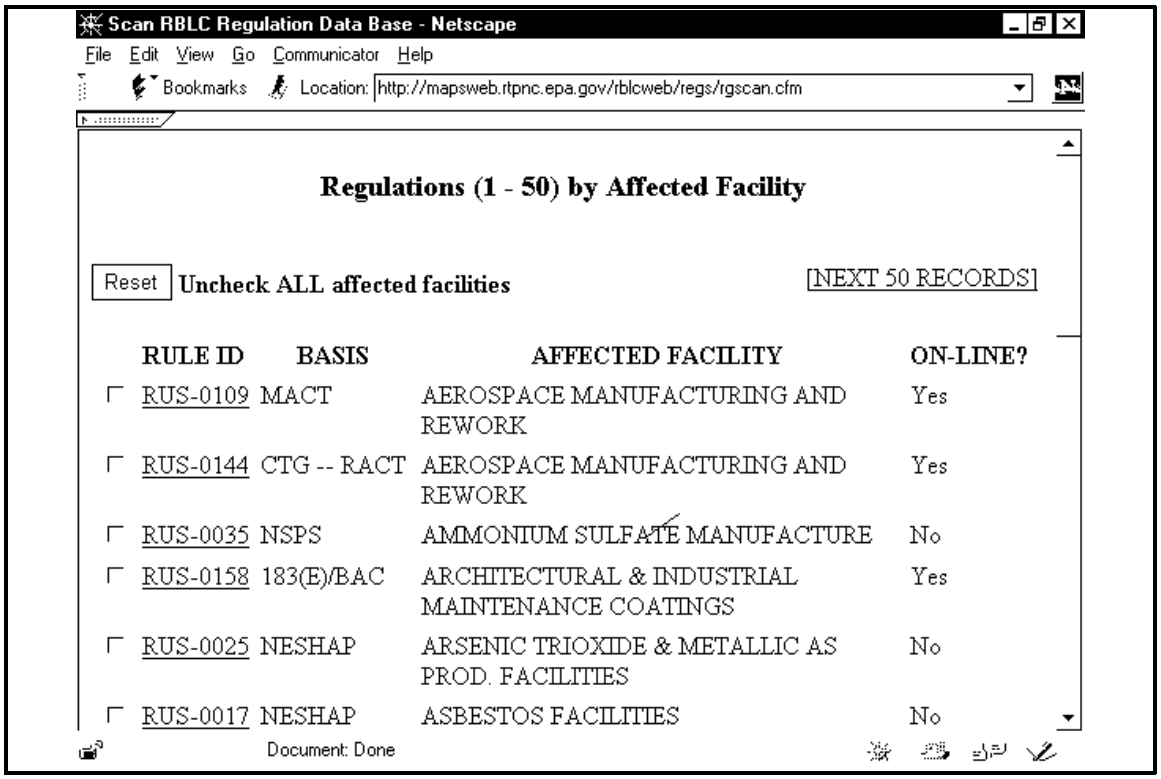

Figure 7.2 -- Results Table for Regulation Data Base

The results table displays a maximum of 50 records at a time. Any reports that you create will contain only the affected facilities currently displayed on the page. If your results consist of more than 50 records, a link to the next 50 records appears just above the results table. To work with the next group of records, click on this link. A new page with the next 50 matching records is displayed so that you can view or report on this set of records. Continue moving through the complete results set in groups of 50 records until you have viewed and reported on all of the affected facilities that matched your search criteria. Use the back button of your browser to view previous parts of the results set.

Information about each of the regulations in your query results is organized by affected facility, process, and pollutant. Click on a Rule ID in the results table to see a list of processes regulated by that standard. View successively deeper levels of information by clicking on the links that appear in each subsequent detail page. After you have examined details about a regulation, use the Back button on your browser to return to the query results table and pick another facility to view.

The initial page for any regulation presents details about processes regulated by the rule. From this page, you can link to details about the regulation or about each process and its pollutants. If an affected facility has multiple processes, they are all displayed on a process list page. Each process in the list is a link to a process detail page that displays additional information about that process. The process details page appears immediately if the affected facility has only one process.

Link to the regulation detail page (Figure 7.3) to view the type of facility governed by the regulation, who to contact at the regulatory agency, the basis for the regulation, the status of the regulation, references to technical documentation explaining how the regulation was developed, including on-line information (if any), pertinent dates in the regulatory process, notes, and other information related to the affected facility. Use your browser's Back button to return to the process list.

The process detail page (Figure 7.4) presents specifics about the process, such as capacity thresholds and whether the standards apply to new or existing units, process notes, and other information related to the process. Use your browser to go back to the process list to select other processes for viewing. Click the View Pollutant Info link to move down to the next level of detail. Click the View Regulation Details link to review detailed information about the regulation.

The pollutants for a process are displayed on a pollutant list page. Each pollutant name in the list is a link to a pollutant detail page that displays additional information about that pollutant. The pollutant detail page (Figure 7.5) presents specifics about emissions of the particular pollutant regulated by the standard. Details include primary and alternative limits, pollution prevention or add-on equipment used to achieve the limit, capital and annualized costs for necessary controls, and other pollutant-related information. Use your browser to go back to the pollutant list to select and view other pollutants.

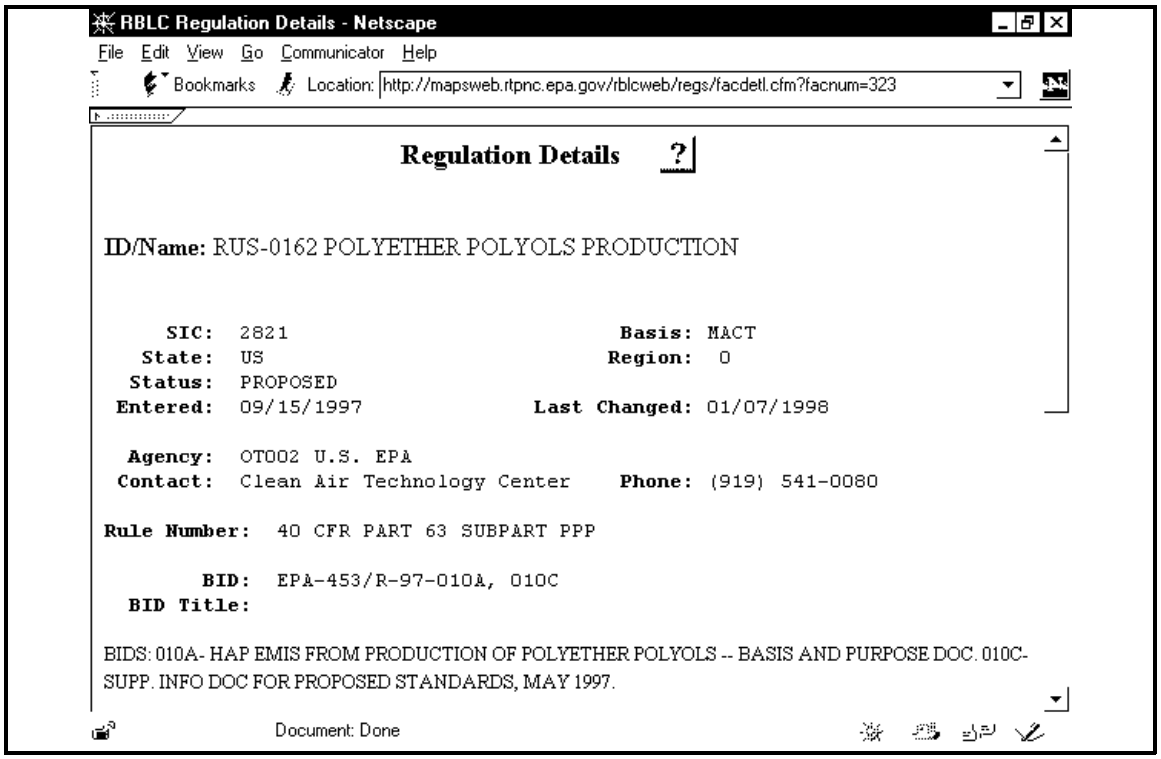

Figure 7.3 -- Regulation Detail Page

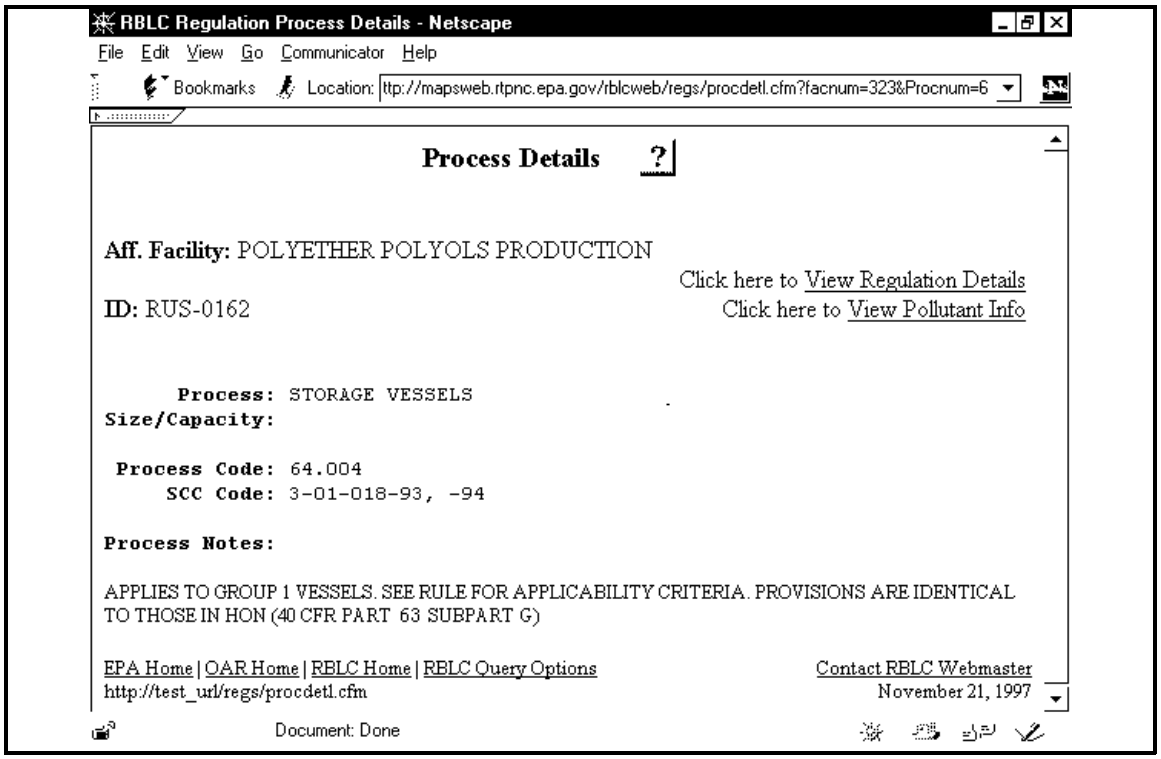

Figure 7.4 -- Process Detail Page for Regulation Data Base

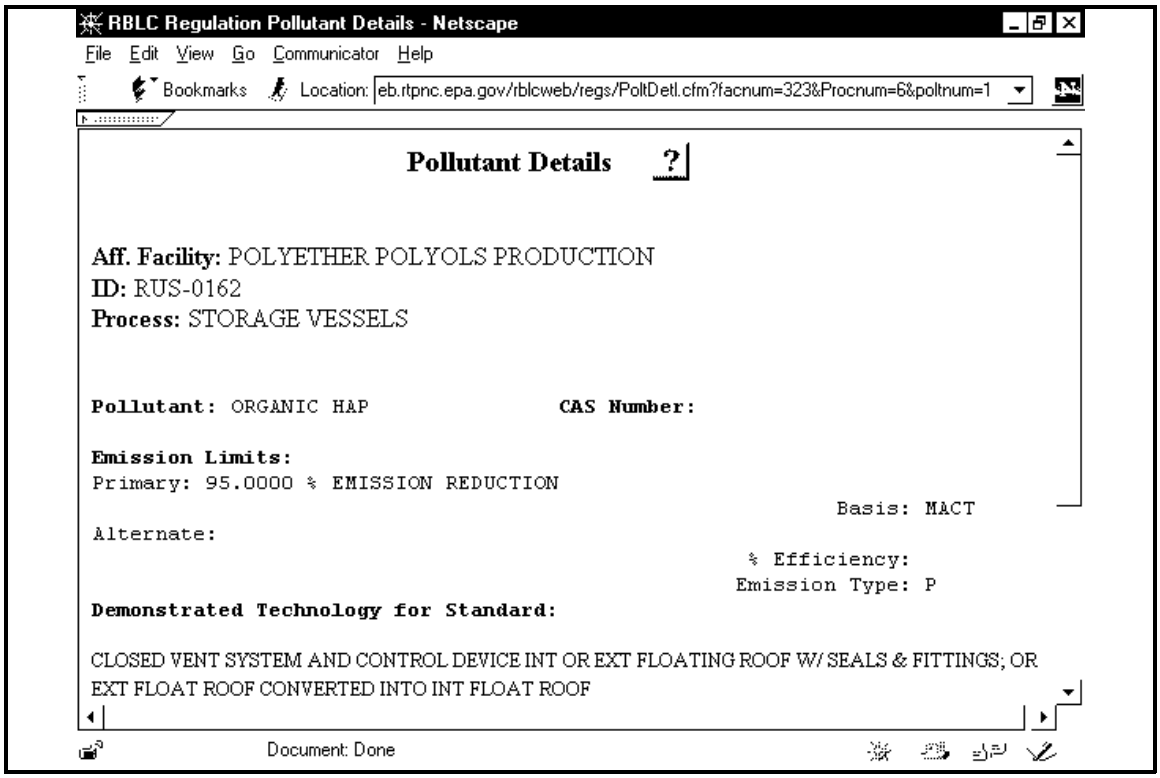

Figure 7.5 -- Pollutant Detail Page for Regulation Data Base

In addition to viewing regulations on-line, the RBLC Web allows you to download selected information to your local PC in several pre-defined formats. Both summary and detail formats are available. The list of available formats is contained in a pick list at the bottom of the results page. Choose a report format from the list, and click the create button to generate your report. Formatting a report may take some time, especially for a large number of affected facilities. All reports are created as ASCII text.

Summary reports always include all of the affected facilities displayed in the results table. These reports are fairly short and do not take a long time to create. Detail reports can be very lengthy depending on the size of your result set. Because these reports can take a noticeable amount of time to create, you have the option of excluding affected facilities from the detail reports. The first column next to each Rule ID in the results table is a check box that indicates whether the regulation will be included in detail reports created from this query. Initially all affected facilities are checked and will be included in the detail reports. Click the check box next to an affected facility to switch between checked and not checked. Click the reset button to return check marks to all affected facilities.

The following report formats are available:

- **Appendix G - Contact Summary by Process Code**: sorted by numeric process code; reports Rule ID, affected facility, regulation effective date, regulatory agency,

and name and telephone number for contact person who is knowledgeable about the regulation.

- **Appendix H - Detailed Listing by Rule ID**: reports most of the information in the regulation data base. Because it includes details about all processes and pollutants for selected affected facilities, this is a very lengthy report.

- **Freeform - Detailed Listing All Fields**: optional method for reporting literally all information in the regulation data base for selected affected facilities. Again, this is a very long report.

- **Export - ASCII Delimited Text**: saves selected data fields in a quoted, comma-delimited format that is suitable for importing into desktop data bases or spreadsheets. Information reported includes Rule ID, affected facility, regulatory basis, proposed and effective dates, process code and description, process capacity, pollutant and emission limit, and a description of emission abatement method.

Because the results table displays a maximum of 50 records at a time, any reports that you create will contain only the affected facilities shown on the current page. **You may download a maximum of 50 regulations at one time.** A link to the next 50 records appears above the results table if your results consist of more than 50 records. Create one or more reports for affected facilities on the current page before proceeding to work with the next group of records. When you click the link to the next 50 records, a new page with the next 50 matching records is displayed. You can now report (or view) this set of records. Use the back button of your browser to return to previous parts of the results set. Continue moving through the complete results set in groups of 50 records until you have reported on the affected facilities of interest found by your search criteria.

Please be patient after you initiate your report. When the RBLC Web has finished creating the report, your browser will display a Save As dialog box or the report itself. The exact action depends upon how you have configured your browser. You will return to the results table after you have saved the report. (If the report appeared in your browser, choose the Save As command from the File menu to save the report file on your PC. Then, use the back button to return to the results table). art 1 -- Introduction

4

7-18LC On-Line1

-52 -- Information in the RBLC Data Base

7-19RBLC Data2

-1 and Historical Data

7-24 the RBLC Web Data Base3

-1 Page

7-23

ete flexibility in examining the contents of the permit data base.

BBS Access

Chapter 1 explains how to connect to the BBS and get an ID and password. Once you are logged on, choose the menu option for “Technical Areas”. Then select the RBLC BBS. You access

the regulation data base directly from the RBLC BBS Main menu. The system is available any time the TTN is up and running. After an introductory screen, the first menu gives you a choice among the query, browse, and edit modules (see Figure 7.6).

The edit module is password-protected. If you would like to input regulations for your agency, contact the RBLC System Administrator at (919) 541-2736.

```
6444444444444444444444444444444444444444444444444444444444444444444444444447
5                     FED/STATE/LOCAL REGULATIONS SYSTEM                        5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5                                  DATA BASE MENU                DATE: 04/01/1998  5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5                                                                              5
5                                                                              5
5                           <B>   BROWSE DATA BASE                             5
5                                                                              5
5                           <Q>   QUERY DATA BASE                              5
5                                                                              5
5                           <E>   EDIT DATA BASE                               5
5                                                                              5
5                           <X>   EXIT TO RBLC BBS                             5
5                                                                              5
5                                                                              5
5                                                                              5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5              Press <F1> for HELP anywhere throughout the system.             5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter *                                                                   5
5   Option *        Press the appropriate letter to select option.             5
5          *                                                                   5
9444444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 7.6 - Federal/State Regulation Main Menu

BBS Query Module

When you select the query module from the federal/state regulation Main menu, the system brings you directly to the query menu. All rules are stored in one data base, so there is no need to select a data base to query. The query menu offers both standard (menu-driven) and advanced search options. Refer to section 3 of this manual for more information on building a search criteria and performing a search.

The searchable fields for the regulation data base are similar to the ones used in the determination data base. Whether you are building your criteria from the standard search menu or on the advanced search screen, context-sensitive on-line help is available. When you press F1 to access help, the HELP system "knows" what part of the criteria list you are creating and provides appropriate help information. Upon leaving HELP, the cursor returns to the first field on your screen. Use HELP to see information about valid options from all of the menus and prompts. Following are the allowable search criteria in the regulation data base:

Data Element	Field Description
RULID	Rule ID
FACILITY	Affected facility
REGION	EPA region
STATE	State
RULEFFDATE	Rule effective date
RULENUMBER	Rule number
AGENCY	Regulating agency code
SIC	SIC code
LASTUPDATE	Date of last update
PROCESS	Process name
PROCTYPE	Process type code
SCC	SCC code
POLLUTANT	Pollutant name
BASIS	Regulatory basis limit
EQUIPMENT	Add-on control equipment
PROCMODIF	Pollution prevention method
CAS	CAS number
PCTEFFIC	Overall percent efficiency
EMISSTYPE	Emission type
ENTRYDATE	Date inserted into data base

After you have successfully completed a search, you choose from the view, download, or reactivate options. When you choose the view option after a successful search, the system presents a list of affected facilities in the current subset (Figure 7.7). The system displays the rule ID, regulatory basis, and affected facility name for all rules that matched your search criteria. Also for each rule, the system displays two indicators ("C" and "R") as appropriate. The explanation for these indicators appears at the bottom of the regulation list. You must choose a regulation; a listing of processes for the affected facility follows (Figure 7.8).

Each process which met the selection criteria will be marked with an '*' in the process listing. The process list allows you to view the regulation level information, view information about the OAR Policy and Guidance web site file for this rule, or choose a process. If you choose to view the regulation level data (see Figure 7.9), you may then choose to remove this particular rule from your download set. If you exercise this option, the system will remove the marked regulation before downloading the set to the your computer. A rule may only be removed from downloading from the View Regulation screen. When you return to the regulation list, the system displays an "R" next to any rules removed from downloading (Figure 7.7).

The RBLC Federal/State Regulation data base contains summaries of air pollution regulations. For recent federal rules enacted as a result of the Clean Air Act and Amendments (CAAA), EPA maintains the complete text of the regulations in downloadable files on the OAR

Policy and Guidance (P&G) web site. To help you quickly locate these files, the regulation data base stores the the section of the CAAA BBS where the rule textis located. Press <C> from the process list to view this information (Figure 7.10). Any additional files available on the P&G web site, such as technical support documentation or preambles, is also noted.

```
REGS  QUERY              VIEW REGULATION LIST             DATE: 04/01/1998
                       * Currently Active Subset  : 1 *
REC
NO      RULE ID  BASIS  AFFECTED FACILITY
1   C   RUS-0089 MACT   DRY CLEANING FACILITIES, PERCHLOROETHYLENE (PCE)
2   C R RUS-0090 MACT   INDUSTRIAL PROCESS COOLING TOWERS (IPCT)
3       RUS-0091 MACT   HON FROM SOCMI VENTS, STORAGE, TRANSFER & WASTEWTR
4       RUS-0092 MACT   HON EQUIPMENT LEAKS FOR SOCMI & SOME OTHER PROC'S
5     R RUS-0093 MACT   COKE OVEN BATTERIES
6   C   RUS-0094 MACT   GASOLINE DISTRIBUTION (STAGE I) FACILITIES
7   C R RUS-0095 MACT   COMMERCIAL STERILIZATION & FUMIGATION
8   C   RUS-0097 MACT   CHROMIUM ELECTROPLATING AND ANODIZING
9   C   RUS-0101 MACT   HALOGENATED SOLVENT CLEANING
--more--
          A  C means the text of a regulation is available on the CAAA BBS.
          An R means a regulation has been marked for removal from download.
  Enter * Enter Record Number to Select a Rule.                  <F1> HELP
 Option *                                              <Ctrl><R> to Page Up
  10    * E<X>it to QUERY Menu                        <Ctrl><C> to Page Down
```

Figure 7.7 - View Regulation List

```
REGS  QUERY                VIEW PROCESS LIST
                       * Currently Active Subset  : 1 *
Rule:    RUS-0101      HALOGENATED SOLVENT CLEANING

REC NO   Process Name                                Size / Capacity
1      * BATCH COLD CLEANING MACHINE
2      * BATCH VAPOR CLEANING MACHINE                <= 1.21 M2
3      * BATCH VAPOR CLEANING MACHINE                > 1.21 M2
4      * IN-LINE CLEANING MACHINE, EXISTING
5      * IN-LINE CLEANING MACHINE, NEW

           An * means a process met the selection criteria.
           To remove a regulation, choose "R" from the regulation data screen
  Enter * Enter Record Number to Select a Process.                <F1> HELP
 Option * <V>iew Regulation Data  <C>AAA BBS Filename <Ctrl><R> to Page Up
  3     * E<X>it to Regulation List                  <Ctrl><C> to Page Down
```

Figure 7.8 - View Process List

```
REGS  QUERY   Subset: 1      VIEW REGULATION              DATE: 04/01/1998
RUS-0101      SIC: 359, 254*      BASIS: MACT
AFFECTED FACILITY: HALOGENATED SOLVENT CLEANING
STATE:  US    REGION:  0
STATUS: IN EFFECT                                        ENTERED: 12/29/1994
                                                         UPDATED: 02/03/1995
 AGENCY CODE: OT002  AGENCY NAME: U.S. EPA
CONTACT: CONTROL TECHNOLOGY CENTER             PHONE: (919) 541-0800
 RULE NUMBER: 40 CFR PART 63 SUBPART T
BID: EPA-453/R-93-054, /R-94-071      TITLE: SEE NOTES

                         Date                            Date     Legal Ref.
 TECH. SUPPORT DOC.: 11/01/1993     RULE PROPOSED: 11/29/1993  58 FR 62566
 ECONOMIC  ANALYSIS: 11/01/1993      PROMULGATION: 12/02/1994  59 FR 61801
      RISK ANALYSIS:   /  /        RULE EFFECTIVE: 12/02/1994  59 FR 61801
     PUBLIC  NOTICE: 11/29/1993
     PUBLIC HEARING: N                 SEE NOTES FOR MORE INFORMATION
  Enter * <R>emove Regulation from download                      <F1> HELP
 Option * Exit to Regulation <L>ist                    <Ctrl><R> to Page Up
        * E<X>it to Process List   <V>iew Notes     <Ctrl><C> to Page Down
```

Figure 7.9 - Regulation Level Data

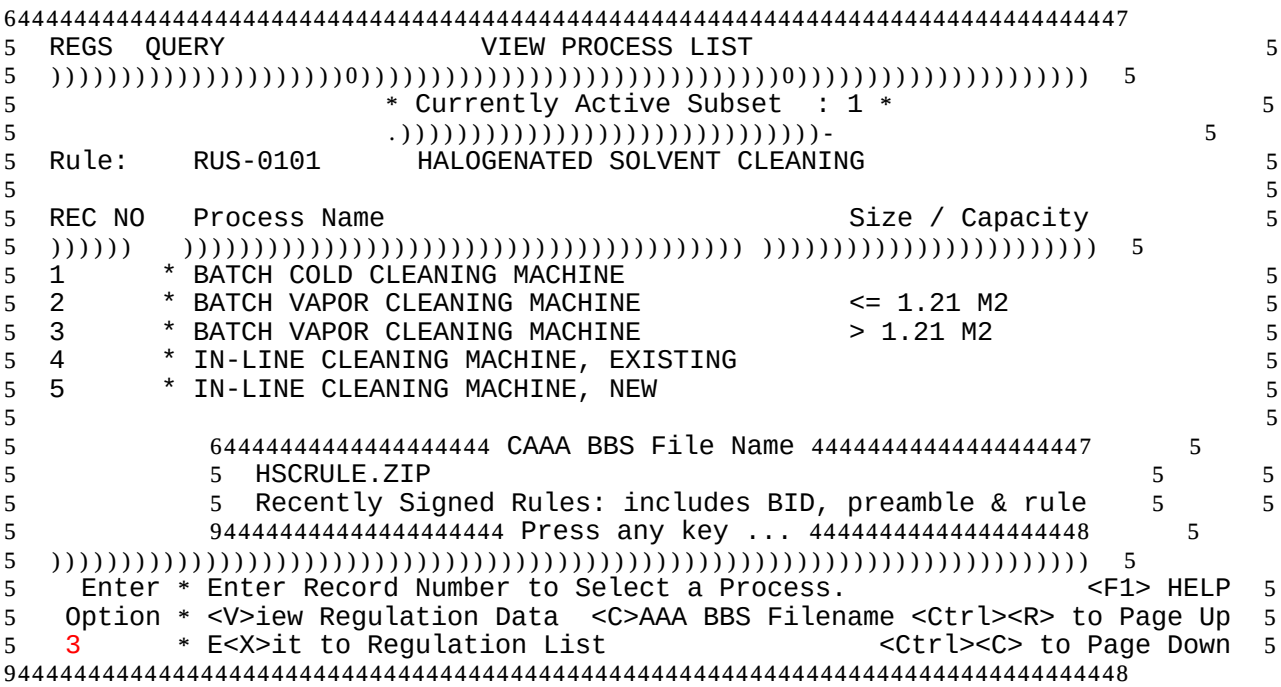

Figure 7.10 - CAAA BBS File Information

If you choose a process, the regulation data base system displays a listing of pollutants emitted by the process. This pollutant listing screen gives you the option to view the process level information (see Figure 7.11) or view pollutant level information. Each pollutant which meets the selection criteria is marked with an '*'. If you choose a pollutant, the system presents a screen with all pollutant level information (see Figure 7.12).

```
6444444444444444444444444444444444444444444444444444444444444444444444444447
5  REGS  QUERY   Subset: 1      VIEW PROCESS                  DATE: 04/01/1998  5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5  RUS-0101   HALOGENATED SOLVENT CLEANING                                      5
5                                                                               5
5  PROCESS: BATCH VAPOR CLEANING MACHINE                                        5
5  PROCESS TYPE: 49.006       SCC CODE: 4-01-002                                5
5                                                                               5
5  CAPACITY:             0.00    UNITS: <= 1.21 M2                            5
5                                                                               5
5  PROCESS INFORMATION:                                                         5
5     CAPACITY REFERS TO INTERFACE AREA. SEE SECTION 63.463 TABLE 1 FOR LIST    5
5     OF CONTROL COMBINATIONS.  THIRD ALTERNATIVE LIMIT: 150 KG/M2/MO,          5
5     3 MONTH ROLLING AVERAGE.                                                  5
5     COSTS FOR EXISTING SMALL MODEL DEGREASER USING METHYLENE CHLORIDE.        5
5                                                                               5
5                                                                               5
5                                                                               5
5                                                                               5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter * Exit to <R>egulation List                          <F1> HELP       5
5   Option * Exit to <P>rocess List              <Ctrl><R> to Page Up            5
5          * E<X>it to Pollutant List           <Ctrl><C> to Page Down          5
9444444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 7.11 - View Process Data

```
6444444444444444444444444444444444444444444444444444444444444444444444444447
5  REGS  QUERY   Subset: 1     VIEW POLLUTANT/CONTROL INFO   DATE: 04/01/1998  5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5  RUS-0101   HALOGENATED SOLVENT CLEANING                                      5
5  PROCESS: BATCH VAPOR CLEANING MACHINE            <= 1.21 M2      SELECTED   5
5  POLLUTANT: HAP                                   CAS NUMBER: SEE NOTES      5
5  EMISSION LIMITS:                                                             5
5     PRIMARY:        0.0000 SEE CONTROLS/P2            BASIS: MACT           5
5   ALTERNATE:        0.2200 KG/HR/M2 IDLING          % EFFICIENCY:   0.0000   5
5                                                       EMISSION TYPE:  F       5
5  DEMONSTRATED TECHNOLOGY FOR STANDARD:                                        5
5     CONTROL EQUIPMENT: WORKING-MODE COVER; FREEBOARD REFRIG; OTHER             5
5  POLLUTION PREVENTION: AUTOMATED PARTS HANDLING SYSTEM AND WORK PRACTICE      5
5                        STANDARDS                                              5
5                                                                               5
5  COST DATA IN THOUSANDS OF DOLLARS:                                           5
5     CAP COST OF CONTROL EQUIP: $       0.00    ANNUALIZED COST: $       1.93 5
5     O/M COST OF CONTROL EQUIP: $       0.00 COST EFFECTVNS: $/TON       0.00 5
5     DOLLAR YEAR USED IN COST ESTIMATES:     1992                              5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter * Exit to <R>egulation List                          <F1> HELP       5
5   Option * Exit to <P>rocess List              <Ctrl><R> to Page Up            5
5          * E<X>it to Pollutant List           <Ctrl><C> to Page Down          5
9444444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 7.12 - View Pollutant Data

To exit the View option, return to the Regulation List and choose <X> to exit to the Query menu.

If you want to download selected data from the BBS to your local PC, select the download option for either the BBS or Internet, as appropriate, from the Query menu.

The system allows you to choose from four download options:

- Appendix G: An ASCII text file with summary information about contact person (name, agency, phone) for selected rules, sorted by process code.

- Appendix H: An ASCII text file with detailed information about selected rules.

- Free-format report: An ASCII text file with all information about selected rules.

- Lotus/dBASE format: dBASE III+ format file of selected information about each rule found in the query.

Refer to part 4 of this manual for more details about how to download information. Examples of the download formats for the federal/state regulation data base are in Appendix H.

BBS Browse Module

The Browse module allows you to view the complete list of federal and state regulations without performing a search. You can also mark rules and download them to your local PC. Browse is particularly useful if you are not familiar with the control technology data base. When you select Browse from the regulation data base Main menu, you can go directly to viewing a list of all the affected facilities and their associated regulations. No prior knowledge of the data base organization is required. Also, because you do not have to perform a search, Browse may be faster if you know the affected facility that you are interested in.

Select the view option from the Browse menu (see Figure 7.13) to view the rules in the data base. The system displays a list of affected facilities in order by issuing state ("US" for federal rules) and then by affected facility name. The Browse regulation list, which works just like the list in Query, gives you access to regulation, process, or pollutant level information. These screens are identical to the screens for the view option of the Query module. In Browse, the regulation list has two additional commands that let you move around the complete rule list and mark information for download.

Browse sorts the regulation list by affected facility name to help you find rules of interest as you page through the data base. The "Jump" option allows you to enter a letter and move directly to the affected facility whose name begins with that letter. If you are looking for the rule for "SULFURIC ACID PLANTS", the jump option saves you the trouble of paging through the rules from A to R. If the data base does not contain any rules that begin with a particular letter, jump moves down the rule list to the affected facility that begins with the next higher letter in the alphabet

(for example, "RUBBER TIRE MFG" when you try to jump to "Q"). Jump may not help you locate a rule exactly in all cases, but it is a good way to move quickly around the entire REGS data base.

```
6444444444444444444444444444444444444444444444444444444444444444444444444447
5  REGS                          BROWSE MENU                    DATE: 04/01/1998  5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5                                                                                 5
5                                                                                 5
5                                                                                 5
5                                                                                 5
5                     <V>   VIEW REGULATIONS                                      5
5                                                                                 5
5                     <D>   DOWNLOAD REGULATIONS FOR BBS                          5
5                                                                                 5
5                     <I>   DOWNLOAD REGULATIONS FOR INTERNET                     5
5                                                                                 5
5                     <X>   EXIT TO RBLC BBS                                      5
5                                                                                 5
5                                                                                 5
5                                                                                 5
5                                                                                 5
5                                                                                 5
5  ))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))  5
5    Enter *       Press the appropriate letter to select the option              5
5   Option *               you want or press <F1> for HELP.                       5
5          *                                                                      5
9444444444444444444444444444444444444444444444444444444444444444444444444448
```

Figure 7.13 - Browse Menu

In addition to viewing rules on-line, Browse allows you to mark selected rules and download them to your local PC. However, you cannot select either of the download options until you have used the view option to mark one or more regulations for downloading. Because you have access to the entire data base, Browse begins with all rules unselected. You can select rules for downloading from either the rule list or the regulation data screen after you choose the view option. You can choose a regulation from the list and go to the regulation data screen to mark/unmark a rule for downloading. Alternatively, you can use the "Mark" option at the rule list to mark several rules with fewer keystrokes. When you select mark, a pop-up box prompts you to enter the appropriate mark option (Figure 7.14). You can mark or unmark all of the rules currently displayed on the screen, or you can mark/unmark a single rule. For single rules, this option acts as a toggle, switching the mark on or off.

If you're only interested in one rule, it doesn't matter how you mark your selection. When you want to download a group of rules, the mark option is noticeably faster. You can mark the rules of interest to you while paging through the rule list. After you have marked one or more rules for downloading, download works like it does in the Query module. Choose either the Internet or BBS download option, depending on how you accessed the RBLC. See Appendix H for examples of the available download formats.

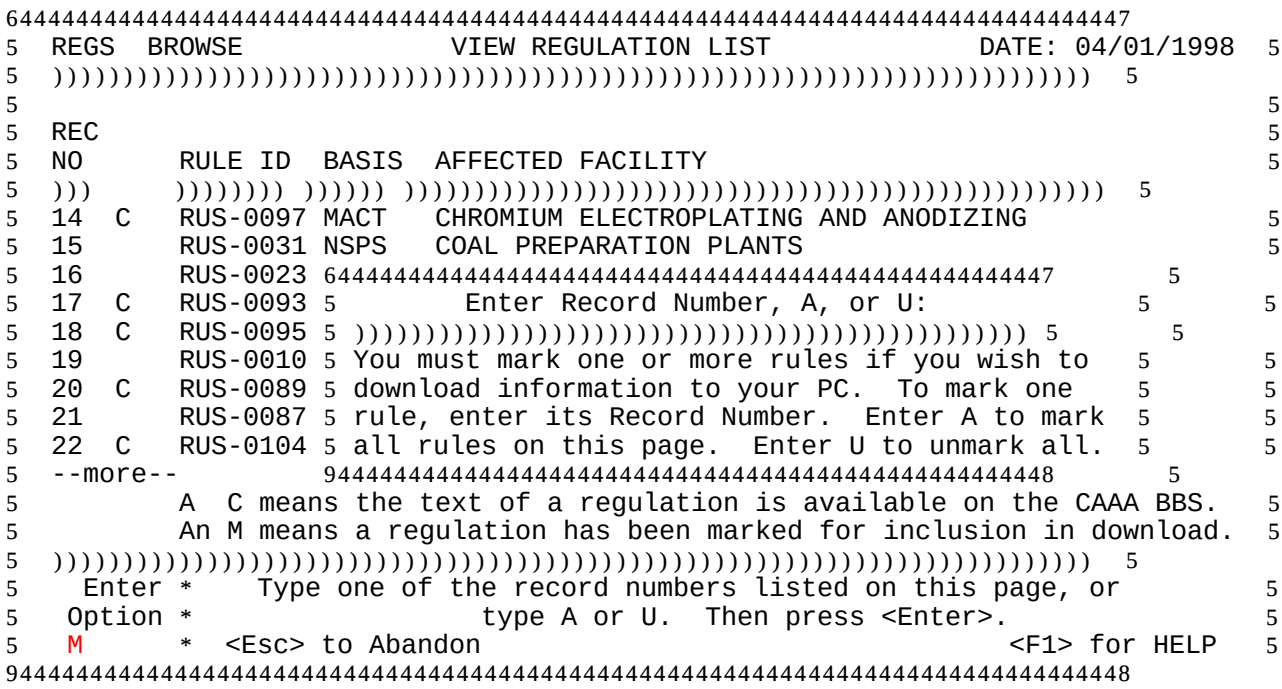

Figure 7.14 - Browse Mark Option

BBS Edit Module

The Edit module allows state and local agencies to add summaries of their own rules to the data base, making this information available to all TTN users. You may include all your rules or just those that you want to share with others. Adding and updating your agency's regulations is easy. To get started you need a password to access the data entry module of the regulation data base. Contact the RBLC System Administrator at (919) 541-2736 for a password.

The Edit module uses the same menu-driven system that you know from the RBLC's control technology determination data base. It includes context-sensitive on-line help at all menus and prompts to assist you with your input. When you choose the Edit option from the regulation data base Main menu, the system prompts you to enter a password. After verifying your password, the system displays the Record Selection menu. This menu works the same way as the Record Selection menu in the Edit module for the control technology determination data base. Refer to part 5 of this manual for more information.

Choose from the following options:

- <A>dd a new rule to the data base. When you add the regulation, the system assigns it an 8-character rule identifier (much like the RBLCID).

- <E>nter the rule identifier for one particular regulation whenever you want to view or update information.

- <L>ist all the rules in the data base for your state or local agency.

Each entry, or rule, in the regulation data base consists of regulation-, process-, and pollutant-level data. Each rule corresponds to an affected facility which consists of one or more processes that are regulated by the rule. Data at the process level includes process type, SCC code, and additional notes for details about the process itself. Each process, in turn, consists of information on one or more pollutants and the emission limits required by the regulation. Pollutant-level information includes details about add-on equipment and/or pollution prevention methods that can satisfy the rule; estimated capital costs and operations and maintenance costs; and cost effectiveness in dollars per ton.

To edit an existing rule, use one of the options from the Record Selection menu to select a particular rule. Then move to the appropriate regulation, process, or pollutant data screen (see Figures 7.9, 7.11, and 7.12) and make your changes. You can also add or delete processes and pollutants for existing rules. Press F1 at any time to view context-sensitive HELP about your menu choices and about what data the system is expecting. Refer to part 5 of this manual for more information about the editing commands.

When you add a new rule, the system displays the regulation, process, and pollutant data screens one after the other. Each of the data fields was described earlier in this section. Try to fill in as much information as possible when you are adding a new rule, and be sure to use standard terms and abbreviations. Other users interested in your agency's rules will be using the query module to access this information. Complete and consistent data help insure that searches with any of the allowable fields produce the desired results. Use the Query module if you want to download a copy of your rules.

USER'S MANUAL FOR THE RBLC DATA BASE

APPENDICES

USER'S MANUAL FOR THE RBLC DATA BASE

Appendix A -- Agency Code Listing

ALABAMA

AL001	Alabama Dept of Environmental 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
AK999	Other Alaska

AMERICAN SAMOA

AS001	American Samoa Env Quality Commission
AS999	Other American Samoa

ARIZONA

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

ARKANSAS

AR001	Arkansas Dept of Poll Ctrl & Ecology
AR999	Other Arkansas

CALIFORNIA

CA001	California Air Resources Board
CA002	Amador County APCD, CA
CA003	Bay Area AQMD, CA
CA004	Butte County APCD, CA

CA005	Calaveras County APCD, CA
CA006	Colusa County APCD, CA
CA007	El Dorado County APCD, CA
CA046	Feather River AQMD, CA
CA008**	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[1]	Kings County APCD, CA
CA014	Lake County AQMD, CA
CA015	Lassen County APCD, CA
CA016[1]	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
CA047	San Joaquin Valley Unified APCD - Central Regional Office, CA
CA048	San Joaquin Valley Unified APCD - Northern Regional Office, CA
CA049	San Joaquin Valley Unified 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[1]	Stanislaus County APCD, CA
CA039[1]	Sutter County APCD, CA
CA040	Tehama County APCD, CA
CA041[1]	Tulare County APCD, CA
CA042	Tuolumne County APCD, CA
CA043	Ventura County APCD, CA
CA044	Yolo-Solano APCD, CA

** No longer active. Listed for historical purposes only.

CA045[1]	Yuba County APCD, CA
CA999	Other California

COLORADO

CO001	Colorado Dept of Health - Air Poll Ctrl
CO002	Boulder County Health Department, CO
CO003	Denver City-Co Air Qual/Env Prot, CO
CO004	El Paso County Health Department, CO
CO005	Jefferson Co Dept of Health & Env, CO
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 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
DE999	Other Delaware

DISTRICT OF COLUMBIA

DC001	DC Air Qual Control & Monitoring Branch
DC999	Other District of Columbia

FLORIDA

FL001	Florida Dept of Env Regulation
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	Palm Beach County Public Health Unit, FL
FL009	Pinellas Co Dept of Env Mgmt, FL
FL010	Sarasota County Air Program, FL
FL999	Other Florida

GEORGIA

GA001	Georgia Department of Natural Resources
GA999	Other Georgia

GUAM

GU001	Guam Environmental Protection Agency
GU999	Other Guam

HAWAII

HI001	Hawaii Clean Air Branch
HI999	Other Hawaii

IDAHO

ID001	Idaho Dept of Health & Welfare
ID999	Other Idaho

ILLINOIS

IL001	Illinois EPA, Div of Air Poll Control
IL002	Bedford Park Env Qual Ctrl Board, IL
IL003	Bensenville Air Poll Control Dist, IL
IL004	City of Chicago, Env Prot Div, IL
IL005	City of Evanston-Dept Bldg & Zoning, IL
IL006	Cook Co Dept of Env Control, IL
IL007	Dupage County Health Department, IL
IL008	Village of McCook Env Board, IL
IL999	Other Illinois

INDIANA

IN001	Indiana Dept of Env Mgmt, Ofc of Air
IN002	Anderson Air Pollution Control Dept, IN
IN003	E. Chicago Dept of Air Qual Control, IN

IN004	Evansville Air Pollution Control, IN
IN005	Gary Air Pollution Control, IN
IN006	Hammond Air Pollution Control Dept, IN
IN007	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
IN999	Other Indiana

IOWA

IA001	Iowa Department of Natural Resources
IA002	Linn County Health Department, IA
IA003	Polk County Physical Planning Dept, IA
IA999	Other Iowa

KANSAS

KS001	Kansas Bureau of Air and Waste Mgmt
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	Maryland Department of the Environment
MD002	Allegany County Health Department, MD
MD003	Anne Arundel Co Air Qual Cont Prog, MD

MD004	Baltimore City Health Department, MD
MD005	Baltimore Co Bur Air Qual/Waste Mgmt, MD
MD006	Frederick County Health Department, MD
MD007	Harford County Health Department, MD
MD008	Howard County Health Department, MD
MD009	Montgomery County DEP, MD
MD010	Prince George's County Health Dept, MD
MD999	Other Maryland

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
MA999	Other Massachusetts

MICHIGAN

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

MINNESOTA

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

MISSISSIPPI

MS001	Mississippi Dept of Env Quality
MS999	Other Mississippi

MISSOURI

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 Env Control
NE002	Lincoln-Lancaster Co Health Dept, NE
NE003	Omaha City Air Quality Control Div, NE
NE999	Other Nebraska

NEVADA

NV001	Nevada Dept of Cons and Natural Res
NV002	Clark Co Health Dist, Div APC, NV
NV003	Washoe County District Health Dept, 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 Env Improvement Div/Air Qual
NM002	Albuquerque Env Health & Energy Dept NM
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

OHIO

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 Air Quality Service
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 Bureau of Air Poll Ctrl, PA
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 Dept of Air Poll Control, TN
TN004	Memphis and Shelby Co Health Dept, TN
TN005	Metro Health/Nashville & Davidson Co, TN
TN999	Other Tennessee

TEXAS

TX001	Texas Air Control Board
TX002	City of Dallas, Health & Human Serv, TX
TX003	City of Houston, Bureau Air Qual Cont, 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

UTAH

UT001	Utah Bureau 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

VIRGINIA

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

WV001	West Virginia Air Pollution Control Comm
WV999	Other West Virginia

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

WY001	Wyoming Air Qual Div, Dept of Env Qual
WY999	Other Wyoming

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

USER'S MANUAL FOR THE RBLC DATA BASE

Appendix B -- Process Code Listing

CODE	PROCESS TYPE
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

CODE	PROCESS TYPE
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 (except 22.006)
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
29.003	Industrial Landfills
29.002	Industrial Wastewater/Contaminated Water Treatment
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

CODE	PROCESS TYPE
41.026	Leather Surface Coating
41.009	Magnetic Tape Surface Coating
41.010	Magnetic Wire Surface Coating
41.011	Metal Coil Surface Coating
41.012	Metal Furniture Surface Coating
41.013	Miscellaneous Metal Parts and Products Surface Coating
41.014	Paper, Plastic & Foil Web Surface Coating (except 41.007 & 41.018)
41.015	Plastic Parts for Business Machines Surface Coating
41.016	Plastic Parts & Products Surface Coating (except 41.015)
41.017	Polymeric Coating of Fabrics
41.018	Pressure Sensitive Tapes and Labels Coating
41.019	Printing - Forms
41.020	Printing - News Print
41.021	Printing - Packaging
41.022	Printing - Publication
41.023	Printing/Publication (except 41.007 & 41.019-022)
41.024	Ship Building & Repair Surface Coating
41.025	Wood Products/Furniture Surface Coating (except 41.006)
41.999	Other Surface Coating/Printing/Graphic Arts Sources
42.000	ORGANIC LIQUID STORAGE & MARKETING (PETROLEUM 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
42.010	Volatile Organic Liquid Marketing (except 42.009)
42.009	Volatile Organic Liquid Storage
42.999	Other Liquid Marketing Sources
49.000	ORGANIC EVAPORATIVE LOSSES (except 41 & 42)
49.001	Aerosol Can Filling
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

CODE	PROCESS TYPE
49.007	Ink Manufacturing
49.008	Organic Solvent Cleaning & Degreasing (except 49.006)
49.009	Paint/Coating/Adhesives Manufacturing
49.010	Paint Stripping
49.999	Other Organic Evaporative Loss Sources
50.000	PETROLEUM/NATURAL GAS PRODUCTION AND REFINING
50.002	Natural Gas/Gasoline Processing Plants
50.001	Oil and Gas Field Services
50.003	Petroleum Refining Conversion Processes (cracking, 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 50.001-50.010 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

CODE	PROCESS TYPE
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

CODE	PROCESS TYPE
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 Processes

CODE	PROCESS TYPE
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

CODE	PROCESS TYPE
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

CODE	PROCESS TYPE
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

CODE	PROCESS TYPE
99.000	MISCELLANEOUS SOURCES
99.001	Abrasive Blasting/Cleaning
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

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Appendix C -- Standard Emission Limit Units by Process

Clearinghouse Process Code	**/ Name or Description**	**Pollutant**	**Suggested Emission Units**
11.001 -	Electric Utility Steam Generators	Particulate	Lb/MMBTU (see Note #1)
11.999	Fossil Fuel-fired Steam Generators	Particulate	Lb/MMBTU (see Note #1)
15.001 -	I. C. Engines	Particulate	G/B-HP-H (see Note #1)
15.999	Stationary Gas Turbines	Particulate	ppm @ 15% O_2 (see Note #1)
21.001	Municipal Waste Incinerators	All	gr/dscf corr to 12% CO_2 (see Note #1)
21.004	Sewage Sludge Incineration		Lb/Ton of dry sludge input
30.002	Kraft Pulp Mills - Recovery Furnace	Particulate	gr/dscf corr to 8% O_2 (see Note #1)
	Kraft Pulp Mills - Lime Kiln	Particulate	gr/dscf corr to 10% O_2 (see Note #1)
	Kraft Pulp Mills - Smelt Dissolving Tanks	Particulate	Lb/Ton BLS (see Note #1)
	Kraft Pulp Mills - Digesters, Brown Stock Washers, Evaporators, Oxidation, Stripping System		ppm (by volume) corr to 10% O_2
41.002	Auto & Light Truck Surface Coating		Kg/1 (lb/Gal) applied coating solids
41.004	Can Surface Coating		Kg/1 (Lb/Gal) applied coating solids
41.007	Flexible Vinyl & Urethane Coating and Printing		Kg/Kg/ (Lb/Lb) ink solids

Clearinghouse Process Code / Name or Description		Pollutant	Suggested Emission Units
41.008	Large Appliance Surface Coating		Kg/1 (Lb/Gal) of applied coating solids
41.011	Metal Coil Surface Coating		Kg/l (Lb/Gal) applied coating solids
41.012	Metal Furniture Surface Coating		Kg/1 (Lb/Gal) applied coating solids
41.015	Plastic Parts for Business Machines Surface Coating		Kg/1 (Lb/Gal) applied coating solids
41.018	Pressure Sensitive Tape & Label Surface Coating		Kg/Kg (Lb/Lb) applied coating solids
41.019 - 41.023	Printing		% of total mass of VOC solvents & H_2O used
42.002	Gasoline Bulk Terminals		See Note #2
42.005/6	Vessels for Petroleum Liquid Storage		See Note #2
49.003	Dry Cleaning - Petroleum Solvents		See Note #2
50.003	Petroleum Refining - Cracking		Lb/1000 Lb or Lb/MMBTU or % by volume
50.006	Petroleum Refining - Claus Sulfur Recovery Units		% by volume
	Petroleum Refining - Flue Gas		gr/dscf (H_2S)
50.007	Petroleum Refining - Equip. Leaks		See Note #2
61.009	Phosphate Fertilizers Pdtn.	Total Fluoride	Lb/Ton (see Note #1)
62.001	Ammonium Sulfate Pdtn.		Lb/Ton ammonium sulfate pdtn.
62.014	Nitric Acid Plants	NOX	Lb/Ton (see Note #1)
62.015	Sulfuric Acid Plants	SO_2 & Acid Mist	Lb/Ton (see Note #1)

Clearinghouse Process Code	/ Name or Description	Pollutant	Suggested Emission Units
64.002	Equip. Leaks - Synthetic Organic Chemical Mfg. Industry		See Note #2
65.001 - 65.999	Synthetic Fibers Production		Kg/Mega-gram (Lb/1000 Lb) solvent feed
70.007	Grain Elevators	Particulate	gr/dscf (see Note #1)
81.003	Ferroalloy Production		Lb/MW-H or % (volume basis)
81.004	Iron Foundries		gr/dscf
81.006	Steel Plants - Electric Arc	Particulate	gr/dscf (see Note #1)
82.001	Lead Acid Battery Mfg.		gr/dscf or Lb/Ton lead feed
82.005	Primary Aluminum Pdtn.		Lb/Ton
82.006	Primary Copper Smelting	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 Pdtn.	Particulate	gr/dscf (see Note #1)
82.013	Secondary Lead Smelting	Particulate	gr/dscf (see Note #1)
90.004	Hot-Mix Asphalt Processing		gr/dscf
90.011	Coal Hand./Proc./Prep./Cleaning	Particulate	gr/dscf (see Note #1)
90.016	Glass Mfg.	Particulate	Lb/Ton (see Note #1)
90.019	Lime/Limestone Handling/Kilns/Storage/Mfg.		Lb/Ton
90.021	Metallic Mineral/Ore Processing		grams/dscm (gr/dscf)

Clearinghouse Process Code	/ Name or Description	Pollutant	Suggested Emission Units
90.024	Non-metallic Mineral Processing		grams/dscm (gr/dscf)
90.026	Phosphate Rock Processing		Lb/Ton
90.028	Portland Cement Plants	Particulate	Lb/Ton (see Note #1)
90.033	Wool Fiberglass Mfg.		Lb/Ton glass pulled
90.034	Asphalt Roofing Products Mfg.		Kg/Mega-gram (Lb/1000 Lb)
99.015	Rubber Tire Mfg. Industry		% of VOC used

Note #1:

Standard emission units have been established for these processes. These units are required for reporting standardized emission limits in the RBLC data base for these processes.

Also, for these processes, percent (%) has been established as the unit for reporting standardized emission limits for opacity.

Note #2:

Applicable regulations involve process controls and/or modifications. No emission units stated.

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Appendix D -- Abbreviations for Processes, Units, and Pollutants

Abbreviations for Processes and Descriptors

Abbreviation	Process or Descriptor
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
HVLP	high-volume, low pressure (spray guns)
I.C.	internal combustion
INCIN	incinerator
INDEP	independent
INTERNAT	international

Abbreviation	Process or Descriptor
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
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

Abbreviation	Emission Limit Unit
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/HP-H	grams per horsepower-hour
G/O	gas/oil
GAL/M	gallons per minute
GR	grains
H	hour
HP	horsepower
J	joule
KG	kilogram
KW	kilowatt
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

Abbreviation	Emission Limit Unit
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	on
TPY	tons per year (found in notes of determinations)
VOL	volume
WKS	weeks
YR	year

Abbreviations for Pollutants

Abbreviation	Pollutant
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
HCL	hydrochloric acid
HCN	hydrogen cyanide
HDM	hexamethylene diisocyanate monomer
HF	hydrogen fluoride
HG	mercury
HHD	homopolymer of HDM (see above)
H2O	water
H2S	hydrogen sulfide
H2SO4	sulfuric acid
MA	maleic anhydride
MC ACETATE	methyl cellusolve acetate

Abbreviation	Pollutant
MEK	methyl ethyl ketone
MG	magnesium
MI KETONE	methyl isobutyl ketone
MMH	methyl hydrazine
MN	manganese
MO	molybdenum
NAOH	sodium hydroxide
NA2SO4	salt cake
NH3	ammonia
NH4	ammonium
NH4CL	ammonium chloride
NI	nickel
NMHC	nonmethane hydrocarbons
NMOC	nonmethane organic carbon
NOX	nitrogen oxide
NO2	nitrogen dioxide
N2O	nitrous oxide
PAH	polynuclear aromatic hydrocarbons
PB	lead
PCB	polychlorinated biphenyls
PCDF	polychlorinated dibenzo furans
PCNB	pentochloronitrobenzene herbicide
PM, PM10	particulate matter
POCL3	phosphorous oxychloride
POHC	principle organic hazardous constituents
RHC	reactive hydrocarbons
ROC	reactive organic compounds
ROG	reactive organic gases
RSC	reduced sulfur compounds
S	sulfur
SB	antimony
SE	selenium
SN	tin
SO2	sulfur dioxide
SO3	sulfur trioxide
TCDD	2,3,7,8-tetrachlorodibenzo-P-dioxin
TCDF	tetrachlorodibenzo furan
TCE	trichloroethylene
TC-ETHANE	1,1,1-trichloroethane
TICL4	titanium tetrachloride
TMT	tetramethyl tin
TRS	total reduced sulfur

Abbreviation	Pollutant
U	uranium
UF4	uranium tetrafluoride
V	vanadium
VC	vinyl chloride
VCM	vinyl chloride monomer
VE	visible emissions
VOC	volatile organic compounds
ZN	zinc
ZRSO4	zirconium sulfate

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Appendix E -- Information on the OAQPS TTN BBS

What is OAQPS TTN?

OAQPS, the EPA Office of Air Quality Planning and Standards, provides information and technical support on air pollution control. Its four divisions -- Air Quality Strategies and Standards; Emissions, Monitoring, and Analysis; Emission Standards; and Information Transfer and Program Integration -- provide services to EPA regional offices, state and local agencies, consultants, industry, and the general public. These services include clearinghouses, conferences, reports, manuals, newsletters, support centers, workshops, classroom training, self-instructional courses, and TTN.

TTN, Technology Transfer Network, is an electronic network of information areas (also referred to as bulletin boards) developed and operated by OAQPS. The network provides information and technology exchange in different areas of air quality management, ranging from emission test methods to regulatory air pollution models. **The service is free except for the cost of the phone call.**

How does it work?

You access the network from your own computer using either of two access methods. For Internet users, the TTN maintains several complementary sites:

WWW address:	www.epa.gov/ttn/
TELNET address:	ttnbbs.rtpnc.epa.gov
FTP address:	ttnftp.rtpnc.epa.gov

The World Wide Web (WWW) site lets users access TTN with the familiar "point and click" graphical user interface of a web browser. No special IDs are needed, and files can be freely searched and transferred to your local computer. The TELNET site provides access to traditional BBS functions, except downloading. The FTP site allows users of FTP client software and most web browsers to transfer TTN files over the Internet.

The second way to access TTN is through the use of a modem and communications software. Your computer connects through the phone lines with a computer at EPA, where you log on to the TTN BBS. TTN BBS uses text-based menus and commands to allow you to find and view information of interest.

Once you're on the network, you've got all the tools, technology, and information in any of the bulletin boards available at your fingertips. You can find tools to estimate air pollutant emissions,

download computer code for regulatory air models, read a Title summary of the 1990 Clean Air Act Amendments, find a course offered by the Air Pollution Training Institute, or request technical support in implementing an air pollution control program. You can transfer files, communicate with other users, leave a question for others to answer, or upload a file for others to use.

Who can use it?

Anyone in the world wanting to exchange information about air pollution, including personnel in state and local agencies, the private sector, EPA, and foreign countries.

How do I access the TTN Web?

You need an Internet account, a connection to the Internet, and a browser to view information on the TTN Web. If you need help with these items, contact your information technology group or a local Internet Service Provider (ISP). When you've gotten on to the Internet and have your browser working, point it to the TTN Web address: www.epa.gov/ttn/.

How do I access the TTN BBS?

Set up your computer, call the network, and register on-line. Once your registration is accepted, you're free to use the network whenever you need to. Follow the steps below.

Step 1 Install a modem and communications software on your computer, if you don't already have them. There are a wide variety to choose from.

Step 2 Set the following parameters on your communications software:

Data Bits:	8
Parity:	N
Stop Bits:	1
Terminal Emulation:	VT100 or VT/ANSI
Duplex:	Full

Step 3 Call the network using your communications software:

(919) 541-5742 for modems up to 14,400 bps

Step 4 Log on to the system and select <R> from the menu for unregistered users. Answer the questions on the screen about yourself. Press the ENTER key after each response, except single characters like Y (yes) or N (no).

First Name? (Type your first name.)
Last Name? (Type your last name.)

Calling from (City, State)? (Type your city and state, for example, **Raleigh, NC**).
You are asked to verify this information. (**Y** or **N**)

Next select a password. After this information is accepted, you will be asked a few more questions. When your registration is completed, you will see the full menu available to registered users. You can now access any of the bulletin board systems, select other options, or exit the system.

What's on the network?

Over a dozen bulletin boards are currently available on the network, with more to come. Bulletin boards are created when new topics become of interest to the TTN user community. For example, we recently added the Ozone Transport Assessment Group (OTAG) bulletin board.

AIRS - Aerometric Information Retrieval System facilitates the exchange of information among state and local agencies that utilize AIRS documents and information.

AMTIC - Ambient Monitoring Technology Information Center contains information on all the Reference and Equivalent methods for the criteria pollutants.

APTI - Air Pollution Training Institute describes current course offerings on air pollution, including curriculum, schedules, locations, costs, and up-to-date changes.

CAAA - Clean Air Act Amendments has information on the Clean Air Act Amendments of 1990, including summaries and overviews. Information on regulatory requirements, implementation programs, criteria pollutants, and technical analyses is being developed. CAAA allows regulators, the regulated community, and the public to access information that will help them understand, implement, and comply with the law.

CHIEF - Clearinghouse for Inventories/Emission Factors contains the latest information on air emission inventories and emission factors. It provides access to tools for estimating emissions of air pollutants and performing air emission inventories for both criteria and toxic pollutants. It includes emission estimation data bases, newsletters, announcements, and guidance on performing inventories.

COMPLI - Stationary Source Compliance provides stationary source and asbestos compliance policy and guidance information.

CTC - Control Technology Center offers free engineering assistance, a hotline, and technical guidance to state and local air pollution control agencies in implementing air pollution control programs.

EMTIC - Emission Measurement Technical Information Center provides access to emission test methods and testing information for the development and enforcement of national, state, and local emission prevention and control programs. It includes computer programs, stack testing information, regulations, EMTIC documents, the latest changes to methods, bulletins, contact names within EMTIC, and public domain software. It offers technical guidance on stationary source testing issues in support of the development and implementation of emissions standards, emission factors, and State Implementation Plans.

NATICH - National Air Toxics Information Clearinghouse provides information from state and local agencies regarding their air toxics programs as well as information on current federal activities in controlling air toxics.

NSR - New Source Review offers guidance and technical information within the NSR permitting community.

OMS - Office of Mobile Sources provides information pertaining to mobile source emissions, including regulations, test results, models, and guidance.

ORIA - Office of Radiation and Indoor Air disseminates information to state and local governments, industry, professional groups, and citizens to promote actions to reduce exposure to harmful levels of radiation and indoor air pollutants.

RBLC - RACT/BACT/LAER Information System contains information on RACT, BACT, or LAER determinations made throughout the country. The data base is available to federal, state, and local agency staff, as well as private industry representatives who are preparing permit applications.

SBAP - Small Business Assistance Program provides support to state and local small business assistance programs by serving as a communications network to share materials as well as new federal rules that have been developed related to small business issues.

SCRAM - Support Center for Regulatory Air Models provides regulatory air quality model computer code. It contains newly-developed air quality models as well as existing ones that are adapted and improved. You can download computer code, test data, output results, instructions on how to run models, modeling analysis, meteorological data, and documentation. Model Change Bulletins describe changes made to each model.

Why use it?

It's easy! You log on, answer questions, and select menu options. ***It's useful!*** You'll discover all kinds of information and tools that you can use in your job. ***It saves time! It saves money! It saves paper! It saves headaches!*** Say goodbye to phone tag. Leave and receive messages anytime the network is up. Exchange information over long distances and at high speed without waiting for the mail to arrive. ***It's world-wide!*** You can communicate with people all over the world -- people you

know and people you don't know who are involved in air pollution control. ***It's always available! It's got it all!*** Over a dozen different bulletin boards are up and running; more are on the way. ***It's readily accessible!*** Access the latest information whenever you need it.

For BBS access: **(919) 541-5742** (modems up to 14,400 bps)

For Internet access:

www.epa.gov/ttn/
ttnbbs.rtpnc.epa.gov
ttnftp.rtpnc.epa.gov

When can I use it?

24 hours a day, 7 days a week except Monday morning 8-12 EST, when the system is down for maintenance and backup.

Who do I call?

If you need help accessing the system, call the systems operator by phone at (919) 541-5384 in Durham, North Carolina during normal business hours 1-5 EST. For help with your Internet connection, contact your local ISP.

HOW TO USE OAQPS TTN

TOP MENU

From this menu you have access to all the features on the TTN. On the Web, click the appropriate link to navigate to the information you want. On the TTN BBS, you select menu options to move through the system. To select an option, type the character specified in <> brackets. When your see <CR>, (for carriage return), press the ENTER key. Also press the ENTER key after responding to a question. Press **S** to skip a series of text screens. Press **P** to pause a screen that is scrolling and then press the ENTER key to resume scrolling.

From the Top menu, select *Gateway to TTN Technical Areas (Bulletin Boards)* to access any of bulletin boards on the network. Each BBS has a similar menu structure from which you can view information, transfer files, send or receive messages, or execute utility functions.

OTHER FEATURES

In addition to the Technical Areas, the TTN offers more general features and information in the following categories:

User Support/Help offers a menu of tips and tricks, answers to frequently asked questions, and help on performing typical TTN tasks such as transferring files.

BBS Descriptions presents a brief description of the contents of each of the major technical areas.

System Utilities contains dearchivers and readers. Use dearchivers for compressed (ZIP) files that you download from the TTN. Use Acrobat readers to read specially-formatted PDF document files.

Leave SYSOP a Message lets you correspond with the TTN system operator if you need help with a problem relating to system operation.

TTN Policies explains TTN guidelines for using the network and sharing information with other TTN users.

USER'S MANUAL FOR THE RBLC DATA BASE

Appendix F -- Valid Values for Data Elements

This appendix lists appropriate values for various data elements found in the RBLC data base. Some data elements are not listed in this appendix because listing valid values is not practical (i.e., RBLC ID). You can also find this information while in the RBLC data base by using the HELP screens -- just press F1 at any time while using the system.

EPA Region

Region 1 --	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
Region 2 --	New Jersey, New York, Puerto Rico, Virgin Islands
Region 3 --	Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia
Region 4 --	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
Region 5 --	Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin
Region 6 --	Arkansas, Louisiana, New Mexico, Oklahoma, Texas
Region 7 --	Iowa, Kansas, Missouri, Nebraska
Region 8 --	Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
Region 9 --	American Samoa, Arizona, California, Guam, Hawaii, Nevada
Region 10 --	Alaska, Idaho, Oregon, Washington

State Codes

ALabama	**ID**aho	**M**on**T**ana	**R**hode **I**sland
Alas**K**a	**IL**linois	**NE**braska	**S**outh **C**arolina
American **S**amoa	**IN**diana	**N**e**V**ada	**S**outh **D**akota
Ari**Z**ona	**I**ow**A**	**N**ew **H**ampshire	**T**e**N**nessee
ARkansas	**K**an**S**as	**N**ew **J**ersey	**T**exa**S**
CAlifornia	**K**entuck**Y**	**N**ew **M**exico	**UT**ah
COlorado	**L**ouisian**A**	**N**ew **Y**ork	**V**ermon**T**
Connec**T**icut	**M**ain**E**	**N**orth **C**arolina	**V**irgin **I**slands
DElaware	**M**arylan**D**	**N**orth **D**akota	**V**irgini**A**
District of **C**olumbia	**MA**ssachusetts	**OH**io	**WA**shington
FLorida	**MI**chigan	**OK**lahoma	**W**est **V**irginia
Georgi**A**	**M**i**N**nesota	**OR**egon	**WI**sconsin
GUam	**M**i**S**sissippi	**P**ennsylvani**A**	**WY**oming
Hawai**I**	**M**iss**O**uri	**P**uerto **R**ico	**OT**her Federal

Agency Code -- see Appendix A

Process Type Code -- see Appendix B

Pollutant Name and CAS Number -- see also Appendix D

POLLUTANT	ALTERNATE NAME	CAS NUMBER
1,1,1 TRICHLOROETHANE		71-55-6
2,3,7,8 TCDD	2,3,7,8-tetrachlorodibenzo-P-dioxin	1746-01-6
2-BUTANONE		78-93-3
ACETONE		67-64-1
ACRYLAMIDE		79-06-1
ACRYLAMIDE MONOMER		79-06-1
ACRYLIC ACID		79-10-7
ACRYLONITRILE		107-13-1
AG	Silver	7440-22-4
ALUMINUM OXIDE		1344-28-1
AMMONIA		7664-41-7
AN		Acrylo
nitrile		107-13-1
AR	Argon	13994-71-3
ARGON		13994-71-3
AS	Arsenic	7440-38-2
ASBESTOS		1332-21-4
BA	Barium	7440-39-3
BAP		Benzo(
a)pyrene		50-32-8
BE	Beryllium	7440-41-7
BENZENE		71-43-2
BENZO-A-PYRENE		50-32-8
BENZOTRICHLORIDE		98-07-7
BENZYL CHLORIDE		100-44-7
BR	Bromine	7726-95-6
BUTYL ACETATE		123-86-4
BZ	Benzene	71-43-2
CA	Calcium	7440-70-2
CALCIUM HYDROXIDE		1035-62-0
CAPROLACTAM		105-60-2
CARBON BLACK		1333-86-4
CARBON TETRACHLORIDE		56-23-5
CCL2F2	Dichlorodifluoromethane	75-71-8
CD	Cadmium	7440-43-9
CHCL3	Chloroform	67-66-3
CHLORINE		7782-50-5

POLLUTANT	ALTERNATE NAME	CAS NUMBER
CHLORINE DIOXIDE		10049-04-4
CHLOROFORM		67-66-3
CHROME	Chromium	7440-47-3
CHROMIC ACID		1333-82-0
CL	Chlorine	7782-50-5
CL2	Chlorine (gas)	10049-04-4
CO	Carbon Monoxide	630-08-0
CO2	Carbon Dioxide	124-38-9
COBALT		7440-48-4
CR	Chromium	7440-47-3
CRO3	Chromium Trioxide	1333-82-0
CS	Cesium	7440-46-2
CU	Copper	7440-50-8
DCB	1,4-dichloro-2-butene	764-41-0
DCB		25321-22-6
DIBUTYL PHTHALATE		84-72-2
DIISOBUTYL KETONE		108-83-8
DIMETHYL ACETAMIDE		127-19-5
DIMETHYL FORMAMIDE		68-12-2
DIOXINS		SEQ. 128
ETHYL ACETATE		141-78-6
ETHYL ALCOHOL		64-17-5
ETHYL BENZENE		100-41-4
ETHYLBENZENE		100-41-4
ETHYLENE GLYCOL		107-21-1
ETHYLENE OXIDE		75-21-8
ETO	Ethylene Oxide	75-21-8
F	Fluorine	7782-41-4
FLUORIDE		16984-48-8
FLUORIDES		16984-48-8
FORMALDEHYDE		50-00-0
FREON 12		75-71-8
GRAPHITE		7782-42-5
H2O	Water	7732-18-5
H2S	Hydrogen Sulfide	7783-06-4
H2SO4	Sulfuric Acid	7664-93-9
H2SO4 MIST		7664-93-9
H2SO4 VAPORS		7664-93-9
HBR	Hydrogen Bromide	10035-10-6
HC		SEQ. 11
HCL	Hydrochloric Acid	7647-01-0

POLLUTANT	ALTERNATE NAME	CAS NUMBER
HCN	Hydrogen Cyanide	7490-8
HEPTANE		142-82-5
HF	Hydrogen Fluoride	7664-39-3
HG	Mercury	7439-97-6
HYDRAZINE		302-01-2
HYDROGEN PEROXIDE		7722-84-1
ISOOCTYL ALCOHOL		52738-99-5
ISOPROPYL ACETATE		94-11-1
ISOPROPYL ALCOHOL		67-63-0
MAGNESIUM		7439-95-4
MALEIC ANHYDRIDE		108-31-6
MEK	Methyl Ethyl Ketone	78-93-3
MEK-PEROXIDE	Methyl Ethyl Ketone Peroxide	1338-23-4
METHACRYLIC ACID		79-41-4
METHANE		74-82-8
METHANOL		67-56-1
METHYL AMYL KETONE		110-43-0
METHYL BROMIDE		74-83-9
METHYL ETHYL KETONE		78-93-3
METHYL ISOBUTYL KETONE		108-10-1
METHYLENE CHORIDE		75-09-2
MG	Magnesium	7439-95-4
MINERAL SPIRITS		64475-85-0
MMH	Methyl Hydrazine	60-34-4
MN	Manganese	7439-96-5
MO	Molybdenum	7439-98-7
N-BUTYL ACETATE		123-86-4
N-BUTYL ALCOHOL		71-36-3
N-PROPYL ACETATE		109-60-4
N2O	Nitrous Oxide	10024-97-2
NAOH	Sodium Hydroxide	1310-73-2
NAPHTHALENE		91-20-3
NH3	Ammonia	7664-41-7
NH4	Ammonium	14798-03-9
NH4CL	Ammonium Chloride	12125-02-5
NI	Nickel	7440-02-0
NICKEL		7440-02-0
NITRIC ACID		7697-37-2
NO2	Nitrogen Dioxide	10102-44-0
P-TOLUIDINE		106-49-0
PAH	Polynuclear Aromatic Hydrocarbons	SEQ. 6

POLLUTANT	ALTERNATE NAME	CAS NUMBER
PB	Lead	7439-92-1
PCB	Polychlorinated Biphenyls	1336-36-3
PERCHLOROETHYLENE		127-18-4
PHENOL		108-95-2
PHOSPHORIC ACID		7664-38-2
PHOSPHOROUS		7723-14-0
POCL3	Phosphorous Oxychloride	10025-87-3
POTASSIUM HYDROXIDE		1310-58-3
PROPYLENE OXIDE		75-56-9
S	Sulfur	7704-34-9
SB	Antimony	7440-36-0
SE	Selenium	7782-49-2
SILVER		7440-22-4
SN	Tin	7440-31-5
SO2	Sulfur Dioxide	7446-09-5
SO3	Sulfur Trioxide	7446-11-9
SODIUM BICHROMATE		10588-01-9
STRONTIUM CHROMATE		7789-06-2
STYRENE		100-42-5
SULFATES		14808-79-8
SULFURIC ACID		7664-93-9
SULFURIC ACID MIST		7664-93-9
TCDD	2,3,7,8-tetrachlorodibenzo-P-dioxin	1746-01-6
TICL4	Titanium Tetrachloride	7550-45-0
TITANIUM DIOXIDE		13463-67-7
TL	Thallium	7440-28-0
TOLUENE		108-88-3
TRICHLOROETHYLENE		79-01-6
TRIETHYLAMINE		121-44-8
U	Uranium	7440-61-1
UF4	Uranium Tetrafluoride	10049-14-6
URANIUM		7440-61-1
V	Vanadium	7440-62-2
XYLENE		1330-20-7
XYLENES		1330-20-7
ZINC		7440-66-6
ZINC CHROMATE		13530-65-9
ZN	Zinc	7440-66-6

Basis for Limit

BACT-PSD	Prevention of Significant Deterioration
BACT-Other	Other (i.e., T-BACT, Toxics-BACT, etc)
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
NESHAPS	National Emission Standards for Hazardous Air Pollutants
OTHER	Other Control Technology Standards

Emission Type

Point, Fugitive, or Area Source

USER'S MANUAL FOR THE RBLC DATA BASE

Appendix G - Examples of RBLC Standard Reports

Appendix F

REPORT DATE: 03/01/1998 INDEX OF CONTROL TECHNOLOGY DETERMINATIONS PAGE 1

YEAR	COMPANY NAME	RBLC ID	PROCESS TYPE	PERMIT DATE (EST/ACT)	PROCESS DESCRIPTION
91	FORMOSA PLASTICS CORP.	TX-0225	29.000	01/23/1990 ACT	FUGITIVES, PROCESS
			69.015		REGENERATOR, CO2
91	FORMOSA PLASTICS CORP.	TX-0227	29.000	01/23/1990 ACT	FUGITIVES FROM WASTEWATER
			29.000		FUGITIVES, PROCESS
			49.000		DRYER
			50.999		TANKS, 7
			70.007		SILOS, PELLET, 2
			70.999		PELLET HANDLING
91	FORMOSA PLASTICS CORPORATION	TX-0224	29.000	01/23/1990 ACT	FUGITIVE
			29.002		FUGITIVES FROM WASTEWATER
			40.000		VENTS, PROCESS
91	FORMOSA PLASTICS CORPORATION	TX-0228	29.000	01/23/1990 ACT	FUGITIVES
			62.003		HEATER, MOLTEN SALT
			62.007		HCL ABSORBER
91	HOCKLEY RAILCAR, INC.	TX-0223	29.000	02/16/1990 ACT	FUGITIVES
			40.000		PAINT BOOTHS, 2
			69.015		REGENERATION, CARBON
			99.001		BLASTER, SAND, 2
91	LAPORT CHEMICAL CORPORATION	TX-0226	29.000	05/31/1990 ACT	FUGITIVE
			42.009		REFRIGERATOR UNIT
			49.000		DRYERS, 2
			49.999		RECOVERY UNIT, VC
			70.007		SILO, ADDITIVES
			70.007		SILO, BLENDING
			70.007		SILO, PRODUCT
			70.007		SILO, RESIN
			70.007		SILO, STORAGE
			70.007		SILOS, RECEIVING, 4
			70.007		SILOS, STORAGE, 4
			99.999		BLOWERS, REACTOR, 2
			99.999		PRODUCT HANDLING

Appendix G

YEAR	COMPANY NAME	RBLC ID	PERMIT DATE (EST/ACT)	AGENCY	NAME OF CONTACT	TELEPHONE
PROCESS TYPE: 29.000 OTHER WASTE DISPOSAL (except 21 and 22)						
91	HOCKLEY RAILCAR, INC.	TX-0223	02/16/1990 ACT	TEXAS AIR CONTROL BO	DAVID L. HOWELL	(512)-451-5711
91	FORMOSA PLASTICS CORPORATION	TX-0224	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
91	FORMOSA PLASTICS CORP.	TX-0225	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
91	LAPORT CHEMICAL CORPORATION	TX-0226	05/31/1990 ACT	TEXAS AIR CONTROL BO	DONALD G. FINE	(512)-451-5711
91	FORMOSA PLASTICS CORP.	TX-0227	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN OLSEN	(512)-451-5711
91	FORMOSA PLASTICS CORPORATION	TX-0228	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
PROCESS TYPE: 29.002 Industrial Wastewater Treatment						
91	FORMOSA PLASTICS CORPORATION	TX-0224	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
PROCESS TYPE: 40.000 ORGANIC EVAPORATIVE LOSSES						
91	HOCKLEY RAILCAR, INC.	TX-0223	02/16/1990 ACT	TEXAS AIR CONTROL BO	DAVID L. HOWELL	(512)-451-5711
91	FORMOSA PLASTICS CORPORATION	TX-0224	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
PROCESS TYPE: 42.009 Volatile Organic Liquid Storage						
91	LAPORT CHEMICAL CORPORATION	TX-0226	05/31/1990 ACT	TEXAS AIR CONTROL BO	DONALD G. FINE	(512)-451-5711
PROCESS TYPE: 49.000 ORGANIC EVAPORATIVE LOSSES (except 41 AND 42)						
91	LAPORT CHEMICAL CORPORATION	TX-0226	05/31/1990 ACT	TEXAS AIR CONTROL BO	DONALD G. FINE	(512)-451-5711
91	FORMOSA PLASTICS CORP.	TX-0227	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN OLSEN	(512)-451-5711
PROCESS TYPE: 49.999 Other Organic Evaporative Loss Sources						
91	LAPORT CHEMICAL CORPORATION	TX-0226	05/31/1990 ACT	TEXAS AIR CONTROL BO	DONALD G. FINE	(512)-451-5711
PROCESS TYPE: 50.999 Other Petroleum/Natural Gas Production & Refining Sources						
91	FORMOSA PLASTICS CORP.	TX-0227	01/23/1990 ACT	TEXAS AIR CONTROL BO	KAREN OLSEN	(512)-451-5711

Appendix H (next two pages)

COMPANY NAME/SITE LOCATION: DIAMOND SHAMROCK CORP.
P.O. BOX 631
AMARILLO, TX 77173 MOORE COUNTY

PERMIT/FILE NO. TX-346 DATE OF PERMIT ISSUANCE-- 09/04/1981 ACT
START-UP DATE-- / /

DETERMINATION MADE BY: EPA REGION VI JOHN BUNYAK (214)-767-1594
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT NAME	EMISSION LIMITS (PRIMARY) (STANDARDIZED) POLLUTION PREVENTION/CONTROL EQUIPMENT RANKING INFORMATION	BASIS EST % EFF
BOILER, PROCESS, 2	240.00 MMBTU/H			
PROCESS CODE 11.004		SO2	103.8700 LB/H	BACT-PSD
SCC CODE		CAS NO. 7446-09-5	0.0000	0.000
			CONTROL METHOD: POLLUTION PREVENTION	
			FUEL SPEC: SCRUB FUEL GAS & 0.7% S FUEL OIL	
		NOX	130.0000 LB/H	BACT-PSD
		CAS NO.	0.0000	0.000
			CONTROL METHOD: POLLUTION PREVENTION	
			LOW NOX BURNERS	

NOTES:

COMPANY NAME/SITE LOCATION: DIAMOND SHAMROCK CORP.
P.O. BOX 631
AMARILLO, TX 77173 MOORE COUNTY

PERMIT/FILE NO. TX-346

DETERMINATION MADE BY: EPA REGION VI
AGENCY CONTACT PERSON: JOHN BUNYAK PHONE # (214)-767-1594

SCHEDULING INFORMATION:

	ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION	/ /
PERMIT ISSUED	09/04/1981 ACT
START UP	/ /
COMPLIANCE VERIFICATION	/ /

PROCESS NAME	POLLUTANT NAME	THROUGHPUT CAPACITY
BOILER, PROCESS, 2		240.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N OTHER TEST: N
OTHER METHOD:

SO2	CAPITAL COSTS:	$	0	
	O & M COSTS:	$	0	COSTS ARE IN DOLLARS.
	ANNUALIZED COSTS:	$	0	COSTS ARE NOT VERIFIED BY AGENCY.
	COST EFFECTIVENESS ($/TON):		0	
NOX	CAPITAL COSTS:	$	0	
	O & M COSTS:	$	0	COSTS ARE IN DOLLARS.
	ANNUALIZED COSTS:	$	0	COSTS ARE NOT VERIFIED BY AGENCY.
	COST EFFECTIVENESS ($/TON):		0	

Statistical Ranking Report

REPORT DATE: 03/01/1998 RANKING BY STANDARD EMISSION LIMIT PAGE 1

Process Type: 11.004 Multiple Fuels Combustion

Pollutant: NOX
Standard Unit: LB/MMBTU

Processes/Pollutants Meeting Criteria: 36
Processes/Pollutants Not Included: (see Note) 11

Average for Processes/Pollutants: 0.1759
Minimum for Processes/Pollutants: 0.0500
Maximum for Processes/Pollutants: 0.6000

RBLCID	Permit Date	Facility / Process	Emission Limit
WI-0065	01/12/1993	APPLETON PAPER, INC. BOILER, NATURAL GAS FUEL	0.0500
WA-0109	11/04/1992*	BOEING AEROSPACE (PLT 2) BOILER, STEAM (2) - AIRPLANE MANUFACTURING	0.0900
WA-0272	09/06/1991	BOEING DEFENSE & SPACE GROUP - PLANT II BOILERS (2)	0.0900
WA-0050	04/02/1992	BOEING COMMERCIAL AIRPLANE-FREDERKSN BOILERS (2)	0.1000
WA-0061	06/18/1992	SOUND REFINING INC. (DIV. OF CRYSEN) BOILER	0.1000
WA-0099	01/25/1990	U.S ARMY FORT LEWIS (MADIGAN ARMY MEDICAL CENTER) BOILER, FIRETUBE STEAM (HP-1)	0.1000
WA-0099	01/25/1990	U.S ARMY FORT LEWIS (MADIGAN ARMY MEDICAL CENTER) BOILER, FIRETUBE STEAM (HP-2,3) TWO-EACH 16.7 MMBH	0.1000
WA-0102	11/09/1990	BOEING COMMERCIAL AIRPLANES (AUBURN) BOILER, GAS-FIRED (WITH OIL STANDBY)	0.1000
WA-0265	05/07/1991	SOUND REFINING INC. (DIV. OF CRYSEN) BOILER	0.1000
WA-0266	05/16/1991	BOEING COMMERCIAL AIRPLANE (SDC) BOILER, STEAM	0.1000
WA-0268	10/17/1991	BOEING COMMERCIAL AIRPLANE - FREDERICKSON BOILERS (2)	0.1000
VA-0190	10/30/1992	BEAR ISLAND PAPER COMPANY, L.P. BOILER, PACKAGE, NO. 2 FUEL OIL	0.1000

RBLCID	Permit Date	Facility / Process	Emission Limit
WI-0065	01/12/1993	APPLETON PAPER, INC. BOILER, NO. 2 OIL FUEL	0.1000
VA-0189	09/25/1992	GORDONSVILLE ENERGY L.P. BOILER, AUXILIARY	0.1120
VA-0189	09/25/1992	GORDONSVILLE ENERGY L.P. BOILER, AUXILIARY	0.1670
WA-0050	04/02/1992	BOEING COMMERCIAL AIRPLANE-FREDERKSN BOILERS (2)	0.2000
WA-0265	05/07/1991	SOUND REFINING INC. (DIV. OF CRYSEN) BOILER	0.2000
WA-0266	05/16/1991	BOEING COMMERCIAL AIRPLANE (SDC) BOILER, STEAM	0.2000
WA-0268	10/17/1991	BOEING COMMERCIAL AIRPLANE - FREDERICKSON BOILERS (2)	0.2000
FL-0060	03/28/1991	APPLIED ENERGY SERV & SEMINOLE KRAFT CORP. BOILER, 3 EACH	0.2900
WA-0099	01/25/1990	U.S ARMY FORT LEWIS (MADIGAN ARMY MEDICAL CENTER) BOILER, FIRETUBE STEAM (HP-1)	0.3000
WA-0099	01/25/1990	U.S ARMY FORT LEWIS (MADIGAN ARMY MEDICAL CENTER) BOILER, FIRETUBE STEAM (HP-2,3) TWO-EACH 16.7 MMBH	0.3000
WA-0109	11/04/1992*	BOEING AEROSPACE (PLT 2) BOILER, STEAM (2) - AIRPLANE MANUFACTURING	0.3000
WA-0272	09/06/1991	BOEING DEFENSE & SPACE GROUP - PLANT II BOILERS (2)	0.3000
WA-0226	09/25/1984	U.S. NAVY, PUGET SOUND NAVAL SHIPYARD BOILERS (3)	0.6000

Note: Standard emission limits that are zero (i.e., value is missing) are not included in statistics or report above. Refer to Exception report on next page.

* Indicates date initially inserted into RBLC database.

Process Type: 11.004 Multiple Fuels Combustion

Pollutant: NOX

RBLCID	Permit Date	Facility / Process	Primary Emission Limit/Unit
WA-0052	04/16/1992	OCCIDENTAL CHEMICAL CORPORATION BOILER	N/a
WA-0224	02/06/1985	U.S. OIL & REFINING COMPANY BOILER, FUEL-FIRED	N/a
VA-0190	10/30/1992	BEAR ISLAND PAPER COMPANY, L.P. BOILER, CIRCULATING FLUIDIZED COMBUSTION	103.5000 LB/HR
VA-0197	02/22/1993	VIRGINIA COMMONWEALTH UNIVERSITY BOILER, UTILITY, NATURAL GAS & #6 FUEL OIL (3)	145.0000 LB/HR
VA-0190	10/30/1992	BEAR ISLAND PAPER COMPANY, L.P. BOILER, B & W	189.0000 LB/HR
IN-0042	09/09/1991	GENERAL MOTORS TRUCK AND BUS GROUP BOILER, NO. 2 OIL/NATURAL GAS-FIRED	0.0980 LB/HR (GAS)
VA-0190	10/30/1992	BEAR ISLAND PAPER COMPANY, L.P. BOILER, PACKAGE, NATURAL GAS FUEL	0.1000 LB/MMBTU
NY-0046	06/08/1993*	SARANAC ENERGY COMPANY BOILER, AUXILIARY (GAS OR LPG)	0.1360 LB/MMBTU
FL-0047	01/09/1990	SEMINOLE KRAFT CORPORATION BOILER, 1 EACH	75.0000 PPMVD AT 8~
VA-0190	10/30/1992	BEAR ISLAND PAPER COMPANY, L.P. BOILER, PACKAGE (TOTAL)	35.3000 TPY
WA-0272	09/06/1991	BOEING DEFENSE & SPACE GROUP - PLANT II BOILERS (2)	40.0000 TPY

Note: * Indicates date initially inserted into RBLC database.

~ Units have been truncated. See RBLC database.

Freeform Data

REPORT DATE: 03/01/1998 CONTROL TECHNOLOGY DETERMINATIONS (FREEFORM) PAGE 1

RBLC ID : TX-0223
SUFFIX :
*COMPANY : HOCKLEY RAILCAR, INC.
ADDRESS :
CITY : HOCKLEY
COUNTY : HARRIS
STATE : TX
ZIP CODE : 77546
EPA REGION : 6
AGENCY CODE : TX001
AGENCY NAME : TEXAS AIR CONTROL BOARD
CONTACT : DAVID L. HOWELL
PHONE : (512)-451-5711
*PERMIT/FILE # : C-19134
*SIC : 3743
AIRS ID :
APPLICATION RECEIVED DATE : 01/01/1987 (Actual)
*PERMIT ISSUANCE DATE : 02/16/1990 (Actual)
START UP DATE : 01/01/1993 (Actual)
COMPLIANCE VALIDATION DATE: 04/15/1993 (Estimated)
ENTRY DATE : 05/31/1991
LAST UPDATE : 05/21/1991
NOTES :

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* PROCESS : PAINT BOOTHS, 2
* PROCESS TYPE : 41.013
* SCC CODE : 4-02-025-01
PRIMARY FUEL :
THROUGHPUT : 0
THROUGHPUT UNIT :
COMPLIANCE VERIFIED : N
STACK TESTING : N
INSPECTIONS : N
CALCULATIONS : N
OTHER TESTING : N
OTHER TESTING METHOD :
PROCESS/COMPLIANCE NOTES:

* POLLUTANT : VOC
* CAS NUMBER :
* CONTROL METHOD CODE : A
* CONTROL METHOD DESCRIPTION :
ACTIVATED CARBON BED, 2
NUMBER OF OPTIONS CONSIDERED : 0
RANK OF OPTION SELECTED : 0
PRIMARY EMISSIONS : 16.8
PRIMARY EMISSIONS UNIT : T/YR
* BASIS : BACT
* PERCENT EFFICIENCY : 85
ALTERNATE EMISSION : 0
ALTERNATE EMISSION UNIT :
STANDARD EMISSION : 0
STANDARD EMISSION UNIT :
* EMISSION TYPE : P
CAP COST OF CONTROL EQUIPMENT : 0
O/M COST OF CONTROL EQUIPMENT : 0
ANNUALIZED COST : 0
COST EFFECTIVENESS : 0
COST VERIFIED BY AGENCY : N
DOLLAR YEAR USED IN COST ESTIMATES :

* PROCESS : REGENERATION, CARBON
* PROCESS TYPE : 69.015
* SCC CODE : 3-01-005-01
PRIMARY FUEL :
THROUGHPUT : 0
THROUGHPUT UNIT :
COMPLIANCE VERIFIED : N
STACK TESTING : N
INSPECTIONS : N
CALCULATIONS : N
OTHER TESTING : N
OTHER TESTING METHOD :
PROCESS/COMPLIANCE NOTES:

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*      POLLUTANT                    : VOC
*      CAS NUMBER                   :
*      CONTROL METHOD CODE          : A
*      CONTROL METHOD DESCRIPTION   :
          BOILER
       NUMBER OF OPTIONS CONSIDERED :      0
       RANK OF OPTION SELECTED      :      0
       PRIMARY EMISSIONS            :      1.3
       PRIMARY EMISSIONS UNIT       : T/YR
*      BASIS                        : BACT
*      PERCENT EFFICIENCY           :      0
       ALTERNATE EMISSION           :      0
       ALTERNATE EMISSION UNIT      :
       STANDARD EMISSION            :      0
       STANDARD EMISSION UNIT       :
*      EMISSION TYPE                : P
       CAP COST OF CONTROL EQUIPMENT :     0
       O/M COST OF CONTROL EQUIPMENT :     0
       ANNUALIZED COST              :      0
       COST EFFECTIVENESS           :      0
       COST VERIFIED BY AGENCY      : N
       DOLLAR YEAR USED IN COST ESTIMATES :

*    PROCESS           : BLASTER, SAND, 2
*    PROCESS TYPE      :      99.001
*    SCC CODE          : 3-09-002-02
     PRIMARY FUEL      :
     THROUGHPUT        :      0
     THROUGHPUT UNIT   :
     COMPLIANCE VERIFIED  : N
     STACK TESTING     : N
     INSPECTIONS       : N
     CALCULATIONS      : N
     OTHER TESTING     : N
     OTHER TESTING METHOD :
     PROCESS/COMPLIANCE NOTES:

*      POLLUTANT                    : PM
*      CAS NUMBER                   :
*      CONTROL METHOD CODE          : A
*      CONTROL METHOD DESCRIPTION   :
          CARTRIDGE FILTER
       NUMBER OF OPTIONS CONSIDERED :      0
       RANK OF OPTION SELECTED      :      0
       PRIMARY EMISSIONS            :      1.31
       PRIMARY EMISSIONS UNIT       : T/YR
*      BASIS                        : BACT
*      PERCENT EFFICIENCY           :      95
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ALTERNATE EMISSION : 0
ALTERNATE EMISSION UNIT :
STANDARD EMISSION : 0
STANDARD EMISSION UNIT :
* EMISSION TYPE : P
CAP COST OF CONTROL EQUIPMENT : 0
O/M COST OF CONTROL EQUIPMENT : 0
ANNUALIZED COST : 0
COST EFFECTIVENESS : 0
COST VERIFIED BY AGENCY : N
DOLLAR YEAR USED IN COST ESTIMATES :

* PROCESS : FUGITIVE SOURCES
* PROCESS TYPE : 29.999
PRIMARY FUEL :
* SCC CODE : 4-01-999-99
THROUGHPUT : 0
THROUGHPUT UNIT :
COMPLIANCE VERIFIED : N
STACK TESTING : N
INSPECTIONS : N
CALCULATIONS : N
OTHER TESTING : N
OTHER TESTING METHOD :
PROCESS/COMPLIANCE NOTES:

* POLLUTANT : VOC
* CAS NUMBER :
* CONTROL METHOD CODE : N
* CONTROL METHOD DESCRIPTION :

NUMBER OF OPTIONS CONSIDERED : 0
RANK OF OPTION SELECTED : 0
PRIMARY EMISSIONS : 2.75
PRIMARY EMISSIONS UNIT : T/YR
* BASIS : BACT
* PERCENT EFFICIENCY : 0
ALTERNATE EMISSION : 0
ALTERNATE EMISSION UNIT :
STANDARD EMISSION : 0
STANDARD EMISSION UNIT :
* EMISSION TYPE : F
CAP COST OF CONTROL EQUIPMENT : 0
O/M COST OF CONTROL EQUIPMENT : 0
ANNUALIZED COST : 0
COST EFFECTIVENESS : 0
COST VERIFIED BY AGENCY : N
DOLLAR YEAR USED IN COST ESTIMATES :

Lotus/dBase data base structure

Field	Field Name	Type	Width	Dec
1	RBLCID	Character	7	
2	SUFFIX	Character	2	
3	FACILITY	Character	50	
4	CITY	Character	30	
5	STATE	Character	2	
6	REGION	Numeric	2	
7	PERMITNUM	Character	30	
8	AGCYNAME	Character	40	
9	CONTACT	Character	20	
10	PHONE	Character	14	
11	AIRSID	Character	20	
12	SIC	Character	10	
13	PERMITDATE	Date	8	
14	PERMITEA	Character	3	
15	LASTUPDATE	Date	8	
16	PROCESS	Character	50	
17	PROCTYPE	Numeric	6	3
18	THRUPUT	Numeric	13	2
19	THRUPUTUNT	Character	20	
20	COMPVERIFY	Logical	1	
21	SCC	Character	20	
22	POLLUTANT	Character	20	
23	CAS	Character	10	
24	PRIMEMISS	Numeric	13	4
25	PRIMEUNIT	Character	20	
26	CONTROLCOD	Character	1	
27	CTRLDESC	Character	150	
28	PCTEFFIC	Numeric	7	3
29	COSTEFFECT	Numeric	10	
30	DOLLARYEAR	Character	4	
31	BASIS	Character	12	

Appendix G

REPORT DATE: 03/01/1998 REGULATIONS BY PROCESS TYPE CODE PAGE G-1

AFFECTED FACILITY	RULE ID	EFFECTIVE DATE	AGENCY	NAME OF CONTACT	TELEPHONE
PROCESS TYPE: 41.001 Aerospace Surface Coating					
AEROSPACE MANUFACTURING AND REWORK	RUS-0109	/ /	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
PROCESS TYPE: 41.009 Magnetic Tape Surface Coating					
MAGNETIC TAPE MANUFACTURING	RUS-0099	12/15/1994	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
PROCESS TYPE: 41.024 Ship Building & Repair Surface Coating					
SHIP BUILDING AND SHIP REPAIR	RUS-0110	/ /	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
PROCESS TYPE: 41.025 Wood Products/Furniture Surface Coating (except 41.006)					
WOOD FURNITURE MANUFACTURING	RUS-0111	/ /	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
PROCESS TYPE: 42.002 Gasoline Bulk Terminals					
GASOLINE DISTRIBUTION (STAGE I) FACILITI	RUS-0094	12/14/1994	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
MARINE VESSEL LOADING AND UNLOADING OPER	RUS-0106	/ /	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
PROCESS TYPE: 49.002 Dry Cleaning - PERC/Chlorinated Solvents					
DRY CLEANING FACILITIES, PERCHLOROETHYLE	RUS-0089	12/09/1991	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800

AFFECTED FACILITY	RULE ID	EFFECTIVE DATE	AGENCY	NAME OF CONTACT	TELEPHONE
PROCESS TYPE: 49.006 Halogenated Solvent Cleaners					
HALOGENATED SOLVENT CLEANING	RUS-0101	12/02/1994	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
PROCESS TYPE: 50.007 Petroleum Refining Equipment Leaks/Fugitive Emissions					
PETROLEUM REFINERIES	RUS-0107	/ /	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800
PROCESS TYPE: 50.009 Petroleum Refining Wastewater and Wastewater Treatment					
PETROLEUM REFINERIES	RUS-0107	/ /	U.S. EPA	CLEAN AIR TECHNOLOGY	(919) 541-0800

Appendix H (next two pages)

AFFECTED FACILITY: HALOGENATED SOLVENT CLEANING JURISDICTION: FEDERAL
SIC: 359, 254 *

RULE NUMBER: 40 CFR PART 63 SUBPART T BASIS: MACT DATE RULE EFFECTIVE-- 12/02/1994
RULE STATUS: IN EFFECT
REGULATION MADE BY: U.S. EPA CONTROL TECHNOLOGY CENTER (919) 541-0800
(AGENCY) (AGENCY CONTACT) (PHONE)

SCHEDULING INFORMATION

	DATE		DATE	LEGAL REF.
TECH. SUPPORT DOC.	11/01/1993	RULE PROPOSED	11/29/1993	58 FR 62566
ECONOMIC ANALYSIS	11/01/1993	PROMULGATION	12/02/1994	59 FR 61801
RISK ANALYSIS	/ /	RULE EFFECTIVE	12/02/1994	59 FR 61801
PUBLIC NOTICE	11/29/1993	PUBLIC HEARING?	N	

CAAA BBS FILE INFORMATION:
HSCRULE.ZIP IN RECENTLY SIGNED RULES. SEE ALSO TITLE III/POLICY SECTION.

BACKGROUND INFORMATION DOC. NUMBER: EPA-453/R-93-054, /R-94-071
TITLE: SEE NOTES

NOTES: ADDITIONAL SIC - 259. AFFECTS 39 SIC CODES; SEE RULE.
BIDS: NESHAP, HALOGENATED SOLVENT CLEANING - BACKGROUND INFORMATION FOR PROPOSED & FINAL STANDARDS. EPA-453/R-93-058: ECON. IMPACT ANALYSIS
REGULATES EMISSIONS OF THE FOLLOWING HALOGENATED HAP SOLVENTS:
METHYLENE CHLORIDE (MC), CAS NUMBER 75-09-2
PERCHLOROETHYLENE (PCE), CAS NUMBER 127-18-4
TRICHLOROETHYLENE (TCE), CAS NUMBER 79-01-6
1,1,1-TRICHLOROETHANE (TCA), CAS NUMBER 71-55-6
CARBON TETRACHLORIDE (CT), CAS NUMBER 56-23-5
CHLOROFORM, CAS NUMBER 67-66-3

PROCESSES SUBJECT TO THIS REGULATION	THROUGHPUT CAPACITY	POLLUTANT/EMISSION LIMITS/CONTROL & PREVENTION METHODS/COSTS
BATCH COLD CLEANING MACHINE		
PROCESS CODE 49.006 SCC CODE 4-01-002	POLLUTANT: HAP	CAS NO. SEE NOTES EMIS.TYPE: FUGITIVE
	PRIMARY LIMIT:	SEE CONTROLS/P2
	CTRL EQ/POLLUTION PREVENTION (P2):	TIGHTLY FITTING COVER, WATER LAYER WORK PRACTICE STANDARDS
	COST DATA:	NONE PROVIDED.
BATCH VAPOR CLEANING MACHINE	<= 1.21 M2	
PROCESS CODE 49.006 SCC CODE 4-01-002	PROCESS NOTES:	CAPACITY REFERS TO INTERFACE AREA. SEE SECTION 63.463 TABLE 1 FOR LIST OF CONTROL COMBINATIONS. THIRD ALTERNATIVE LIMIT: 150 KG/M2/MO, 3 MONTH ROLLING AVERAGE. COSTS FOR EXISTING SMALL MODEL DEGREASER USING METHYLENE CHLORIDE.
	POLLUTANT: HAP	CAS NO. SEE NOTES EMIS.TYPE: FUGITIVE
	PRIMARY LIMIT: ALTERNATE LIMIT:	SEE CONTROLS/P2 0.22 KG/HR/M2 IDLING
	CTRL EQ/POLLUTION PREVENTION (P2):	WORKING-MODE COVER; FREEBOARD REFRIG; OTHER AUTOMATED PARTS HANDLING SYSTEM AND WORK PRACTICE STANDARDS
	COST DATA:	IN 1992 DOLLARS ($1000) CAPITAL COSTS: $ 0.00 O & M COSTS: $ 0.00 ANNUALIZED COSTS: $ 1.93 COST EFFECTIVENESS ($/TON): 0.00

Freeform Data

RULE ID : RUS-0101
*AFFECTED FACILITY : HALOGENATED SOLVENT CLEANING
*SIC : 359, 254 *
STATE : US
EPA REGION : ALL
AGENCY CODE : OT002
AGENCY NAME : U.S. EPA
CONTACT : CONTROL TECHNOLOGY CENTER
PHONE : (919) 541-0800
*REGULATION # : 40 CFR PART 63 SUBPART T
STATUS : IN EFFECT
TECHNICAL SUPPORT DOC. : 11/01/1993
ECONOMIC IMPACT ANALYSIS : 11/01/1993
RISK ANALYSIS : / /
PUBLIC NOTICE : 11/29/1993
PUBLIC HEARING : N
REGULATION PROPOSED : 11/29/1993
PROPOSED PUBLICATION # : 58 FR 62566
REGULATION PROMULGATED : 12/02/1994
PROMULGATED PUBLICATION # : 59 FR 61801
*REGULATION EFFECTIVE : 12/02/1994
EFFECTIVE PUBLICATION # : 59 FR 61801
ENTRY DATE : 12/29/1994
LAST UPDATE : 02/03/1995
BACKGROUND INFORMATION DOCUMENT
NUMBER : EPA-453/R-93-054, /R-94-071
TITLE : SEE NOTES
NOTES
ADDITIONAL SIC - 259. AFFECTS 39 SIC CODES; SEE RULE.
BIDS: NESHAP, HALOGENATED SOLVENT CLEANING - BACKGROUND INFORMATION FOR PROPOSED & FINAL STANDARDS. EPA-453/R-93-058: ECON. IMPACT ANALYSIS
REGULATES EMISSIONS OF THE FOLLOWING HALOGENATED HAP SOLVENTS:
METHYLENE CHLORIDE (MC), CAS NUMBER 75-09-2
PERCHLOROETHYLENE (PCE), CAS NUMBER 127-18-4
TRICHLOROETHYLENE (TCE), CAS NUMBER 79-01-6
1,1,1-TRICHLOROETHANE (TCA), CAS NUMBER 71-55-6
CARBON TETRACHLORIDE (CT), CAS NUMBER 56-23-5
CHLOROFORM, CAS NUMBER 67-66-3

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*  PROCESS              : BATCH COLD CLEANING MACHINE
*  PROCESS TYPE         : 49.006
*  SCC CODE             : 4-01-002
   THROUGHPUT           :        0
   THROUGHPUT UNIT      :
   PROCESS NOTES


*     POLLUTANT                      : HAP
*     CAS NUMBER                     : SEE NOTES
*     CONTROL EQUIPMENT              : TIGHTLY FITTING COVER, WATER LAYER
*     POLLUTION PREVENTION           : WORK PRACTICE STANDARDS
      PRIMARY EMISSIONS              :        0
      PRIMARY EMISSIONS UNIT         : SEE CONTROLS/P2
*     BASIS                          : MACT
*     PERCENT EFFICIENCY             :        0
      ALTERNATE EMISSION             :        0
      ALTERNATE EMISSION UNIT        :
*     EMISSION TYPE                  : F
      CAP COST OF CONTROL EQUIP.  $1000 :        0
      O/M COST OF CONTROL EQUIP.  $1000 :        0
      ANNUALIZED COST             $1000 :        0
      COST EFFECTIVENESS ($/TON)        :        0
      DOLLAR YEAR USED IN COST ESTIMATES :

*  PROCESS              : BATCH VAPOR CLEANING MACHINE
*  PROCESS TYPE         : 49.006
*  SCC CODE             : 4-01-002
   THROUGHPUT           :        0
   THROUGHPUT UNIT      : <= 1.21 M2
   PROCESS NOTES
    CAPACITY REFERS TO INTERFACE AREA. SEE SECTION 63.463 TABLE 1 FOR LIST
    OF CONTROL COMBINATIONS.  THIRD ALTERNATIVE LIMIT: 150 KG/M2/MO,
    3 MONTH ROLLING AVERAGE.
    COSTS FOR EXISTING SMALL MODEL DEGREASER USING METHYLENE CHLORIDE.

*     POLLUTANT                      : HAP
*     CAS NUMBER                     : SEE NOTES
*     CONTROL EQUIPMENT              : WORKING-MODE COVER; FREEBOARD
                                   REFRIG; OTHER
*     POLLUTION PREVENTION           : AUTOMATED PARTS HANDLING SYSTEM
                                   AND WORK PRACTICE STANDARDS
      PRIMARY EMISSIONS              :        0
      PRIMARY EMISSIONS UNIT         : SEE CONTROLS/P2
*     BASIS                          : MACT
*     PERCENT EFFICIENCY             :        0
      ALTERNATE EMISSION             :        0.22
      ALTERNATE EMISSION UNIT        : KG/HR/M2 IDLING
*     EMISSION TYPE                  : F
      CAP COST OF CONTROL EQUIP.  $1000 :        0
      O/M COST OF CONTROL EQUIP.  $1000 :        0
      ANNUALIZED COST             $1000 :        1.93
      COST EFFECTIVENESS ($/TON)        :        0
      DOLLAR YEAR USED IN COST ESTIMATES : 1992
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* PROCESS : BATCH VAPOR CLEANING MACHINE
* PROCESS TYPE : 49.006
* SCC CODE : 4-01-002
THROUGHPUT : 0
THROUGHPUT UNIT : > 1.21 M2
PROCESS NOTES
CAPACITY REFERS TO INTERFACE AREA. SEE SECTION 63.463 TABLE 2 FOR LIST OF CONTROL COMBINATIONS. THIRD ALTERNATIVE LIMIT: 150 KG/M2/MO, 3 MONTH ROLLING AVERAGE.

* POLLUTANT : HAP
* CAS NUMBER : SEE NOTES
* CONTROL EQUIPMENT : FREEBOARD REFRIG. DEVICE; SUPERHEATED VAPOR; OTHER
* POLLUTION PREVENTION : AUTOMATED PARTS HANDLING SYSTEM AND WORK PRACTICE STANDARDS
PRIMARY EMISSIONS : 0
PRIMARY EMISSIONS UNIT : SEE CONTROLS/P2
* BASIS : MACT
* PERCENT EFFICIENCY : 0
ALTERNATE EMISSION : 0.22
ALTERNATE EMISSION UNIT : KG/HR/M2 IDLING
* EMISSION TYPE : F
CAP COST OF CONTROL EQUIP. $1000 : 0
O/M COST OF CONTROL EQUIP. $1000 : 0
ANNUALIZED COST $1000 : 0
COST EFFECTIVENESS ($/TON) : 0
DOLLAR YEAR USED IN COST ESTIMATES :

* PROCESS : IN-LINE CLEANING MACHINE, EXISTING
* PROCESS TYPE : 49.006
* SCC CODE : 4-01-002
THROUGHPUT : 0
THROUGHPUT UNIT :
PROCESS NOTES
SEE SECTION 63.463 TABLE 3 FOR LIST OF CONTROL COMBINATIONS. THIRD ALTERNATIVE LIMIT: 153 KG/M2/MO, 3 MONTH ROLLING AVERAGE.

* POLLUTANT : HAP
* CAS NUMBER : SEE NOTES
* CONTROL EQUIPMENT : DWELL AND FREEBOARD REFRIG. DEVICE; OTHERS
* POLLUTION PREVENTION : AUTOMATED PARTS HANDLING SYSTEM AND WORK PRACTICE STANDARDS
PRIMARY EMISSIONS : 0
PRIMARY EMISSIONS UNIT : SEE CONTROLS/P2
* BASIS : MACT
* PERCENT EFFICIENCY : 0

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        ALTERNATE EMISSION              :        0.1
        ALTERNATE EMISSION UNIT         : KG/HR/M2 IDLING
*       EMISSION TYPE                   : F
        CAP COST OF CONTROL EQUIP.  $1000 :        0
        O/M COST OF CONTROL EQUIP.  $1000 :        0
        ANNUALIZED COST             $1000 :        0
        COST EFFECTIVENESS ($/TON)        :        0
        DOLLAR YEAR USED IN COST ESTIMATES :

*   PROCESS            : IN-LINE CLEANING MACHINE, NEW
*   PROCESS TYPE       : 49.006
*   SCC CODE           : 4-01-002
    THROUGHPUT         :        0
    THROUGHPUT UNIT    :
    PROCESS NOTES
      SEE SECTION 63.463 TABLE 4 FOR LIST OF CONTROL COMBINATIONS.  THIRD
      ALTERNATIVE LIMIT: 99 KG/M2/MO, 3 MONTH ROLLING AVERAGE.

*       POLLUTANT                       : HAP
*       CAS NUMBER                      : SEE NOTES
*       CONTROL EQUIPMENT               : SUPERHEATED VAPOR & FREEBOARD
                                          REFRIG. DEVICE
*       POLLUTION PREVENTION            : AUTOMATED PARTS HANDLING SYSTEM
                                          AND WORK PRACTICE STANDARDS
        PRIMARY EMISSIONS               :        0
        PRIMARY EMISSIONS UNIT          : SEE CONTROLS/P2
*       BASIS                           : MACT
*       PERCENT EFFICIENCY              :        0
        ALTERNATE EMISSION              :        0.1
        ALTERNATE EMISSION UNIT         : KG/HR/M2 IDLING
*       EMISSION TYPE                   : F
        CAP COST OF CONTROL EQUIP.  $1000 :        0
        O/M COST OF CONTROL EQUIP.  $1000 :        0
        ANNUALIZED COST             $1000 :        0
        COST EFFECTIVENESS ($/TON)        :        0
        DOLLAR YEAR USED IN COST ESTIMATES :
```

Lotus/dBase data base structure

Field	Field Name	Type	Width	Dec
1	RULID	Character	8	
2	FACILITY	Character	50	
3	STATE	Character	2	
4	REGION	Numeric	2	
5	RULENUMBER	Character	30	
6	AGCYNAME	Character	40	
7	CONTACT	Character	20	
8	PHONE	Character	14	
9	SIC	Character	10	
10	DRAFTACT	Date	8	
11	PROMULGACT	Date	8	
12	RULEFFDATE	Date	8	
13	LASTUPDATE	Date	8	
14	PROCESS	Character	50	
15	PROCTYPE	Numeric	6	3
16	THRUPUT	Numeric	13	2
17	THRUPUTUNT	Character	20	
18	SCC	Character	20	
19	POLLUTANT	Character	20	
20	CAS	Character	10	
21	PRIMEMISS	Numeric	13	4
22	PRIMEUNIT	Character	20	
23	ALTEMISS	Numeric	13	4
24	ALTUNIT	Character	20	
25	EQUIPMENT	Character	50	
26	PROCMODIF	Character	50	
27	PROCMOD2	Character	50	
28	PCTEFFIC	Numeric	7	3
29	COSTEFFECT	Numeric	10	2
30	DOLLARYEAR	Character	4	
31	BASIS	Character	12	
32	EMISSTYPE	Character	1	