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Research Triangle Park, NC 27711

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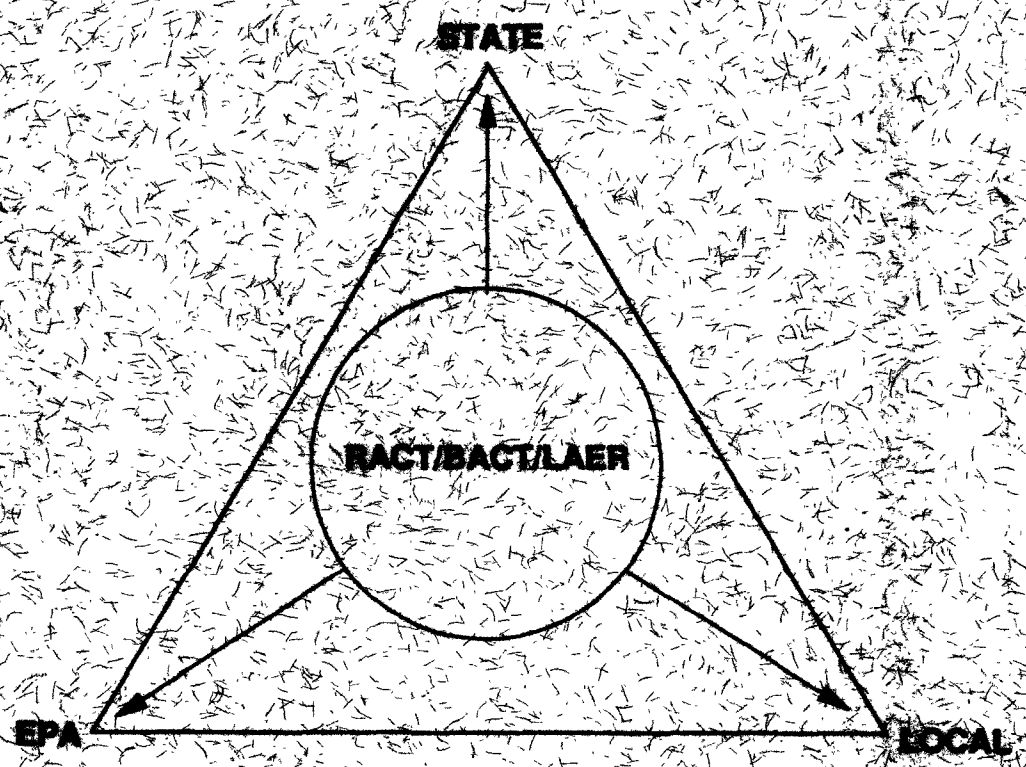
Air

/BACT/LAER CLEARINGHOUSE INFORMATION SYSTEM (BLIS)

USER'S MANUAL



Developed as Part of a Joint Effort
Between The U.S. Environmental Protection Agency
and State and Local Air Pollution Control Agencies

EPA 453/B-92-012

USER'S MANUAL FOR THE BLIS BBS

CONTROL TECHNOLOGY CENTER

SPONSORED BY:

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

Air and Energy Engineering Research Laboratory
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Research Triangle Park, North Carolina 27711

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USER'S MANUAL FOR THE BLIS BBS

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DISCLAIMER

This user's manual was prepared for the Control Technology Center, U.S. Environmental Protection Agency, by ViGYAN Inc., 5203 Leesburg Pike, Suite 900, Falls Church, VA 22041-3406, in partial fulfillment of Contract No. 68-D0-0177, Work Assignment W14-2. Any reference to a particular software product is not intended as an endorsement of that product.

PREFACE

This user's manual was prepared for and funded by the RACT/BACT/LAER Clearinghouse (RBLC), 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. This user's manual coincides with the inclusion of the RACT/BACT/LAER Information System (BLIS) in the EPA Office of Air Quality Planning and Standards (OAQPS) Technology Transfer Network.

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Part 1 -- Introduction

Welcome to the BACT/LAER Information System (BLIS)! BLIS is a product of the RACT/BACT/LAER Clearinghouse (RBLC). 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 the purpose and function of BLIS.

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.

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 Information System (BLIS) was created. BLIS is a data base system that 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 more 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 BLIS Bulletin Board System

From 1986 to 1992, BLIS 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 BLIS. After reviewing various options, (including mainframe, PC-based bulletin board, and hybrid options) EPA chose to move BLIS to a PC-based bulletin board system (BBS). Since October 1992, BLIS has been part of the Technology Transfer Network. The BLIS BBS uses "tbbs" for its bulletin board software and "tdbs" for its data base software. The system is written primarily in "tdbs" or a dBase-based language.

BLIS Features

Coinciding with the move of BLIS to a BBS is an upgrade of BLIS. The BLIS 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 BLIS user. Users of the advanced search can design a search, recall and reselect subsets, and edit the search criteria on one screen.

Users of BLIS 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 BLIS 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 no longer have to scroll through the entire set of selected determinations.

The third noticeable BLIS feature is the User Edit and Update. Before development of the BLIS BBS, only EPA Headquarters staff could add RACT, BACT, or LAER determinations to BLIS. With the BLIS 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 BLIS password in order to take advantage of this feature.

These features, as well as other features planned for future development, are all explained in this manual. The manual is organized in a three-ring binder to allow for easy addition of information as new features are developed.

Gaining Access to BLIS

To access the BLIS BBS you will need a PC, a modem and phone line, and communications software. Additionally, you will need to register for the TTN. In order to register for the TTN, follow these steps:

- Call (919) 541-5742 at 1200, 2400, or 9600 baud.
- Set communication parameters to 8 data bits, a parity of N, and 1 stop bit.
- 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 a BLIS password. To receive a BLIS password, call EPA at (919) 541-2736; the EPA staff person will assign you a BLIS password as well as your security clearance for inputting determinations.

USER'S MANUAL FOR THE BLIS BBS

Part 2 -- Information in BLIS

The primary product of the RACT/BACT/LAER Clearinghouse is a report of information that has been obtained from RACT, BACT, and LAER determinations made by various pollution control agencies. The report 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, control technology, control agency contacts, and scheduling data.

Organization of BLIS Data

BLIS maintains information on 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 BLIS on each of the three levels (facility, process, and pollutant) is listed below. Together these files make up the primary BLIS data base. See Table 2.1 (beginning p. 2-6) for the format for each field mentioned below.

1. Facility Information

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

- BLIS ID: The unique identification number assigned to each BLIS 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.

- STATUS OF THE FACILITY: A one-letter field describing whether the permit is for a new or modified source.

- PERMIT 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 entered in 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 BLIS user to include explanatory information about the determination which he or she enters into BLIS.

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

- DETERMINATION ENTRY/COMPLETE DATE: Date that the determination was first entered into the BLIS permanent data base.

- ADDITIONAL IDs: Other ID numbers which can be found at this level when applicable are the EPA ID, the AIRS ID, and the SIC code.

- SCHEDULING INFORMATION: Permitting scheduling dates stored in BLIS are:

  * date application is received
  * control technology determination complete (estimated and actual)
  * air quality analysis complete (estimated and actual)
  * other impact analysis complete (estimated and actual)
  * draft permit issued (estimated and actual)
  * public notice (estimated and actual)
  * final permit issued (estimated and actual)
  * start construction (estimated and actual)
  * start-up date (estimated and actual)
  * compliance verification (estimated and actual)

  BLIS also includes a logical field with information on whether the permitting agency held a public hearing.

2. Process Information

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

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

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

- THROUGHPUT CAPACITY AND UNITS: For each process listed in a determination, BLIS 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.

- STANDARD BOILER SIZE: This field is used to compare boiler sizes in BLIS. All boiler sizes are converted to MMBTU per hour and entered into this field. A size of 999,999 MMBTU per hour is used if the boiler size could not be converted or is unknown.

- SCC CODE: This code is the standard source classification for processes used throughout the Office of Air and Radiation (OAR) at EPA.

- 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?
    - Other testing?
    - Inspections?
    - Calculations?

  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 BLIS determination pollutant by BLIS. This numeric field is used only by the BLIS staff for tracking purposes and does not appear on-screen.

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

- 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.

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

- BASE-LINE EMISSION RATE AND UNITS: A base-line figure provided by the permit issuing agency. This figure can be used to calculate percent efficiency.

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

  * BACT-PSD -- Prevention of Significant Deterioration
  * BACT-OTHER -- Other BACT (ie. 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 EQUIPMENT: The type of control equipment required to limit pollutant emissions.

- CONTROL EQUIPMENT MANUFACTURER AND MODEL NUMBER: Two fields which provide specific information on the control equipment.

- PROCESS MODIFICATION: Any required process modification or management practice designed to decrease pollutant emissions.

- 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.

- CALCULATED EFFICIENCY: The efficiency of control calculated using the base-line emission rate and the emissions limit.

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

- 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 in BLIS 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

The BLIS Data Bases

The BLIS BBS stores determinations in three separate data bases. The permanent data base contains the last five years' completed BLIS determinations. These determinations have been reviewed by BLIS staff to ensure that the data are complete and correct. The second data base is the transient data base. 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 for BLIS still missing, or determinations which have not been verified for corrections and completion by the BLIS staff. The third data base is the historical data base. The historical data base contains completed BLIS determinations which are more than five years old. Data organization for all three data bases is the same.

Additional data scheduled to be maintained in BLIS are data on Federal and State regulations. BLIS will have a separate data base for this information; this data base will be implemented on-line at a later date.

TABLE 2.1
NAMES AND CHARACTERISTICS OF BLIS DATA FIELDS

FIELD NAME	TYPE OF FIELD	SIZE OF FIELD
FACILITY LEVEL INFORMATION		
Flag	Character	1
Facility number	Numeric	12
Suffix	Character	2
BLIS ID	Character (i.e. AK-0001)	7
Source size	Numeric	13
Source size units	Character	20
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
New or modified source	Character	1
Permit issuance date	Date (XX/XX/XX)	8
Permit number	Character	30
Region file number	Character	20
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
EPA ID	Character	20
SIC code	Character	10
Date of entry to BLIS	Date (XX/XX/XX)	8
Date of last update	Date (XX/XX/XX)	8
Public hearing held	Logical	1
Estimated date of receipt of appl.	Date (XX/XX/XX)	8
Actual date of receipt of appl.	Date (XX/XX/XX)	8
Estimated date of tech. determination	Date (XX/XX/XX)	8
Actual date of tech. determination	Date (XX/XX/XX)	8
Estimated date of air qual. analysis	Date (XX/XX/XX)	8
Actual date of air qual. analysis	Date (XX/XX/XX)	8
Estimated date of other analysis	Date (XX/XX/XX)	8
Actual date of other analysis	Date (XX/XX/XX)	8
Estimated date of draft permit	Date (XX/XX/XX)	8
Actual date of draft permit	Date (XX/XX/XX)	8
Estimated date of public notice	Date (XX/XX/XX)	8

FIELD NAME	TYPE OF FIELD	SIZE OF FIELD
Actual date of public notice	Date (XX/XX/XX)	8
Estimated date of permit issuance	Date (XX/XX/XX)	8
Estimated start date of construction	Date (XX/XX/XX)	8
Actual start date of construction	Date (XX/XX/XX)	8
Estimated start-up date	Date (XX/XX/XX)	8
Actual start-up date	Date (XX/XX/XX)	8
Estimated date of compliance verif.	Date (XX/XX/XX)	8
Actual date of compliance verif.	Date (XX/XX/XX)	8

PROCESS LEVEL INFORMATION

Process number	Numeric	3
Process description	Character	50
Process type code	Numeric	6
Throughput capacity	Numeric	13
Throughput capacity units	Character	20
Boiler size	Numeric	13
Compliance verification	Logical	1
Stack test	Logical	1
Other test	Logical	1
Inspection	Logical	1
Calculated	Logical	1
Other method	Character	20
SCC code	Character	20

POLLUTANT LEVEL INFORMATION

Pollutant number	Numeric	3
Pollutant	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
Base-line emission	Numeric	13
Base-line emission unit	Character	20
Control equipment	Character	50
Control equipment manufacturer	Character	30

FIELD NAME	TYPE OF FIELD	SIZE OF FIELD
Control equipment model number	Character	20
Process modification	Character	50
Design percent efficiency	Numeric	7
Calculated 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

USER'S MANUAL FOR THE BLIS BBS

Part 3 -- Conducting a Search in BLIS

When you enter BLIS you may choose to Query or Edit. This section of the BLIS User's Manual describes the Query option. Upon selection of Query from the Main menu, you must choose which of the BLIS data bases you wish to query. The choices are: the BLIS main data base (permanent), the BLIS transient data base, the BLIS historical data base, and the Federal/State Regulations data base. Please note that all of the data bases may not be available at this time. Throughout BLIS any menu option that is not available will be low-lighted on the screen (you will notice this lowlighting in the manual also). You must remember to press the Enter key after each menu response. Figures 3.1 and 3.2 represent the BLIS Main menu and the data base selection menu, described above.

It is also important to note that BLIS 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.

```
                    RACT/BACT/LAER INFORMATION SYSTEM
BLIS                          DATA BASE MENU                    DATE: 08/28/92

                    <Q>   QUERY DATA BASE

                    <E>   EDIT DATA BASE

                    <X>   EXIT TO BLIS BBS

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

Figure 3.1 - BLIS Main Menu

```
BLIS                        SELECT DATA BASE MENU                    DATE: 08/28/9


                <B>   BLIS DATA BASE

                <T>   BLIS TRANSIENT DATA BASE

                <H>   BLIS HISTORICAL DATA BASE

                <F>   FEDERAL/STATE/LOCAL REGULATIONS DATA BASE

                <X>   EXIT TO BLIS BBS

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

Figure 3.2 - BLIS Data Base Selection Menu

Once a valid data base has been selected for Query, you will proceed to the BLIS Query Menu. Users of BLIS have two options when conducting a search in the BLIS BBS. 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.

The Query Menu (as it appears when the user first enters BLIS) is displayed in Figure 3.3.

```
BLIS                                QUERY MENU                          DATE: 08/28/92
                          Currently Active Subset  : 0

                    <S>   STANDARD SEARCH (CREATE SUBSET)

                    <A>   ADVANCED SEARCH (CREATE SUBSET)

                    <V>   VIEW SUBSET

                    <D>   DOWNLOAD SUBSET

                    <R>   REACTIVATE SUBSET

                    <X>   EXIT TO SELECTION MENU

 Enter  |      Press the appropriate letter to select the option
 Option |             you want or press <F1> for HELP.
 ▒      |
```

Figure 3.3 - BLIS Query Menu

When a search is performed, BLIS 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 BLIS 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.

```
BLIS                STANDARD SEARCH (CREATE SUBSET)          DATE: 08/28/9
        | Currently Active Subset  :1   Criterion Being Selected :1 |

 1  BLIS ID Number      9  EPA ID Number          17  Control Equipment
 2  Facility Name      10  SIC Code                18  Process Change
 3  EPA Region         11  Date Inserted           19  CAS Number
 4  State Code         12  Process Name            20  Estimated % Efficiency
 5  Permit Date (Act.) 13  Process Type Code       21  Calculated % Efficienc
 6  Permit Number      14  SCC Code                22  Emission Type
 7  Agency Code        15  Pollutant Name
 8  AIRS ID Number     16  Basis for Limit

  Enter |          Enter Number of Data Element to Search.
 Option |
   ▒    | E<X>it to QUERY Menu                                  <F1> for HEL
```

Figure 3.4 - Standard Search Menu Screen #1

Following selection of a search field (data element), BLIS 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 (<>). BLIS will validate the operator which you have chosen and then prompt you for a value. BLIS 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 E of the BLIS Users Manual. The Operator Selection Menu and the Values Entry screen are displayed in Figures 3.5 and 3.6.

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 selects "=" as an operator, BLIS 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 BLIS.

```
BLIS                STANDARD SEARCH (CREATE SUBSET)          DATE: 08/28/92
        | Currently Active Subset  :1   Criterion Being Selected :1 |
STATE

 <1>  Contains (Word Search)                <5>  Greater Than or Equal To
 <2>  Equals ("Begins With" for Text)       <6>  Less Than or Equal To
 <3>  Greater Than                          <7>  Not Equal To
 <4>  Less Than

          Any valid operator may be used with any data element.
 Enter  |            Enter Number of Valid Operator.
 Option |
   ▒    | E<X>it to Query Menu                                <F1> for HELP
```

Figure 3.5 - Standard Search Operator Selection Menu

```
BLIS                                                                    DATE: 08/28/
        | Currently Active Subset  :1   Criterion Being Selected :1 |



   Enter the Value (code, date, number or text string) for the search.

                STATE =        TX_________

<Esc> to Abandon and Exit                                          <F1> for HEI
```

Figure 3.6 - Standard Search Value Selection Screen

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 3.7). To add another search criterion, you must select the connector to be used between criterion (see Figure 3.8), and then follow the steps used to develop the first criterion until the criteria list is finished (up to three criteria may be included).

```
BLIS                                                          DATE: 08/28/92
        | Currently Active Subset  :1   Criterion Being Selected :1 |
STATE =  TX



              <A>   Add Another Search Criterion

              <R>   Respecify the Search Criteria

              <S>   Save the Criteria and Perform Search

              <X>   Exit without Saving
 Enter  |     Enter the appropriate letter to continue
 Option |              or stop the search.
   ▒    |                                                   <F1> for HELP
```

Figure 3.7 - Standard Search Supplement Criteria Option Screen

```
BLIS                                                          DATE: 08/28/92
        | Currently Active Subset  :1   Criterion Being Selected :1 |
STATE =  TX



              <A>  AND            (all criteria must be satisfied
                                    for item to be selected)

              <O>  OR             (one selected criterion must
                                    be satisfied for the item
                                    to be selected)

       This connector will be used for all criteria in this subset.
 Enter  | Enter the appropriate letter to connect the criteria.
 Option | <R>eturn to Previous Menu
   ▒    | E<X>it to Query Menu                                <F1> for HELP
```

Figure 3.8 - Standard Search Connector Selection Menu

If you choose to search the data base, BLIS 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 BLIS 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, BLIS will search the data base and present the results of the search. BLIS will present on screen the number of determinations, processes, and pollutants which matched the search criteria list (see Figure 3.8).

```
BLIS                STANDARD SEARCH (CREATE SUBSET)          DATE: 08/28/9
                          Criteria List for Subset : 1

  STATE       =     TX  AND
  PROCESS     $     BOILER




       This subset contains :          50   Facilities,
                                       75   Processes, and
                                      269   Pollutants

  Enter
 Option
   S                 Press any key to continue ...
```

Figure 3.9 - 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 BLIS will delete any existing subsequent subsets (see Figures 3.10 and 3.11).

```
BLIS                        REACTIVATE SUBSET MENU                    DATE: 09/04/92
                          | Currently Active Subset  : 2 |

   <M>    MAIN DATA BASE

   <1>    SUBSET 1 = STATE = TX AND PROCESS $ BOILER

   <2> *  SUBSET 2 = POLLUTANT = NOX

   <3>    SUBSET 3 =

   <X>    EXIT TO QUERY MENU

 Enter  |        Press the appropriate letter to select the option
 Option |              you want or press <F1> for HELP.
   ▒    |
```

Figure 3.10 - Reactivate Subset Menu

```
BLIS                STANDARD SEARCH (REDUCE SUBSET)          DATE: 09/04/

        | Currently Active Subset  :2   Criterion Being Selected :1 |

STATE = TX        AND                    BASIS =  LAER
PROCESS $ BOILER                AND


                <A>   Add Another Search Criterion

                <R>   Respecify the Search Criteria

                <S>   Save the Criteria and Perform Search

                <X>   Exit without Saving

 Enter |          You will lose All subsequent criteria lists
 Option |               and subsets if you continue !!
   S    |          <Esc> to Abandon or <Enter> to Continue.
```

Figure 3.11 - 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 3.12 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 3.12 and 3.13.

```
BLIS  QUERY                    CREATE/REDUCE SUBSET                    DATE: 09/04/92
                              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                                   <Ctrl><R> to Page Up
   C     | E<X>it to QUERY Menu                         <Ctrl><C> to Page Down
```

Figure 3.12 - Advanced Search Create/Reduce Subset Menu

```
BLIS  QUERY                    CREATE CRITERIA LIST                    DATE: 09/04/92
                              Criteria List for Subset : 1

Criterion One                  Criterion Two                  Criterion Three

DATA ELEMENT                   DATA ELEMENT                   DATA ELEMENT
STATE                          PROCESS

OPERATOR                       OPERATOR                       OPERATOR
=                              $

VALUES                         VALUES                         VALUES
TX                             BOILER

CONNECTOR = AND

                        <Ctrl><W> to Save Criteria List

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

Figure 3.13 - Completed criteria list for an Advanced Search

By pressing F1 you can access HELP. The BLIS 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
BLISID	BLIS ID number
LASTUPDATE	Date of last update
FACILITY	Company name
STATE	State
REGION	EPA Region
PERMITDATE	Permit issuance date
PERMITNUM	Permit number
AGENCY	Permitting agency code
AIRSID	AIRS ID
EPAID	EPA ID
SIC	SIC code
PROCESS	Process name
PROCTYPE	Process type code
SCC	SCC code
POLLUTANT	Pollutant
BASIS	Basis for limit
EQUIPMENT	Control equipment
PROCMIDIF	Control process modification
CAS	CAS number
PCTEFFIC	Percent overall efficiency (design)
CALCEFFIC	Calculated percent efficiency
EMISSTYPE	Emissions type

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 3.15 and 3.16). 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.

```
BLIS  QUERY                    CREATE/REDUCE SUBSET                    DATE: 09/04/92
                              Criteria List for Subset : 1

Criterion One                 Criterion Two                 Criterion Three

DATA ELEMENT                  DATA ELEMENT                  DATA ELEMENT
STATE                         PROCESS

OPERATOR                      OPERATOR                      OPERATOR
=                             $

VALUES                        VALUES                        VALUES
TX                            BOILER

CONNECTOR = AND

 Enter  | <C>reate Next List   <S>earch to Create Subset          <F1> HELP
 Option | <E>dit List                                   <Ctrl><R> to Page Up
        | E<X>it to QUERY Menu                         <Ctrl><C> to Page Down
```

Figure 3.14 - Advanced BLIS criteria list

```
BLIS  QUERY                    CREATE CRITERIA LIST                    DATE: 09/04/

                          Criteria List for Subset : 1

Criterion One                  Criterion Two                  Criterion Thre

DATA ELEMENT                   DATA ELEMENT                   DATA ELEMENT
STATE                          PROCESS

OPERATOR                       OPERATOR                       OPERATOR
=                              $

VALUES                         VALUES                         VALUES
TX                             BOILER

CONNECTOR = AND

  Enter   |  Please wait ...
 Option   |  Reducing Master file to create subset ...
   S
```

Figure 3.15 - Advanced Search Screen while conducting a search

```
BLIS  QUERY                    CREATE/REDUCE SUBSET                    DATE: 09/04/9

                          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 3.16 - 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 needs. 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, BLIS 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 BLIS will delete the original subset 3 (see Figure 3.17).

```
BLIS  QUERY                    CREATE/REDUCE SUBSET                    DATE: 09/04/92
                              Criteria List for Subset : 2

Criterion One                  Criterion Two                  Criterion Three

DATA ELEMENT                   DATA ELEMENT                   DATA ELEMENT
POLLUTANT                      POLLUTANT

OPERATOR                       OPERATOR                       OPERATOR
=                              =

VALUES                         VALUES                         VALUES
NOX                            SO2

CONNECTOR = OR

 Enter  |        You will lose All subsequent criteria lists
 Option |              and subsets if you continue !!
   S    |         <Esc> to Abandon or <Enter> to Continue.
```

Figure 3.17 - 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, BLIS presents a list of facilities in the current subset (Figure 3.18). You must choose a facility; a listing of processes for the facility follows. The process list (Figure 3.19) allows you to either view the facility level information (see Figure 3.20), or choose a process. Each process which met the selection criteria will be marked with an '*' in the process listing. If you chooses to view the facility level data, you may then choose to remove this particular facility from your download set (Figures 3.21 and 3.22). If you exercise this option, BLIS 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.

```
BLIS  QUERY                VIEW FACILITY LIST                    DATE: 08/28/9

                           Currently Active Subset  : 1
Record
Number      BLIS 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> HEL
 Option   |                                          <Ctrl><R> to Page U
 1        | E<X>it to QUERY Menu                    <Ctrl><C> to Page Dow
```

Figure 3.18 - Facility Level List

```
BLIS  QUERY                    VIEW PROCESS LIST                    DATE: 08/28/92
                          | 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 3.19 - Process Level List

```
BLIS          Subset: 1      VIEW FACILITY                      DATE: 08/28/92

TX-0008    HOUSTON LIGHTING & POWER
FARRAR, TX                                                            REG:6
COUNTY: LIMESTONE                          ZIP:                    NEW/MOD:N

SOURCE SIZE: 1500 MW                                            ENTERED:03/01/83
 AGENCY: OH006 - HAMILTON CO-SOUTHWESTERN OH APCA               UPDATED:04/01/83
CONTACT: JOHN BUNYAK                                  PHONE: (214)-767-1594
 PERMIT NUMBER:                                         SIC:
REGION FILE NO: PSD-TX-371                            EPA ID:
PUBLIC HEARING: N                                    AIRS ID:
                     Estimated Actual                          Estimated Actual
   APPLICATION RCVD:  /  /     /  /      COMPL VALIDATION:  /  /     /  /
CONTROL TECH DETERM:  /  /     /  /         PUBLIC NOTICE:  /  /     /  /
  AIR QUAL ANALYSIS:  /  /     /  /    START CONSTRUCTION:  /  /     /  /
OTH IMPACT ANALYSIS:  /  /     /  /              START-UP:  /  /     /  /
DRAFT PERMIT ISSUED:  /  /     /  /  FINAL PERMIT ISSUED:  /  /   09/10/81

  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 3.20 - Facility Level Information

```
BLIS          Subset: 1      VIEW FACILITY                    DATE: 08/28/

TX-0008    HOUSTON LIGHTING & POWER
FARRAR, TX                                                          REG:
COUNTY: LIMESTONE                        ZIP:                    NEW/MOD:

SOURCE SIZE: 1500 MW                                            ENTERED:03/01/
 AGENCY: OH006 - HAMILTON CO-SOUTHWESTERN OH APCA               UPDATED:04/01/
CONTACT: JOHN BUNYAK                                  PHONE: (214)-767-1594
 PERMIT NUMBER:                                         SIC:
REGION FILE NO: PSD-TX-371                            EPA ID:
PUBLIC HEARING: N                                    AIRS ID:
                    Estimated Actual                          Estimated Actua
   APPLICATION RCVD:  /  /     /  /      COMPL VALIDATION:  /  /     /  /
CONTROL TECH DETERM:  /  /     /  /         PUBLIC NOTICE:  /  /     /  /
  AIR QUAL ANALYSIS:  /  /     /  /    START CONSTRUCTION:  /  /     /  /
OTH IMPACT ANALYSIS:  /  /     /  /              START-UP:  /  /     /  /
DRAFT PERMIT ISSUED:  /  /     /  /  FINAL PERMIT ISSUED:  /  /   09/10/

  Enter
 Option
   R        *** RECORD HAS BEEN REMOVED FROM DOWNLOAD ***
```

Figure 3.21 - Facility Level Information following removal from download

```
BLIS  QUERY              VIEW FACILITY LIST                    DATE: 08/28/9

                         Currently Active Subset  : 1
Record
Number     BLIS ID.SFX    Facility Name

1          TX-0007        SANDOW STEAM ELECT. STATION
2       R  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> HEL
 Option  |                                              <Ctrl><R> to Page U
   1     | E<X>it to QUERY Menu                        <Ctrl><C> to Page Dow
```

Figure 3.22 - Facility #2 has been removed from download

If you choose a process, BLIS displays a listing of pollutants emitted by the process. This pollutant listing screen (Figure 3.23) gives you the option to view the process level information (see Figure 3.24), or view pollutant level information. Each pollutant which meets the selection criteria is marked with an '*'. If you choose a pollutant, BLIS presents a screen with all pollutant level information (see Figure 3.25).

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

```
BLIS                          VIEW POLLUTANT LIST                DATE: 08/28/92
                            | 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 3.23 - Pollutant Level List

```
BLIS          Subset: 1      VIEW PROCESS                    DATE: 08/28/

TX-0008    HOUSTON LIGHTING & POWER
                                                                  SELECT

PROCESS: BOILER, LIGNITE FIRED, 2 EA
PROCESS TYPE: 11            SCC CODE:

THROUGHPUT:  7863 MMBTU/H
BOILER SIZE: 7863 LB/MMBTU

PERFORMANCE CONFIRMATION:
           COMPLIANCE VERIFIED: N
                 STACK TESTING: N
                   INSPECTIONS: N
                  CALCULATIONS: N
                 OTHER TESTING: N
          OTHER TESTING METHOD:

  Enter | Exit to <F>acility List                          <F1> HEI
 Option | Exit to <P>rocess List                  <Ctrl><R> to Page U
        | E<X>it to Pollutant List                <Ctrl><C> to Page Dow
```

Figure 3.24 - Process Level Information

```
BLIS          Subset: 1      VIEW POLLUTANT                  DATE: 08/28/9

TX-0008    HOUSTON LIGHTING & POWER
PROCESS:   BOILER, LIGNITE FIRED, 2 EA            7863 MMBTU/H
POLLUTANT: PM                      CAS NUMBER:                      SELECTE
   CONTROL EQUIPMENT: ELECTROSTATIC PRECIPITATOR
PROCESS MODIFICATION:
MANUFACTURER:                                  MODEL:
NUMBER OF CONTROL OPTIONS CONSIDERED:  0 RANK OF OPTION SELECTED:  0
EMISSION LIMITS:
      PRIMARY: 0 LB/MMBTU                              BASIS: NSPS
    ALTERNATE: 0                                    % EFFICIENCY: 100
 STANDARDIZED: 0                                 CALCULATED EFFIC: 0
BASE EMISSION: 0                                    EMISSION TYPE:
COST DATA:
    CAP COST OF CONTROL EQUIP: $0             ANNUALIZED COST: $0
    O/M COST OF CONTROL EQUIP: $0          COST EFFECTIVENESS: $0
    COST VERIFIED BY AGENCY: N    DOLLAR YEAR USED IN COST ESTIMATES:

  Enter | Exit to <F>acility List                          <F1> HEL
 Option | Exit to <P>rocess List                  <Ctrl><R> to Page U
        | E<X>it to Pollutant List                <Ctrl><C> to Page Dow
```

Figure 3.25 - Pollutant Level Information

USER'S MANUAL FOR THE BLIS BBS

Part 4 -- Downloading Information to Your PC

BLIS 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 50 determinations at one time.**

BLIS allows you to 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, BLIS ID number and suffix, process code number, date of permit issuance, process name.

- Appendix G: A summary listing, in order of process code, which includes the following information: facility name, year of the compilation in which the determination appears, BLIS 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

- Scheduling report: A detailed listing of the scheduling data stored in BLIS. This data allows pollution control officials to track the progress of RACT, BACT, and LAER determinations.

After you choose the Download Subset option from the Query Menu, BLIS presents you with a list of the available formats for downloading and an option to return to the Query Menu (Figure 4.1). For an example of each downloading format, see Appendix G.

A statistical analysis reports will be available from BLIS in the future.

```
BLIS                          DOWNLOAD FORMAT MENU                    DATE: 08/28/
                              Currently Active Subset  : 1

                    <F>   INDEX OF DETERMINATIONS - APPENDIX F.

                    <G>   DETERMINATIONS BY PROCESS - APPENDIX G.

                    <H>   DETAILED SOURCE LISTINGS - APPENDIX H.

                    <I>   FREE FORM FORMAT - ALL DATA

                    <L>   LOTUS OR dBASE INPUT FORMAT

                    <M>   SCHEDULING REPORT

                    <X>   EXIT TO QUERY MENU

 Enter   |      Select the Format you want to Download your data in
 Option  |                  or press <F1> for HELP.
```

Figure 4.1 - Download Format Menu

If you choose the Appendix H, free form, or Lotus/dBase download formats, BLIS prompts you to select the amount of data to download (Figure 4.2). 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 fifty (non-removed) facilities in your subset, the first fifty will be downloaded.

```
BLIS                          DOWNLOAD OPTIONS MENU                    DATE: 08/28/92

                          | Currently Active Subset  : 1 |

  ALL FACILITY LEVEL DATA, PLUS DATA ON ...

            <A>   ALL PROCESSES AND POLLUTANTS FOR EACH SELECTED
                  FACILITY

            <B>   ONLY SELECTED PROCESSES AND ALL POLLUTANTS
                  FOR EACH SELECTED FACILITY

            <C>   ONLY SELECTED POLLUTANTS FOR EACH SELECTED
                  FACILITY AND PROCESS

            <X>   EXIT TO DOWNLOAD FORMAT MENU


 Enter  |              Select the data you want to Download
 Option |                   or Press <F1> for HELP.
   ▒    |
```

Figure 4.2 - Download Options Menu

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. The record is written to a file for downloading during the format process. After the facility information is formatted, the program loops through all process records for the facility (described below) and reads the next selected facility record. When all the facilities have been written to the download file, the program returns to the Query Menu.

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.

When the Scheduling Report is chosen, Figure 4.3 is displayed. The Scheduling Report gives information on past dues scheduling information. You may choose one particular date to check, or you may check all dates by selecting <K>.

```
BLIS                    SCHEDULING OPTIONS MENU                    DATE: 08/28/9

                        Currently Active Subset  : 1

                  <A>  Application Received
                  <B>  Control Technology Determination
                  <C>  Air Quality Impact Analysis
                  <D>  Other Impact Analysis
                  <E>  Draft Permit
                  <F>  Public Notice
                  <G>  Permit Issued
                  <H>  Start Construction
                  <I>  Start Up
                  <J>  Compliance Verification

                  <K>  Any Date Overdue

                  <X>  Exit to Download Menu

 Enter |                Select the deadline you want to check
 Option |                     or Press <F1> for HELP.
 ▒
```

Figure 4.3 - Options for the BLIS Scheduling Report.

Since the number of determination that may be downloaded at one time is limited to fifty, 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 BLIS BBS

Part 5 -- Submitting Information to BLIS

Upon entering BLIS you may choose to Query or Edit. This section of the BLIS User's Manual describes the Edit option. The first screen in BLIS which you will see is displayed in Figure 5.1. To edit, simply press <E>. As with the Query section of BLIS, you must press the enter key after each menu selection.

It is important to note that BLIS has an enhanced HELP system which will provide assistance at any point during an edit session. Just press F1 to access the HELP system which explains the screen at which you are currently looking. HELP is also context-sensitive; you will not have to scroll through long lists of values in order to find the one appropriate to your situation.

Upon selection of Edit from the Main menu, BLIS will ask you for a password. In order to edit or add any information to the BLIS data base, you must have a valid BLIS ID and password (see Figure 5.2). For information on obtaining a BLIS ID see Part 1 of this User's Manual.

```
                    RACT/BACT/LAER INFORMATION SYSTEM
BLIS                          DATA BASE MENU                  DATE: 06/15/92

                    <Q>   QUERY DATA BASE

                    <E>   EDIT DATA BASE

                    <X>   EXIT TO BLIS 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 - First menu for BLIS users.

```
                    RACT/BACT/LAER INFORMATION SYSTEM
BLIS                          DATA BASE MENU                    DATE: 06/15/9

                    <Q>   QUERY DATA BASE

                    <E>   EDIT DATA BASE

                    <X>   EXIT TO BLIS BBS
                          Enter Password:

          Press <F1> for HELP anywhere throughout the system.

 Enter  |     Password Required to Continue to the Edit Menu!!
 Option |        Type in the Password and Press <Enter>
   E    |              or Press <Esc> to abandon
```

Figure 5.2 - <E>dit option selected. Password required to continue to the Edit menu.

Following the BLIS prompt to enter a password, you should enter your authorized password. Based on this password, BLIS will provide you with access to specific determinations in both the transient and permanent BLIS data bases. If you enter an invalid password, BLIS will display a message and deny entry into the Edit module (see Figure 5.3).

```
                    RACT/BACT/LAER INFORMATION SYSTEM
BLIS                          DATA BASE MENU                    DATE: 06/15/92

                    <Q>   QUERY DATA BASE

                    <E>   EDIT DATA BASE

                    <X>   EXIT TO BLIS BBS
                          Enter Password: XXXXXXX

          Press <F1> for HELP anywhere throughout the system.

 Enter
 Option      *** INVALID PASSWORD !! ACCESS DENIED !! ***
 E
```

Figure 5.3 - Invalid password entered into BLIS

Once you have entered a valid password, BLIS will display the data bases from which to choose. Data bases which are currently available will be highlighted on the screen (see Figure 5.4). Following selection of a data base, BLIS will display the Record Selection Menu (see Figure 5.5). This menu allows you to select which records to update. The <L> option takes you to the facility list screen and displays the BLIS ID and company names you are authorized to update.

```
BLIS  EDIT                SELECT DATA BASE MENU                DATE: 06/15/9


                <B>   BLIS DATA BASE

                <A>   AIR QUALITY IMPACT DATA BASE

                <F>   FEDERAL/STATE/LOCAL REGULATIONS DATA BASE

                <X>   EXIT TO BLIS BBS


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

Figure 5.4 - Select Data Base Menu

```
BLIS  EDIT                RECORD SELECTION MENU                DATE: 06/15/92

                          <E>   ENTER BLIS ID

                          <L>   LIST BLIS IDs

                          <A>   ADD NEW DETERMINATION

                          <X>   EXIT TO SELECT DATA BASE MENU

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

Figure 5.5 - 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 determinaton that does not exist in the master data base. It has been recently entered into BLIS 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 will take 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 BLIS ID. If you choose this option, BLIS will display a pop-up box and prompt you to enter the BLIS ID of the record which you would like to update (Figure 5.6). If you do not have authority to update the records for the BLIS ID entered, a message is displayed and you will be denied access (Figure 5.7). Alternately, if you enter a BLIS ID that does not exist, BLIS will display an error message (Figure 5.8).

```
BLIS  EDIT                RECORD SELECTION MENU                    DATE: 06/15/9

                          <E>   ENTER BLIS ID

                          <L>   LIST BLIS IDs

                          <A>   ADD NEW DETERMINATION

                          <X>   EXIT TO SELECT DATA BASE MENU

                                      Enter BLIS ID:    -    .

 Enter  |        Enter the BLIS ID of the Record you want to EDIT.
 Option |
   E    |  <Esc> to Abandon                                  <F1> for HELP
```

Figure 5.6 - <E> option selected. BLIS prompts user to enter the BLIS ID of the records to be updat

```
BLIS  EDIT                RECORD SELECTION MENU                    DATE: 06/15/9:

                          <E>   ENTER BLIS ID

                          <L>   LIST BLIS IDs

                          <A>   ADD NEW DETERMINATION

                          <X>   EXIT TO SELECT DATA BASE MENU

                                      Enter BLIS ID:  WY-0011

 Enter  |
 Option |     *** YOU DO NOT HAVE AUTHORITY TO EDIT THIS RECORD !! ***
   E    |
```

Figure 5.7 - Edit Access Denied. User does not have update authority.

```
BLIS  EDIT                RECORD SELECTION MENU                DATE: 06/15/92

                    <E>   ENTER BLIS ID

                    <L>   LIST BLIS IDs

                    <A>   ADD NEW DETERMINATION

                    <X>   EXIT TO SELECT DATA BASE MENU

                                 Enter BLIS ID:  KK-2222.20

 Enter
 Option
   E                     *** INVALID BLIS ID ***
```

Figure 5.8 - Invalid BLIS ID

Figure 5.9 displays the screen which follows when you choose to <A> Add New Facility. BLIS will prompt you for the state abbreviation of the state in which the facility is located. Using this information BLIS can assign a unique BLIS ID to the determination and display a screen onto which you can enter information (see page 5-19, Adding Determinations to the Data Base).

```
BLIS  EDIT                RECORD SELECTION MENU                    DATE: 06/15/9


                          <E>   ENTER BLIS ID

                          <L>   LIST BLIS IDs

                          <A>   ADD NEW DETERMINATION

                          <X>   EXIT TO SELECT DATA BASE MENU

                                      Enter State Abbreviation:

 Enter  |  Enter the State Abbreviation in which your Facility is found.
 Option |
   A    |  <Esc> to Abandon                                  <F1> for HELP
```

Figure 5.9 - Record Selection Menu, user has chosen <A> Add New Facility

Editing the Data Base

Editing the data base is a BLIS option which allows you to track the progress of your determinations or correct any mistakes you may find in your determinations.

After you choose <L> List BLIS IDs at the Record Selection Menu, you will be presented with a list of the facilities which you are authorized to edit. Once BLIS identifies the records to be updated, the BLIS ID and facility name for each record is displayed in order by facility name. Any new or edited determinations listed here will have a letter displayed to the left of the BLIS ID which describes the status of the record. If no letter is displayed, then the determination is old (see Figure 5.13 for an example of "C" and "I").

```
BLIS  EDIT                          FACILITY LIST                    DATE: 06/15/92

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

Figure 5.10 - Facility List

From the list which BLIS presents, you may choose the facility to edit. In this case, let's say you decide to edit WA-0022. You will enter the appropriate record number, in this case (3), and BLIS will display the process list for that particular facility. Figure 5.11 shows this process list.

Selecting <E> Enter BLIS ID at the Record Selection Menu will bring you directly to the 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 may not 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 BLIS System Administrator at (919) 541-2736. He or she has the authority to make this change for you.

The last area is the BLIS ID (and suffix where applicable). Since this information is system generated it is never entered or edited.

```
BLIS  EDIT                        PROCESS LIST                        DATE: 06/15/9:

Facility:  WA-0022      JAMES RIVER CORP.

REC NO    Process Name                                  Throughput Capacity
------    ------------------------------------------    -------------------
1         FURNACE, RECOVERY, #3                         523.00 MMBTU/H
2         FURNACE, RECOVERY, #4                         770.00 MMBTU/H
3         DISSOLVER VENT, SMELT, #3                     0.00
4         DISSOLVER VENT, SMELT, #4                     0.00
5         KILN, LIME & EVAPORATOR, BLOW HEAT            0.00
6         BOILER, MAGNEFITE                             400.00 MMBTU/H
7         BOILER, POWER, #3                             345.00 MMBTU/H

          "C" = Complete          "I" = Incomplete          "D" = Deleted

  Enter  | Enter Record Number to Select a Process.                <F1> HELP
 Option  | <F>acility Level Data                       <Ctrl><R> to Page Up
    1    | E<X>it to Facility List                    <Ctrl><C> to Page Down
```

Figure 5.11 - Process List

If you choose <F> Facility Level Data at the Process List, BLIS will display the facility level information as seen in Figure 5.12. You can choose to edit or delete the data, toggle the data ready for promotion (complete) or not ready for promotion (incomplete), or view the notes.

Toggling 'complete' or 'incomplete' tells the BLIS System Administrator (SA) whether you believe that the determination is complete and ready to be moved to the BLIS permanent data base. Periodically, the BLIS SA will review the determinations in the transient data base which have been marked 'complete'. If all of the required fields are complete, the BLIS SA will promote the determination to the permanent BLIS data base. Alternatively, if the BLIS 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. See Figure 5.13.

```
BLIS  EDIT                    FACILITY  DATA                    DATE: 06/15/92
WA-0022    JAMES RIVER CORP.
ADDRESS: 1000 COMPUTER CIRCLE          CITY: CAMAS            STATE: WA
 COUNTY: WAKE                           ZIP: 27621
    REG: 10       NEW/MOD: N
                                ENTERED: 04/24/89    LAST UPDATED: 01/31/92
 AGENCY CODE: WA999  AGENCY NAME: WASHINGTON DEPARTMENT OF THE ENVIRONMENT
CONTACT: ALAN BUTLER                              PHONE: (206)649-7103
 PERMIT NUMBER: PSD-88-3 & DE-88-360 MODIFICAT     SIC:
REGION FILE NO: XXXXXxxxxxXXXXXxxxxx            EPA ID:
PUBLIC HEARING: Y                              AIRS ID:
                     Estimated Actual                      Estimated Actual
   APPLICATION RCVD:04/04/85 04/04/85    COMPL VALIDATION:03/01/90 03/01/90
CONTROL TECH DETERM:05/14/86 05/14/86       PUBLIC NOTICE:09/23/91 09/23/91
  AIR QUAL ANALYSIS:06/24/87 06/24/87  START CONSTRUCTION:02/26/90 02/27/90
OTH IMPACT ANALYSIS:07/11/88 07/22/88            START-UP:07/01/90 07/01/90
DRAFT PERMIT ISSUED:08/30/89 08/30/89 FINAL PERMIT ISSUED:01/26/89 09/26/91
  Enter | <E>dit Facility     <D>elete Facility     <C>omplete   <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 5.12 - Facility Data Screen

```
BLIS  EDIT                        FACILITY  DATA                    DATE: 06/15/9

WA-0022     JAMES RIVER CORP.                                          COMPLET
ADDRESS: 1000 COMPUTER CIRCLE          CITY: CAMAS              STATE: WA
 COUNTY: WAKE                           ZIP: 27621
    REG: 10       NEW/MOD: N
                                ENTERED: 04/24/89    LAST UPDATED: 01/31/92
 AGENCY CODE: WA999  AGENCY NAME: WASHINGTON DEPARTMENT OF THE ENVIRONMEN
CONTACT: ALAN BUTLER                                PHONE: (206)649-7103
 PERMIT NUMBER: PSD-88-3 & DE-88-360 MODIFICAT     SIC:
REGION FILE NO: XXXXXxxxxxXXXXXxxxxx            EPA ID:
PUBLIC HEARING: Y                              AIRS ID:
                      Estimated Actual                      Estimated Actua
   APPLICATION RCVD:04/04/85 04/04/85    COMPL VALIDATION:03/01/90 03/01/
CONTROL TECH DETERM:05/14/86 05/14/86       PUBLIC NOTICE:09/23/91 09/23/
  AIR QUAL ANALYSIS:06/24/87 06/24/87  START CONSTRUCTION:02/26/90 02/27/
OTH IMPACT ANALYSIS:07/11/88 07/22/88            START-UP:07/01/90 07/01/
DRAFT PERMIT ISSUED:08/30/89 08/30/89 FINAL PERMIT ISSUED:01/26/89 09/26/

  Enter  | <E>dit Facility     <D>elete Facility   In<C>omplete   <F1> HEL
 Option  | Exit to <F>acility List                    <Ctrl><R> to Page U
    ▒    | E<X>it to Process List    Edit <N>otes    <Ctrl><C> to Page Dow
```

Figure 5.13 - Record Flagged as Complete -- The <C> option works as a toggle between complete incomplete. While the record is incomplete the <C> option reads "<C>omplete". Selecting <C> will di the word "COMPLETE" in the upper right corner of the screen and the record will be flagged as com The option will then read "In<C>omplete" at the bottom of the screen and the user can select <C> aga flag the record as incomplete.

If you choose to <E> Edit Facility at the Facility Data screen, BLIS will display all facility level information for the determination. At this point you may edit both the facility level information and the notes. All fields that may be edited will be highlighted on screen. You must place the cursor in the field which you would like to edit and type in the information. If you have questions regarding valid information for a field, press F1 for HELP. BLIS is context-sensitive and will provide information for this particular field. See Figure 5.14.

```
BLIS  EDIT                        EDIT FACILITY                        DATE: 06/15/92

WA-0022    JAMES RIVER CORP.                                                COMPLETE
ADDRESS: 1000 COMPUTER CIRCLE          CITY: CAMAS                  STATE: WA
 COUNTY: WAKE                           ZIP: 27621
    REG: 10       NEW/MOD: N
                                 ENTERED: 04/24/89    LAST UPDATED: 01/31/92
 AGENCY CODE: WA999  AGENCY NAME: WASHINGTON DEPARTMENT OF THE ENVIRONMENT
CONTACT: ALAN BUTLER                                   PHONE: (206)649-7103
 PERMIT NUMBER: PSD-88-3 & DE-88-360 MODIFICAT          SIC:
REGION FILE NO:                                       EPA ID:
PUBLIC HEARING: Y                                    AIRS ID:
                      Estimated Actual                          Estimated Actual
   APPLICATION RCVD:04/04/85 04/04/85    COMPL VALIDATION:03/01/90 03/01/90
CONTROL TECH DETERM:05/14/86 05/14/86       PUBLIC NOTICE:09/23/91 09/23/91
  AIR QUAL ANALYSIS:06/24/87 06/24/87  START CONSTRUCTION:02/26/90 02/27/90
OTH IMPACT ANALYSIS:07/11/88 07/22/88            START-UP:07/01/90 07/01/90
DRAFT PERMIT ISSUED:08/30/89 08/30/89 FINAL PERMIT ISSUED:01/26/89 09/26/91

  Enter  |                        <Ctrl><W> to Save
 Option  |
         |  <Esc> to abandon                                          <F1> HELP
```

Figure 5.14 - <E>dit option selected at Facility Data screen (Figure 5.13)

After you input all the facility information, BLIS will validate the information in the fields which can be searched in Query. The data will 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.

A second option which you may choose at the Facility Data screen (Figure 5.13) 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 5.15).

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" will appear 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.

```
BLIS  EDIT                    DELETE FACILITY                    DATE: 06/15/9

WA-0022     JAMES RIVER CORP.                                          COMPLET
ADDRESS: 1000 COMPUTER CIRCLE          CITY: CAMAS            STATE: WA
 COUNTY: WAKE                           ZIP: 27621
    REG: 10       NEW/MOD: N
                                ENTERED: 04/24/89    LAST UPDATED: 01/31/92
 AGENCY CODE: WA999  AGENCY NAME: WASHINGTON DEPARTMENT OF THE ENVIRONMEN'
CONTACT: ALAN BUTLER                              PHONE: (206)649-7103
 PERMIT NUMBER: PSD-88-3 & DE-88-360 MODIFICAT    SIC:
REGION FILE NO: XXXXXxxxxxXXXXXxxxxx            EPA ID:
PUBLIC HEARING: Y                               AIRS ID:
                     Estimated Actual                        Estimated Actua
   APPLICATION RCVD:04/04/85 04/04/85    COMPL VALIDATION:03/01/90 03/01/
CONTROL TECH DETERM:05/14/86 05/14/86       PUBLIC NOTICE:09/23/91 09/23/
  AIR QUAL ANALYSIS:06/24/87 06/24/87  START CONSTRUCTION:02/26/90 02/27/
OTH IMPACT ANALYSIS:07/11/88 07/22/88            START-UP:07/01/90 07/01/
DRAFT PERMIT ISSUED:08/30/89 08/30/89 FINAL PERMIT ISSUED:01/26/89 09/26/

          Do you want to delete this facility and all its processes
               and pollutants from the transient data base ?
                                   Y/N
```

Figure 5.15 - <D>elete option selected at the Facility Data screen

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, BLIS returns you to the Process List. You may now E<X>it to Facility List or enter a record number to select a process. See Figure 5.11 to review the process list. Assume that you want to edit information for the first process, Furnace, Recovery, #3. BLIS will now display the Pollutant List for the process (see Figure 5.16). 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 5.17 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.

```
BLIS  EDIT                          POLLUTANT LIST                DATE: 06/15/92

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 <F>acility List   <A>dd Pollutant   <Ctrl><R> to Page Up
   1     | E<X>it to Process List   <P>rocess Data   <Ctrl><C> to Page Down
```

Figure 5.16 - Pollutant List

```
BLIS  EDIT                          PROCESS DATA                          DATE: 06/15/9

WA-0022     JAMES RIVER CORP.

PROCESS: FURNACE, RECOVERY, #3
PROCESS TYPE: 0.000          SCC CODE:

THROUGHPUT:  523.00 MMBTU/H
BOILER SIZE: 334445.00 LB/MMBTU

PERFORMANCE CONFIRMATION:
            COMPLIANCE VERIFIED: Y
                  STACK TESTING: N
                    INSPECTIONS: N
                   CALCULATIONS: Y
                  OTHER TESTING: Y
           OTHER TESTING METHOD:

  Enter  | Exit to <F>acility List      <D>elete Process      <E>dit Process
 Option  | Exit to <P>rocess List                        <Ctrl><R> to Page Up
         | E<X>it to Pollutant List    <F1> HELP     <Ctrl><C> to Page Down
```

Figure 5.17 - Process Data screen, user may now choose to edit information

```
BLIS  EDIT                          EDIT PROCESS                          DATE: 06/15/92

WA-0022     JAMES RIVER CORP.

PROCESS: FURNACE, RECOVERY, #3
PROCESS TYPE: 0.000          SCC CODE:

THROUGHPUT:  523.00 MMBTU/H
BOILER SIZE: 334445.00 LB/MMBTU

PERFORMANCE CONFIRMATION:
            COMPLIANCE VERIFIED: Y
                  STACK TESTING: N
                    INSPECTIONS: N
                   CALCULATIONS: Y
                  OTHER TESTING: Y
           OTHER TESTING METHOD:

  Enter  |                          <Ctrl><W> to Save
 Option  |
         | <Esc> to abandon                                          <F1> HELP
```

Figure 5.18 - Edit Process screen, fields to be edited will be highlighted

Figure 5.18 displays the screen used to edit process information (BLIS will highlight all fields which may be edited). As with the facility information, by pressing F1 you may access HELP at any point while editing process information.

Deleting a process from a new determination flags the process record and all the associated pollutant records 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. BLIS will then display the Pollutant Data screen (see Figure 5.19). 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 will appear with the appropriate fields highlighted (see Figure 5.20). As with facility and process level information, you can access HELP at any point while editing pollutant data by pressing F1.

```
BLIS  EDIT                        POLLUTANT DATA                    DATE: 06/15/92
------------------------------------------------------------------------------------
WA-0022     JAMES RIVER CORP.
PROCESS:    FURNACE, RECOVERY, #3                      523.00 MMBTU/H
POLLUTANT: PM10                    CAS NUMBER:
   CONTROL EQUIPMENT: ESP W/HEAT RECOVERY SCRUBBER
PROCESS MODIFICATION:
MANUFACTURER:                                    MODEL:
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                                 CALCULATED EFFIC: 0.000
BASE EMISSION: 0.0000                                    EMISSION TYPE:
COST DATA:
    CAP COST OF CONTROL EQUIP:  0.00          ANNUALIZED COST: $0.00
    O/M COST OF CONTROL EQUIP:  0.00       COST EFFECTIVENESS: $0.00
    COST VERIFIED BY AGENCY: N    DOLLAR YEAR USED IN COST ESTIMATES:
------------------------------------------------------------------------------------
  Enter | Exit to <F>acility List    <D>elete Pollutant    <E>dit Pollutant
 Option | Exit to <P>rocess List                        <Ctrl><R> to Page Up
        | E<X>it to Pollutant List    <F1> HELP     <Ctrl><C> to Page Down
```

Figure 5.19 - Pollutant Data screen

```
BLIS  EDIT                        EDIT POLLUTANT                        DATE: 06/15/9

WA-0022     JAMES RIVER CORP.
PROCESS:    FURNACE, RECOVERY, #3                        523.00 MMBTU/H
POLLUTANT:  PM10                    CAS NUMBER:
   CONTROL EQUIPMENT:  ESP W/HEAT RECOVERY SCRUBBER
PROCESS MODIFICATION:
MANUFACTURER:                                          MODEL:
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:  99.50
 STANDARDIZED:  0.0000                             CALCULATED EFFIC:  0.000
BASE EMISSION:  0.0000                                EMISSION TYPE:
COST DATA:
    CAP COST OF CONTROL EQUIP:  $0.00          ANNUALIZED COST:  $0.00
    O/M COST OF CONTROL EQUIP:  $0.00       COST EFFECTIVENESS:  $0.00
    COST VERIFIED BY AGENCY:  N    DOLLAR YEAR USED IN COST ESTIMATES:

  Enter |                    <Ctrl><W> to Save
 Option |
        |  <Esc> to abandon                                          <F1> HEL
```

Figure 5.20 - 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, you will return 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.

Adding Determinations to the Data Base

At the Record Selection Menu (Figure 5.5), you may choose to <A> Add New Determination to the BLIS data base. Using this information, BLIS will assign a unique BLIS ID to the new determination.

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

Although the information for a determination does not have to be complete, BLIS does have certain restrictions with regard to minimum information. For each BLIS determination, you must input at least one process and one pollutant. Only the facility name, process name, and a pollutant name are needed to save the new determination. Also,

you should not input information until you are certain that you have listed all processes for the facility. You may not 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 BLIS determination.

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

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

After receiving an answer, 'yes' or 'no', BLIS will display the Add Facility screen with or without the copied information (see Figure 5.21). Note the new BLIS 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. BLIS will provide a message stating that the user must now enter process data for the facility (Figure 5.22).

```
BLIS  EDIT                          ADD FACILITY                          DATE: 06/15/9

WA-0022  COMPANY NAME:
ADDRESS:                                          CITY:                    STATE: WA
 COUNTY:                                           ZIP:
    REG: 10        NEW/MOD:
                                   ENTERED: 06/15/92     LAST UPDATED: 06/15/92
 AGENCY CODE: WA999  AGENCY NAME: WASHINGTON DEPARTMENT OF THE ENVIRONMEN
CONTACT:                                                   PHONE:
 PERMIT NUMBER:                                              SIC:
REGION FILE NO:                                            EPA ID:
PUBLIC HEARING:                                           AIRS ID:
                      Estimated Actual                                Estimated Actua
   APPLICATION RCVD:                          COMPL VALIDATION:
CONTROL TECH DETERM:                             PUBLIC NOTICE:
  AIR QUAL ANALYSIS:                         START CONSTRUCTION:
OTH IMPACT ANALYSIS:                                  START-UP:
DRAFT PERMIT ISSUED:                       FINAL PERMIT ISSUED:

  Enter |                          <Ctrl><W> to Save
 Option |
        | <Esc> to abandon                                          <F1> HELI
```

Figure 5.21 - Add Facility screen

```
BLIS  EDIT                          ADD FACILITY                          DATE: 06/15/92

WA-0022    JAMES RIVER CORP.
ADDRESS:                                          CITY:                    STATE: WA
 COUNTY:                                           ZIP:
    REG: 10        NEW/MOD:
                                   ENTERED: 04/24/89     LAST UPDATED: 01/31/92
 AGENCY CODE: WA999  AGENCY NAME: WASHINGTON DEPARTMENT OF THE ENVIRONMENT
CONTACT:                                                   PHONE:
PERMIT NUMBER:                                              SIC:
REGION FILE NO:                                            EPA ID:
PUBLIC HEARING:                                           AIRS ID:
                      Estimated Actual                                Estimated Actual
   APPLICATION RCVD:                          COMPL VALIDATION:
CONTROL TECH DETERM:                             PUBLIC NOTICE:
  AIR QUAL ANALYSIS:                         START CONSTRUCTION:
OTH IMPACT ANALYSIS:                                  START-UP:
DRAFT PERMIT ISSUED:                       FINAL PERMIT ISSUED:

  Enter |                   *** Facility Data Saved ***
 Option |
        |        *** You must now enter a process for this facility ***
```

Figure 5.22 - When the facility data is saved, the user must enter process data.

The next screen which you will see is the Add Process screen (Figure 5.23). 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 chooses to quit, BLIS 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.

Once the process data is input and saved, BLIS will prompt you to enter the pollutant data (see Figure 5.24).

```
BLIS  EDIT                          ADD PROCESS                          DATE: 06/15/92

WA-0022     JAMES RIVER CORP.

PROCESS:
PROCESS TYPE:                 SCC CODE:

THROUGHPUT:
BOILER SIZE:                LB/MMBTU

PERFORMANCE CONFIRMATION:
            COMPLIANCE VERIFIED:
                  STACK TESTING:
                    INSPECTIONS:
                   CALCULATIONS:
                  OTHER TESTING:
          OTHER TESTING METHOD:

  Enter   |                          <Ctrl><W> to Save
 Option   |
          |  <Esc> to abandon                                              <F1> HELP
```

Figure 5.23 - Add Process screen

```
BLIS  EDIT                        ADD PROCESS                        DATE: 06/15/9

WA-0022     JAMES RIVER CORP.

PROCESS:
PROCESS TYPE:                 SCC CODE:

THROUGHPUT:
BOILER SIZE:

PERFORMANCE CONFIRMATION:
            COMPLIANCE VERIFIED:
                  STACK TESTING:
                    INSPECTIONS:
                   CALCULATIONS:
                  OTHER TESTING:
          OTHER TESTING METHOD:

 Enter  |                 *** Process Data Saved ***
 Option |
   ▒    |      *** You must now enter a pollutant for this process ***
```

Figure 5.24 - When the process data is saved, the user must enter the pollutant data.

The final screen which you will see is the Add Pollutant screen (Figure 5.25). 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, BLIS 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.

Once the pollutant data is input and saved, BLIS will allow you to enter another pollutant, to enter another process with its associated pollutants, or exit to the Data Base Menu.

```
BLIS  EDIT                        ADD POLLUTANT                        DATE: 06/15/92

WA-0022     JAMES RIVER CORP.
PROCESS:    FURNACE, RECOVERY, #3                          523.00 MMBTU/H
POLLUTANT:                          CAS NUMBER:
   CONTROL EQUIPMENT:
PROCESS MODIFICATION:
MANUFACTURER:                                        MODEL:
NUMBER OF CONTROL OPTIONS CONSIDERED:     RANK OF OPTION SELECTED:
EMISSION LIMITS:
      PRIMARY:                                          BASIS:
    ALTERNATE:                                     % EFFICIENCY:
 STANDARDIZED:                                  CALCULATED EFFIC:
BASE EMISSION:                                     EMISSION TYPE:
COST DATA:
    CAP COST OF CONTROL EQUIP: $                 ANNUALIZED COST: $
    O/M COST OF CONTROL EQUIP: $               COST EFFECTIVENESS: $
    COST VERIFIED BY AGENCY:     DOLLAR YEAR USED IN COST ESTIMATES:

  Enter |                    <Ctrl><W> to Save
 Option |
        | <Esc> to abandon                                          <F1> HELP
```

Figure 5.25 - Add Pollutant screen

Information may be submitted to BLIS by filling out an Input form and mailing it to the BLIS SYSOP. If you would prefer to enter information this way, you may obtain Input forms by calling the BLIS SYSOP, Joe Steigerwald at (919) 541-2736. The following instructions explain how to complete the Input form and how to submit it.

INSTRUCTIONS FOR COMPLETING BACT/LAER CLEARINGHOUSE

INPUT SUMMARY

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:** Circle "New" or "Modified," depending on the nature of the permit. If the permit covers a new unit at a new or existing source, it should be marked as "New." If the addition of a new unit to an existing source triggers a new permit for the entire source, then it should be circles "Modified." If the permit is only for a single unit, but the unit was modified, then it should be circled, "Modified."

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

4. **Determination Made by:** Designate the 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.

5. **Scheduling Information:** Permitting scheduling dates stored in BLIS are:

   - date application is received
   - control technology determination (estimated and actual)
   - air quality analysis complete (estimated and actual)
   - other quality analysis complete (estimated and actual)
   - draft permit issued (estimated and actual)
   - public notice (estimated and actual)
   - final permit issued (estimated and actual)
   - start construction (estimated and actual)
   - start-up date (estimated and actual)
   - compliance verification (estimated and actual)

   Please enter all of the scheduling information available. BLIS also includes a logical field with information on whether the permitting agency held a public hearing.

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.

   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. **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 A.

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

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

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:** An entry should be made 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. 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 A.

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

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 BLIS. If standard units are provided for process types, BLIS users can compare the entries in this field to determine the most stringent limits.

- Base-line limit and units: A base-line figure provided by the permit issuing agency. This figure can be used to calculate percent efficiency. The units must be the same as the Standardized limit.

13. 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, NESHAPS, 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

14. Control Equipment or Process Modification Description: Describe control equipment (ESP, fabric filter, etc.0, 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. Information in this section may be supplemented under the "Notes" section.

15. Control Equipment Manufacturing and Model Number: Two fields which provide specific information on the control equipment. Please provide this information if it is available.

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

17. Overall Efficiency %: Enter the overall system efficiency, consisting of capture (hoods, ductwork, ect.) and collection (control device) efficiency. Any breakdown of efficiencies for capture of collection individually should be shown under "Notes."

18. Calculated Efficiency: The efficiency of control calculated using the base-line emissions and the standardized emissions limit.

19. 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 os 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, ect.

20. Cost Data: Control costs contained in BLIS include:

- Capital cost of control equipment
- Annual operation and maintenance cost of control equipment
- Annualized cost (amortized capital cost + annual operation & maintenance costs)

- Cost effectiveness in dollars per ton (annualized cost/tons of pollutant removed)
- Cost verified by the permitting agency (yes or no)
- Year of the dollar used in cost calculations

21. 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-13)
US EPA
RTP, NC 27711

USER'S MANUAL FOR THE BLIS BBS

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 Health Department, CA

CA006	Colusa Co APCD, CA
CA007	El Dorado Co Air Poll Control Dist, CA
CA008	Fresno Air Poll Control District, CA
CA009	Glenn Co Air Poll Control District, CA
CA010	Great Basin Unified APCD, CA
CA011	Imperial County APCD, CA
CA012	Kern County APCD, CA
CA013	Kings County APCD, CA
CA014	Lake County AQMD, CA
CA015	Lassen Co APCD Hearing Board, CA
CA016	Madera County APCD, CA
CA017	Mariposa County Health Department, CA
CA018	Mendocino County APCD, CA
CA019	Merced County APCD, CA
CA020	Modoc County APCD, CA
CA021	Monterey Bay Unified APCD, CA
CA022	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	Plumas County Env Health Department, CA
CA028	Sacramento Metropolitan AQMD, CA
CA029	San Bernardino County APCD, CA
CA030	San Diego County APCD, CA
CA031	San Joaquin County APCD, 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	Standards County APCD, CA
CA038	Stanislaus County APCD, CA
CA039	Sutter County APCD, CA
CA040	Tehama County APCD, CA
CA041	Tulare County APCD, CA
CA042	Tuolumne County APCD, CA
CA043	Ventura County APCD, CA
CA044	Yolo-Solano APCD, CA
CA045	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 State Dept of Health & Env Sci
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 Dept of Air Pollution Control
VA002	Alexandria Health Department, VA
VA003	Fairfax County Air Pollution Control, VA
VA004	Roanoke City Engineering Dept, VA
VA005	Roanoke Co/Salem Air Poll Ctrl, VA
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

Appendix B -- Process Code Listing

CODE	PROCESS TYPE
10.000	COMBUSTION
11.000	EXTERNAL COMBUSTION
11.001	Bagasses Combustion
11.002	Coal Combustion
11.003	Lignite combustion
11.004	Multiple Fuels Combustion
11.005	Natural Gas Combustion
11.006	Fuel Oil 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
15.003	Gasoline
15.004	Natural Gas
15.005	Process Gas
15.006	Fuel Oil
15.007	Multiple Fuels
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
22.001	Benzene Waste 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)
22.006	Contaminated Soil Treatment
22.999	Other Hazardous Waste Processing/Disposal Facilities
29.000	OTHER WASTE DISPOSAL (except 21 & 22)
29.001	Automobile Body Shredding/Incineration
29.002	Industrial Wastewater/Contaminated Water Treatment
29.003	Industrial Landfills
29.004	Medical/Infectious Waste Incineration
29.999	Other Waste Disposal Sources
30.000	WOOD PRODUCTS INDUSTRY
30.001	Charcoal
30.002	Kraft Pulp Mills
30.003	Plywood and Veneer Operations
30.004	Pulp and Paper Production other than Kraft
30.005	Reconstituted Panelboard Plants (waferboard, particleboard, etc.)
30.006	Wood Treatment
30.007	Woodworking
30.999	Other Wood Products Industry Sources
40.000	ORGANIC EVAPORATIVE LOSSES
41.000	SURFACE COATING/PRINTING/GRAPHIC ARTS
41.001	Aerospace Surface Coating
41.002	Automobiles and Trucks Surface Coating (OEM)
41.003	Automotive Refinishing
41.004	Can Surface Coating
41.005	Fabric Coating/Printing/Dyeing (except 41.017)
41.006	Flatwood Paneling Surface Coating
41.007	Flexible Vinyl & Urethane Coating/Printing
41.008	Large Appliance Surface Coating
41.009	Magnetic Tape Surface Coating

CODE	PROCESS TYPE
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)
41.026	Leather Surface Coating
41.999	Other Surface Coating/Printing/Graphic Arts Sources
42.000	LIQUID MARKETING (PETROLEUM PRODUCTS, GASOLINE, VOL)
42.001	Gasoline Bulk Plants
42.002	Gasoline Bulk Terminals
42.003	Gasoline Marketing (except 42.001 & 42.002)
42.004	Petroleum Liquid Marketing (except 42.001-003 & 42.005-006)
42.005	Petroleum Liquid Storage in Fixed Roof Tanks
42.006	Petroleum Liquid Storage in Floating Roof Tanks
42.009	Volatile Organic Liquid Storage
42.010	Volatile Organic Liquid Marketing (except 42.009)
42.999	Other Liquid Marketing Sources
49.000	ORGANIC EVAPORATIVE LOSSES (except 41 & 42)
49.001	Aerosol Can Filling
49.002	Dry Cleaning - PERC/Chlorinated Solvents
49.003	Dry Cleaning - Petroleum Solvents
49.004	Fiberglass Boat Manufacturing
49.005	Fiberglass/Reinforced Polymer Products Manufacturing (except 49.004)
49.006	Halogenated Solvent Cleaners
49.007	Ink Manufacturing

CODE	PROCESS TYPE
49.008	Organic Solvent Cleaning & Degreasing (except 49.006)
49.009	Paint/Coating/Adhesives Manufacturing
49.010	Paint Stripping
49.999	Other Organic Evaporative Loss Sources
50.000	PETROLEUM/NATURAL GAS PRODUCTION AND REFINING
50.001	Oil and Gas Field Services
50.002	Natural Gas/Gasoline Processing Plants
50.003	Petroleum Refining Conversion Processes (cracking, CO boilers, reforming, alkylation, polymerization, isomerization, coking)
50.004	Petroleum Refining Feedstock (blending, loading and unloading)
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)
50.007	Petroleum Refining Equipment Leaks/Fugitive Emissions
50.008	Petroleum Refining Flares and Incinerators (except acid gas/ sulfur recovery unit incinerators - 50.006)
50.009	Petroleum Refining Wastewater and Wastewater Treatment
50.010	Shale Processing
50.999	Other Petroleum/Natural Gas Production & Refining Sources (except 50.001-010 and 42.000 - Liquid Marketing)
60.000	CHEMICALS MANUFACTURING
61.000	AGRICULTURAL CHEMICALS MANUFACTURING
61.001	2,4-D Salts and Esters Production
61.002	4-Chloro-2-Methylphenoxyacetic Acid Production
61.003	4,6-Dinitro-o-Cresol Production
61.004	Captafol (tm) Production
61.005	Captan (tm) Production
61.006	Chloroneb (tm) Production
61.007	Chlorthalonil (tm) Production
61.008	Dacthal (tm) Production
61.009	Phosphate Fertilizers Production

CODE	PROCESS TYPE
61.010	Sodium Pentachlorophenate Production
61.011	Tordon Acid Production
61.012	Fertilizer Production (except 61.009)
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
62.004	Chromium Chemicals Manufacturing
62.005	Cyanuric Chemicals Manufacturing
62.006	Fume Silica Production
62.007	Hydrochloric Acid Production
62.008	Hydrogen Cyanide Production
62.009	Hydrogen Fluoride Production
62.010	Phosphoric Acid Manufacturing
62.011	Quaternary Ammonium Compounds Production
62.012	Sodium Cyanide Production
62.013	Uranium Hexafluoride Production
62.014	Nitric Acid Plants
62.015	Sulfuric Acid Plants
62.999	Other Inorganic Chemical Manufacturing Sources
63.000	POLYMER AND RESIN PRODUCTION
63.001	Acetal Resins Production
63.002	Acrylonitrile-Butadiene-Styrene Production
63.003	Alkyd Resins Production
63.004	Amino Resins Production
63.005	Butadiene-Furfural Cotrimer (R-11)
63.006	Butyl Rubber Production
63.007	Carboxymethylcellulose Production
63.008	Cellophane Production
63.009	Cellulose Ethers Production
63.010	Epichlorohydrin Elastomers Production
63.011	Epoxy Resins Production
63.012	Ethylene-propylene Rubber Production
63.013	Flexible Polyurethane Foam Production
63.014	Hypalon (tm) Production
63.015	Maleic Copolymers Production

CODE	PROCESS TYPE
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
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
69.003	Carbonyl Sulfide Production
69.004	Chelating Agents Production
69.005	Chlorinated Paraffins Production
69.006	Dodecanedioic Acid Production
69.007	Ethylidene Norbornene Production

CODE	PROCESS TYPE
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
69.014	Rubber Chemicals Manufacturing
69.015	Carbon Black Manufacturing
69.999	Other Chemical Manufacturing Sources
70.000	FOOD AND AGRICULTURAL PRODUCTS (also see 61 - AGRICULTURAL CHEMICALS)
70.001	Alfalfa Dehydrating
70.002	Baker's Yeast Manufacturing
70.003	Bread Bakeries
70.004	Cellulose Food Casing Manufacturing
70.005	Coffee Roasting
70.006	Cotton Ginning
70.007	Feed and Grain Handling, Storage & Processing (including Mills and Elevators)
70.008	Fermentation - Alcoholic Beverages
70.009	Fish Processing
70.010	Fruit and Vegetable Processing
70.011	Meat Smokehouses
70.012	Roasting (except 70.005)
70.013	Starch Manufacturing
70.014	Sugar Cane Processing
70.015	Vegetable Oil Production
70.999	Other Food and Agricultural Products Sources
80.000	METALLURGICAL INDUSTRY
81.000	FERROUS METALS INDUSTRY
81.001	Coke By-product Plants
81.002	Coke Production (except 81.001)
81.003	Ferroalloy Production
81.004	Iron Foundries
81.005	Stainless Steel/Specialty Steel Manufacturing
81.006	Steel Foundries
81.007	Steel Manufacturing (except 81.005 & 81.006)
81.008	Steel Pickling - HCL Process

CODE	PROCESS TYPE
81.999	Other Ferrous Metals Industry Sources
82.000	NONFERROUS METALS INDUSTRY
82.001	Lead Acid Battery Manufacturing
82.002	Lead Acid Battery Reclamation
82.003	Lead Oxide and Pigment Production
82.004	Lead Products (except 82.001-002, 82.006 & 82.012)
82.005	Primary Aluminum Production
82.006	Primary Copper Smelting
82.007	Primary Lead Smelting
82.008	Primary Magnesium Refining
82.009	Primary Zinc Smelting
82.010	Secondary Aluminum Production
82.011	Secondary Brass & Brass Ingot Production
82.012	Secondary Copper Smelting & Alloying
82.013	Secondary Lead Smelting
82.014	Secondary Magnesium Smelting
82.015	Secondary Zinc Processing
82.999	Other Non-Ferrous Metals Industry Sources
90.000	MINERAL PRODUCTS
90.001	Alumina Processing
90.002	Asphalt/Coal Tar Application - Metal Pipes
90.003	Asphalt Concrete Manufacturing
90.004	Asphalt Processing (except 90.002, 90.003 & 90.034)
90.005	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
90.017	Calciners & Dryers and Mineral Processing Facilities
90.018	Lead Ore Crushing and Grinding
90.019	Lime/Limestone Handling/Kilns/Storage/Manufacturing
90.020	Mercury Ore Processing

CODE	PROCESS TYPE
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
90.034	Asphalt Roofing Products Manufacturing
90.999	Other Mineral Processing Sources
99.000	MISCELLANEOUS SOURCES
99.001	Abrasive Blasting
99.002	Chromic Acid Anodizing
99.003	Comfort Cooling Towers
99.004	Commercial Sterilization Facilities
99.005	Decorative Chromium Electroplating
99.006	Electronics Manufacturing (except 99.011)
99.007	Hard Chromium Electroplating
99.008	Hospital Sterilization Facilities
99.009	Industrial Process Cooling Towers
99.010	Rocket Engine Test Firing
99.011	Semiconductor Manufacturing
99.012	Welding & Grinding
99.013	Electroplating/Plating (except Chrome - 99.002, 99.005 & 99.007)
99.014	Polystyrene Foam Products Manufacturing
99.015	Rubber Tire Manufacturing and Retreading
99.016	Polyurethane Foam Products Manufacturing
99.017	Leather Tanning
99.999	Other Miscellaneous Sources

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Appendix C -- Standard Emission Limit Units by Process

BACT/LAER Clearinghouse Process Code	NSPS Title	Suggested Emission Units
11.999	Electric Utility Steam Generators	Lb/MMBTU
11.999	Fossil Fuel-fired Steam Generators	Lb/MMBTU
15.999	Incinerators	gr/dscf corr to 12% CO_2
15.999	Stationary Gas Turbines	% at 15% O_2
21.004	Sewage Sludge Incineration	Lb/Ton of dry sludge input
30.002	Kraft Pulp Mills - Recovery Furnace	gr/dscf corr to 8% O_2 or ppm (by volume) corr to 8% O_2
	Kraft Pulp Mills - Smelt Dissolving Tanks	Lb/Ton BLS
	Kraft Pulp Mills - Lime Kiln	gr/dscf corr to 10% O_2 or ppm (by volume) corr to 10% O_2
	Kraft Pulp Mills - Digesters, Brown Stock Washers, Evaporators, Oxidation, Stripping System	ppm (by volume) corr to 10% O_2
41.002	Auto & Light Truck Sfc. Coating	Kg/1 (lb/Gal) applied coating solids
41.007	Flexible Vinyl & Urethane Coating & Printing	Kg/Kg/ (Lb/Lb) ink solids
41.008	Industrial Sfc. Coating: Large Appliances	Kg/1 (Lb/Gal) of coating solids applied
41.011	Metal Coil Sfc. Coating	Kg/l (Lb/Gal) coating applied solids
	Beverage Can Sfc. Coating	Kg/1 (Lb/Gal) coating applied solids
41.012	Sfc. Coating of Metal Furniture	Kg/1 (Lb/Gal) of coating solids applied
41.015	Plastic Parts for Business Machines Surface Coating	Kg/1 (Lb/Gal) coating solids applied

BACT/LAER Clearinghouse Process Code	NSPS Title	Suggested Emission Units
41.018	Pressure Sensitive Tape & Label Sfc. Coating	Kg/Kg (Lb/Lb) coating solids applied
41.999	Graphic Arts: Rotogravure Printing	% of total mass of VOC solvents & H_2O used
42.002	Bulk Gasoline Terminals	See Note #1
42.005/6	Storage Vessels for Petroleum	See Note #1
49.003	Petroleum Dry Cleaners	See Note #1
50.003	Petroleum Refineries - Crackers	Lb/1000 Lb or Lb/MMBTU or % by volume
	Petroleum Refineries - Claus Sulfur Recovery Units	% by volume
50.999	Petroleum Refineries - Flue Gas	gr/dscf (H_2S)
50.999	Equip. Leaks of VOC in Petroleum Refineries	See Note #1
	Equip. Leaks of VOC from Offshore Gas Processing Plants	See Note #1
61.009	Phosphate Fertilizer Industry	Lb/Ton
62.001	Ammonium Sulfate Mfg.	Lg/Ton ammonium sulfate prod.
62.014	Nitric Acid Plants	Lb/Ton
62.015	Sulfuric Acid Plants	Lb/Ton
64.999	Equip. Leaks of VOC - Synthetic Organic Chemical Mfg. Industry	See Note #1
65.000	Synthetic Fiber Production Facilities	Kg/Mega-gram (Lb/1000 Lb) solvent feed
66.999	Rubber Tire Mfg. Industry	% of VOC used
70.999	Grain Elevators	gr/dscf
82.001	Lead Acid Battery Mfg. Plants	gr/dscf or Lb/Ton lead feed

BACT/LAER Clearinghouse Process Code	NSPS Title	Suggested Emission Units
81.003	Ferroalloy Production Facilities	Lb/MW-H or % (volume basis)
81.004/6	Iron and Steel Plants	gr/dscf
82.005	Primary Aluminum Smelters	Lb/Ton
82.006	Primary Copper Smelters	gr/dscf
82.007	Primary Lead Smelters	gr/dscf or % (volume basis)
82.009	Primary Zinc Smelters	gr/dscf or % (volume basis)
82.011	Sec. Brass, Bronze, Ingot Plants	gr/dscf
82.013	Secondary Lead Smelters	gr/dscf
90.004	Hot-Mix Asphalt Plants	gr/dscf
90.011	Coal Preparation Plants	gr/dscf
90.016	Glass Mfg. Plants	Lb/Ton
90.019	Lime Mfg. Plants	Lb/Ton
90.021	Metallic Mineral Processing Plants	grams/dscm (gr/dscf)
90.024	Non-metallic Mineral Proc Plants	grams/dscm (gr/dscf)
90.026	Phosphate Rock Plants	Lb/Ton
90.033	Wool Fiberglass Insul Mfg. Plants	Lb/Ton glass pulled
90.034	Asphalt Process & Asphalt Roofing Mfg.	Kg/Mega-gram (Lb/1000 Lb) prod.

Note #1: Regulations involve process controls and/or modifications. No emission units stated.

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

Abbreviation	*Process or Descriptor*
INTERNAT	international
LAB	laboratory
LDOUT	loadout
LIQ	liquid
LT	light
MATL	material
MFG	manufacturing
MISC	miscellaneous
MODIF	modification
NAT	natural
NATL	national
POLL	pollutant/pollution
PREP	preparation
PROD	production
PWR	power
REC	recovery
RECIP	reciprocating
RECLAM	reclamation
REFIG	refrigeration
REFIN	refinery
REG	regular
REGEN	regenerator
RESID	residual
ROT	rotary
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	ton
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

Abbreviation	*Pollutant*
MC ACETATE	methyl cellusolve acetate
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

Abbreviation	*Pollutant*
TRS	total reduced sulfur
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

USER'S MANUAL FOR BLIS BBS

Appendix E -- Information on the OAQPS TTN
From the OAQPS TTN Brochure 12/91

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 Management, Emission Standards, Technical Support, and Stationary Source Compliance -- 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 a network of electronic bulletin boards developed and operated by OAQPS. The network provides information and technology exchange in different areas of air pollution control, 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 through the use of a modem and communications software. Your computer connects with a computer at EPA through the phone lines. 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 it?

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

Step 3 Call the network using your communications software:

(919) 541-5742 for a 1200 or 2400 bps modem
(919) 541-1447 for a 9600 bps modem

Step 4 Log on to the system and answer the questions on the screen, first about yourself, then about your computer. Press ENTER 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, keeping in mind that passwords are CaSe sensitive. After this, you will see notes and news. Press ENTER until you reach the main menu for *un*registered users. As a nonregistered user, you have 30 minutes to browse the menu options. To select an option, type the character within brackets < >.

Step 5 Select *Registration* and answer the questions. After confirming the information you have entered you will see the main menu for registered users. At this point you can select other options or exit the system. *Descriptions of OAQPS TTN Bulletin Board System* contains a brief description of the different bulletin boards available on the network. *System Utilities* contains various option, which are also available after you become a registered user.

<u>What's on the network?</u>

Eight bulletin boards are currently available on the network, with more to come.

OAQPS - Office of Air Quality Planning and Standards explains the structure and function of the four divisions that make up this office, including names and numbers of management staff.

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.

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.

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.

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.

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

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.

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

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

BLIS - 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.

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.

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!*** Eight different bulletin boards are up and running; more are on the way. ***It's readily accessible!*** Access the latest information whenever you need it.

(919) 541-5742 for a 1200, 2400, or 9600 bps modem

When can I use it?

24 hours a day, 7 days a week except Monday 8-12 a.m. 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 EST.

HOW TO USE OAQPS TTN

TOP MENU

From this menu, which you see as a registered user, you have access to any bulletin board system (BBS) 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.

You move through the system by selecting options off menus. To select an option, type the character specified in < > brackets. When your see <CR>, (for carriage return), press the ENTER or RETURN key. Also press ENTER 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 ENTER to resume scrolling.

EMAIL

Use Email to send a message (msg) to other users. They will receive it the next time they enter the network. Search the User Registry first, if necessary, to see if someone is registered or to verify the spelling of a name.

1 Select **Email** from the Top Menu or one of the main menus.
2 Type **L** to send mail.
3 Respond to the prompts:
   To: (Type the full name.)
   Subject: (Enter a topic heading.)
   Submit Prepared Msg Text (Y/N)? (Type **N** to enter your message directly on the screen, **Y** if your message is stored as an ASCII text file.)
4 After you enter your message, hit escape and select an option below by typing the appropriate letter.
   V to see your entire message again.
   E to edit the message by line.
   F to include a file within the message (see below).
   R to receive a note that the message was received.
   S to send the message.
   Q to quit without sending a message.
   H to get help.

To include a file within your message
Select **F** to send a file and respond to the prompts.

Enclose a file with this message (Y/N)? (Type Y.)
Enter 1-12 char. full file name: (Assign a new file name and extension to the file or use its existing name, for example, **MYUPLOAD.TXT.**)
Select from the following transfer protocols: (Select a protocol from the list, for example, **4** for XMODEM.)
File open, ready to receive (CTRL-X to abort). What you do here varies according to your communications software. If you have PROCOMM, press PAGEUP, select the protocol you selected earlier, in this example, **1** for XMODEM, and enter the path and file name, for example:
C:\HOME\NEWSTUFF.TXT.

If you have CROSSTALK, enter **XX** instead of pressing PAGEUP. When the transfer is complete, you can continue the message, send it, or quit without sending it.

To receive messages
When you enter the network, you are notified of any personal messages you have. You can view the messages now or later. To view them later, select **Email** from a menu and select **<R> Read your mail.**

SYSTEM UTILITIES MENU

You can select a number of utilities from this menu.

<S>ystem Information gives hardware and software information for the TTN.

<R>ecent Callers lists people who have recently accessed the system.

<Y> User Survey Results shows the results of the recent user survey.

<C>hange Terminal Config allows you to change your user profile.

<A>rchivers/Dearchivers contains programs to use for dearchiving compressed files.

<M> TTN User's Manual is a compressed file with detailed instructions on how to use the network. You must first download the file to your computer and then decompress it.

<Q> Change Profile/Address to update your contact information.

<T>ime Remaining shows when you logged on, how long you have been on this session, and the current time.

<W>ho else is on lists people currently using the system.

<L>eave SYSOP a Message to type a message to send to the SYSOP.

<P> Change Password to give yourself a new password.

<U>ser Registry lists all users. To see the list, select **<D>isplay/Download User Registry** and enter **P 1 USER.TXT**. Press **S** to stop the listing. to search for an individual, select **<U>ser Registry Search** and enter a name or city.

<H>elp Downloading/Uploading to get instructions for your specific communications software.

TRANSFERRING FILES

Download a file

1 Access the BBS containing the file you want to download, for example, **<E> CAAA.**

2 Select the category from which you want to download, for example, **<6> Title VI: Stratospheric Ozone**, then **<T> Title VI Text/Summaries.**

3 Once you see a list of files, note the name of the file you want to transfer.

4 Type **P** to select the protocol that allows the BBS to send a file and that your communications software supports. For example type **P 4** for XMODEM protocol. If you don't know which protocol to select, look in your communications software documentation. This protocol is used for all files you download for the remainder of your call, unless you change it with the P command. (To skip this step, see hint below.)

5 Type the name of the file you want to download. For example, **SUMM6.TXT.** If you can't remember the name of the file, type **L** to see the list of files again, then enter the file name. You will see an estimate of how much time it will take to transfer the file. You can stop the procedure by pressing the CONTROL and X keys together.

6 Select the protocol for your communications software, the same protocol you used before. Depending on the communications software you have, you follow different procedures. For example, if you have PROCOMM, press the PAGEDOWN key to see the protocol menu, select the protocol, in this example, **1** for XMODEM, and enter path and name of the file you want to create on your computer, for example, **C:\BBSDIR\BBSFILE.TXT.** The procedure indicates when the transfer is completed.

7 Now you can transfer another file or return to the menu.

Hint: Assign a default protocol to be used every time you download a file. Select **<C>hange Terminal Config** from the System Utilities Menu. Select **D - Set File Download Protocol.** Then choose a default protocol. Now whenever you download a file, simply enter the file name, such as **SUMM6.TXT.** You do not have to specify the **P** command first, except to change the default.

Decompress files

Files with the file name extension ARC or ZIP are compressed (archived) to save space and time when downloading. These files must be decompressed (unarchived) to save space and time when downloading. These files must be decompressed (unarchived) after downloading to be used.

1 Select **<S>ystems Utilities** from the Top Menu.

2 Select **<A>rchivers/Dearchivers** from the Systems Utilities Menu.

3 Download ARCE.COM, ARCE.DOC, DEARCH.TXT, and PKZ110.EXE. Do this step only one time for all files you need to decompress.

4 Download any ARC or ZIP file you want to decompress from any of the BBS's.

5 When you exit the network and return to DOS, create a new directory and copy the downloaded files to it. In this way, files you decompress are not mixed in with your other files.

6 For ARC files, types **ARCE** ***filename*** were ***filename*** is the name of an ARC file you want to decompress, for example, **ARCE PCRAMT1.ARC.**
For ZIP files, type **PKZ110** to decompress the PKZ110 file, which generates additional files. Then use the PKUNZIP command to decompress any of the ZIP files you downloaded, for example, **PKUNZIP CALINE3.ZIP.**

More information about dearchiving files is in DEARCH.TXT, one of the files you downloaded.

Upload a file

In some BBS's you can upload a file for general use. Enter the appropriate area and follow the instructions provided. The procedure is similar to downloading a file, except for minor differences. For example, in PROCOMM, press **PAGEUP** to upload a file (instead of PAGEDOWN) to download. In CROSSTALK, type **XX** (instead of RX).

For additional help and directions, select **<H>elp Downloading/Uploading** from the System Utilities Menu.

ON-LINE CONFERENCE

Select this option to communicate with other people on the network at the same time.

1 Select **<3> Join a Conference.**
2 Type **/w** to see who is on which line.
3 Type ***/s,n message*** to send someone a message, where ***n*** is that person's line number and ***message*** is your message. For example:
/s,1 Hi Jerry, let's talk! Meet me in the on-line conference area.
4 You see a message when Jerry enters the conference area. Now, whatever you type, he sees. Whatever he types, you see. Anyone else in the conference are also sees your exchange.
5 Type **/p*n*** to conduct a private conference, where ***n*** is the line number of the person with whom you want privacy, in this example, **/p,1.** That person also enters **/p,*n*** where ***n*** is your line number. If you are on line 3, Jerry types **/p,3.**
6 Type **/channel *n*** to include selected others in a conference, where ***n*** is a number from 1 to 40. Everyone included in the conference enters the same number. For example, you, Jerry, and others type **/channel 19** to conference on channel 19.
7 Type **/q** to leave the conference area.

PUBLIC MESSAGES

Use this feature to leave messages for public view in a particular BBS. You can relay new information for other people's use, present a problem you have that someone else may be able to resolve, or look through messages other people have left and responses they have received.

1 Access the BBS most appropriate for the message you want to leave.
2 Select **<P>ublic Messages** from the Main Menu. Now you can scan the topics of other people's messages, read messages other people have left, or leave your own.
3 To leave a message, type **L** and follow directions.

USER'S MANUAL FOR THE BLIS BBS

Appendix F -- Valid Values for Data Elements

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

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 Columbis, 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	IDaho	MonTana	Rhode Island
AlasKa	ILlinois	NEbraska	South Carolina
American Samoa	INdiana	NeVada	South Dakota
AriZona	IowA	New Hampshire	TeNnessee
ARkansas	KanSas	New Jersey	TexaS
CAlifornia	KentuckY	New Mexico	UTah
COlorado	LouisianA	New York	VermonT
ConnecTicut	MainE	North Carolina	Virgin Islands
DElaware	MarylanD	North Dakota	VirginiA
District of Columbia	MAssachusetts	OHio	WAshington
FLorida	MIchigan	OKlahoma	West Virginia
GeorgiA	MiNnesota	ORegon	WIsconsin
GUam	MiSsissippi	PennsylvaniA	WYoming
HawaiI	MissOuri	Puerto Rico	OTher 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	Acrylonitrile	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
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

POLLUTANT	ALTERNATE NAME	CAS NUMBER
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	Hydrocarbons	SEQ. 11
HCL	Hydrochloric Acid	7647-01-0
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

POLLUTANT	ALTERNATE NAME	CAS NUMBER
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
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

POLLUTANT	ALTERNATE NAME	CAS NUMBER
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

Appendix G - Examples of BLIS Standard Reports

Appendix F

REPORT DATE: 07/16/92 INDEX OF CONTROL TECHNOLOGY DETERMINATIONS PAGE 1

YEAR	COMPANY NAME	BLIS ID	PROCESS TYPE	PERMIT ISSUED	PROCESS DESCRIPTION
91	FORMOSA PLASTICS CORP.	TX-0225	29.000	01/23/90	FUGITIVES, PROCESS
			69.015		REGENERATOR, CO2
91	FORMOSA PLASTICS CORP.	TX-0227	29.000	01/23/90	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	01/23/90	FUGITIVE
			29.002		FUGITIVES FROM WASTEWATER
			40.000		VENTS, PROCESS
91	FORMOSA PLASTICS CORPORATION	TX-0228	29.000	01/23/90	FUGITIVES
			62.003		HEATER, MOLTEN SALT
			62.007		HCL ABSORBER
91	HOCKLEY RAILCAR, INC.	TX-0223	29.000	02/16/90	FUGITIVES
			40.000		PAINT BOOTHS, 2
			69.015		REGENERATION, CARBON
			99.001		BLASTER, SAND, 2
91	LAPORT CHEMICAL CORPORATION	TX-0226	29.000	05/31/90	FUGITIVE
			42.009		REFRIGERATOR UNIT
			49.000		DRIERS, 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	BLIS ID	PERMIT ISSUED	AGENCY	NAME OF CONTACT	TELEPHONE
PROCESS TYPE: 29.000 OTHER WASTE DISPOSAL (except 21 and 22)						
91	HOCKLEY RAILCAR, INC.	TX-0223	02/16/90	TEXAS AIR CONTROL BO	DAVID L. HOWELL	(512)-451-5711
91	FORMOSA PLASTICS CORPORATION	TX-0224	01/23/90	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
91	FORMOSA PLASTICS CORP.	TX-0225	01/23/90	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
91	LAPORT CHEMICAL CORPORATION	TX-0226	05/31/90	TEXAS AIR CONTROL BO	DONALD G. FINE	(512)-451-5711
91	FORMOSA PLASTICS CORP.	TX-0227	01/23/90	TEXAS AIR CONTROL BO	KAREN OLSEN	(512)-451-5711
91	FORMOSA PLASTICS CORPORATION	TX-0228	01/23/90	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
PROCESS TYPE: 29.002 Industrial Wastewater Treatment						
91	FORMOSA PLASTICS CORPORATION	TX-0224	01/23/90	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
PROCESS TYPE: 40.000 ORGANIC EVAPORATIVE LOSSES						
91	HOCKLEY RAILCAR, INC.	TX-0223	02/16/90	TEXAS AIR CONTROL BO	DAVID L. HOWELL	(512)-451-5711
91	FORMOSA PLASTICS CORPORATION	TX-0224	01/23/90	TEXAS AIR CONTROL BO	KAREN T. OLSEN	(512)-451-5711
PROCESS TYPE: 42.009 Volatile Organic Liquid Storage						
91	LAPORT CHEMICAL CORPORATION	TX-0226	05/31/90	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	05/31/90	TEXAS AIR CONTROL BO	DONALD G. FINE	(512)-451-5711
91	FORMOSA PLASTICS CORP.	TX-0227	01/23/90	TEXAS AIR CONTROL BO	KAREN OLSEN	(512)-451-5711
PROCESS TYPE: 49.999 Other Organic Evaporative Loss Sources						
91	LAPORT CHEMICAL CORPORATION	TX-0226	05/31/90	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	01/23/90	TEXAS AIR CONTROL BO	KAREN OLSEN	(512)-451-5711

Appendix H (next two pages)

DETAILED SOURCE LISTING (Part A)
BLIS ID No. TX-0034

DATE ENTERED/UPDATED:

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

MOORE COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
09/04/81
PERMIT NO. TX-346
/ /

DATE OF PERMIT ISSUANCE--

ESTIMATED START-UP DATE--

DETERMINATION MADE BY: HAMILTON CO-SOUTHWESTERN OH APCA
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

(214)-767-1594
(PHONE)

AIRS ID NO.

EPA ID NO.

BASIS PROCESSES SUBJECT TO THIS PERMIT EST % EFF	THROUGHPUT CAPACITY	POLLUTANT NAME	EMISSION LIMITS (PRIMARY) (STANDARDIZED) CTRL EQUIPMENT/PROCESS MODIFICATION RANKING INFORMATION
BOILER, PROCESS, 2	240.00 MMBTU/H		
PROCESS CODE 1.600 B/N SCC CODE 0.000		SO2 CAS NO. 7446-09-5	103.8700 LB/H 0.0000 SCRUB FUEL GAS & 0.7% S FUEL OIL
BACT 0.000		NOX CAS NO.	130.0000 LB/H 0.0000 LOW NOX BURNERS

NOTES:

DETAILED SOURCE LISTING (Part B)
BLIS ID No. TX-0034

DATE ENTERED/UPDATED:

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

MOORE COUNTY

PERMIT NO. TX-346
A PUBLIC HEARING WAS NOT HELD.

DETERMINATION MADE BY: HAMILTON CO-SOUTHWESTERN OH APCA
AGENCY CONTACT PERSON: JOHN BUNYAK PHONE # (214)-767-1594

SCHEDULING INFORMATION:

	ESTIMATED DATE	ACTUAL DATE
RECEIVED APPLICATION	/ /	/ /
CONTROL TECH. DETERMINATION	/ /	/ /
AIR QUALITY IMPACT ANALYSIS	/ /	/ /
OTHER IMPACT ANALYSIS	/ /	/ /
DRAFT PERMIT	/ /	/ /

	ESTIMATED DATE	ACTUAL DATE
PUBLIC NOTICE	/ /	/ /
PERMIT ISSUED	/ /	09/04/81
START CONSTRUCTION	/ /	/ /
START UP	/ /	/ /
COMPLIANCE VERIFICATION	/ /	/ /

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

COMPLIANCE WAS NOT VERIFIED.
COMPLIANCE METHOD (T/F):
STACK TEST: .F. OTHER TEST: .F.
INSPECTION: .F. CALCULATION: .F.
OTHER METHOD:

SO2

CAPITAL COSTS:	$	0.00
O & M COSTS:	$	0.00
ANNUALIZED COSTS:	$	0.00
COST EFFECTIVENESS ($/TON):		0.00

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

NOX

CAPITAL COSTS:	$	0.00
O & M COSTS:	$	0.00
ANNUALIZED COSTS:	$	0.00
COST EFFECTIVENESS ($/TON):		0.00

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

Scheduling Report

REPORT DATE: 07/20/92 BLIS SCHEDULING REPORT PA

COMPANY NAME/SITE LOCATION: FORMOSA PLASTICS CORP.
Hwy. 35 East
POINT COMFORT, TX 78375 CALHOUN COUNTY

PERMIT NO. 19198

DETERMINATION MADE BY: TEXAS AIR CONTROL BO
AGENCY CONTACT PERSON: KAREN T. OLSEN PHONE # (512)-451-5711

SCHEDULING INFORMATION:

	ESTIMATED DATE	ACTUAL DATE		ESTIMATED DATE	ACTUAL DATE
RECEIVED APPLICATION	02/02/87	02/02/87	PUBLIC NOTICE	06/02/88	06/02/88
CONTROL TECH. DETERMINATION	06/30/87	06/30/87	PERMIT ISSUED	01/23/90	01/23/90
AIR QUALITY IMPACT ANALYSIS	09/01/87	09/15/87	START CONSTRUCTION	12/12/91	12/12/91
OTHER IMPACT ANALYSIS	12/31/87	12/31/87	START UP	01/01/93	01/31/93
DRAFT PERMIT	04/01/88	04/01/88	COMPLIANCE VERIFICATION	04/15/93	04/01/93

PROCESS CODE	PROCESS CODE DESCRIPTION	PROCESS NAME
29.000	OTHER WASTE DISPOSAL (except 21 and 22)	FUGITIVES, PROCESS
69.015	Carbon Black Manufacturing	REGENERATOR, CO2

COMPANY NAME/SITE LOCATION: FORMOSA PLASTICS CORP.
Hwy. 35 East
POINT COMFORT, TX 78375 CALHOUN COUNTY

PERMIT NO. 19201

DETERMINATION MADE BY: TEXAS AIR CONTROL BO
AGENCY CONTACT PERSON: KAREN OLSEN PHONE # (512)-451-5711

SCHEDULING INFORMATION:

	ESTIMATED DATE	ACTUAL DATE		ESTIMATED DATE	ACTUAL DATE
RECEIVED APPLICATION	04/04/87	04/04/87	PUBLIC NOTICE	06/02/88	06/02/88
CONTROL TECH. DETERMINATION	07/31/87	07/31/87	PERMIT ISSUED	02/21/90	01/23/90
AIR QUALITY IMPACT ANALYSIS	09/15/87	09/15/87	START CONSTRUCTION	12/12/91	12/12/91
OTHER IMPACT ANALYSIS	12/15/87	01/01/88	START UP	01/01/93	12/31/92
DRAFT PERMIT	04/01/88	04/01/88	COMPLIANCE VERIFICATION	04/15/93	04/30/93

PROCESS CODE	PROCESS CODE DESCRIPTION	PROCESS NAME
29.000	OTHER WASTE DISPOSAL (except 21 and 22)	FUGITIVES, PROCESS
29.000	OTHER WASTE DISPOSAL (except 21 and 22)	FUGITIVES FROM WASTEWATER
49.000	ORGANIC EVAPORATIVE LOSSES (except 41 AND 42)	DRYER
50.999	Other Petroleum/Natural Gas Production & Refining Sources	TANKS, 7
70.007	Feed and Grain Handling, Storage And Processing (including *	SILOS, PELLET, 2
70.999	Other Food and Agricultural Products Sources	PELLET HANDLING

Freeform Data


```
BLIS ID        : TX-0223
SUFFIX         :
COMPANY        : HOCKLEY RAILCAR, INC.
ADDRESS        :
CITY           : HOCKLEY
STATE          : TX
COUNTY         : HARRIS
ZIP CODE       : 77546
EPA REGION     :          6
NEW/MODIFIED   : M
SOURCE SIZE    :          0
SOURCE UNIT    :
AGENCY CODE    : TX001
AGENCY NAME    : TEXAS AIR CONTROL BOARD
CONTACT        : DAVID L. HOWELL
PHONE          : (512)-451-5711
PERMIT #       : C-19134
REGION FILE # :
SIC            :
PUBLIC HEARING: .F.
AIRS ID        :
EPA ID         :
APPLICATION RECEIVED EST  : 01/01/87
APPLICATION RECEIVED ACT  : 01/01/87
CONTROL TECH DETERM EST   : 06/30/87
CONTROL TECH DETERM ACT   : 07/01/87
AIR QUALITY ANALYSIS EST  : 09/01/87
AIR QUALITY ANALYSIS ACT  : 09/01/87
OTHER IMPACT ANALYSIS EST : 12/31/87
OTHER IMPACT ANALYSIS ACT : 12/31/87
DRAFT PERMIT ISSUED EST   : 04/01/88
DRAFT PERMIT ISSUED ACT   : 04/01/88
COMPLIANCE VALIDATION EST : 04/15/93
COMPLIANCE VALIDATION ACT :   /  /
PUBLIC NOTICE EST         : 06/02/88
PUBLIC NOTICE ACT         : 06/02/88
START CONSTRUCTION EST    : 12/12/91
START CONSTRUCTION ACT    : 12/12/91
START UP EST              : 01/01/93
START UP ACT              : 01/01/93
FINAL PERMIT ISSUED EST   : 02/16/90
FINAL PERMIT ISSUED ACT   : 02/16/90
ENTRY DATE                : 05/31/91
LAST UPDATE               : 05/21/91
NOTES                     :
```

```
PROCESS              : PAINT BOOTHS, 2
PROCESS TYPE         :          40
SCC CODE             :
THROUGHPUT           :           0
THROUGHPUT UNIT      :
BOILER SIZE          :           0
COMPLIANCE VERIFIED  :  .F.
STACT TESTING        :  .F.
INSPECTIONS          :  .F.
CALCULATIONS         :  .F.
OTHER TESTING        :  .F.
OTHER TESTING METHOD :

    POLLUTANT                          : VOC
    CAS NUMBER                         :
    CONTROL EQUIPMENT                  : ACTIVATED CARBON BED, 2
    PROCESS MODIFICATION               :
    MANUFACTURER                       :
    MODEL                              :
    NUMBER OF OPTIONS CONSIDERED       :          0
    RANK OF OPTION SELECTED            :          0
    PRIMARY EMISSIONS                  :       16.8
    PRIMARY EMISSIONS UNIT             : T/YR
    BASIS                              : BACT
    PERCENT EFFICIENCY                 :         85
    CALCULATED EFFICIENCY              :          0
    ALTERNATE EMISSION                 :          0
    ATLERNATE EMISSION UNIT            :
    STANDARD EMISSION                  :          0
    STANDARD EMISSION UNIT             :
    BASE EMISSION                      :          0
    BASE EMISSION UNIT                 :
    EMMISSION TYPE                     :
    CAP COST OF CONTROL EQUIPMENT      :          0
    O/M COST OF CONTROL EQUIPMENT      :          0
    ANNUALIZED COST                    :          0
    COST EFFECTIVENESS                 :          0
    COST VERIFIED BY AGENCY            : .F.
    DOLLAR YEAR USED IN COST ESTIMATES :

PROCESS              : REGENERATION, CARBON
PROCESS TYPE         :        69.015
SCC CODE             :
THROUGHPUT           :           0
THROUGHPUT UNIT      :
BOILER SIZE          :           0
COMPLIANCE VERIFIED  :  .F.
STACT TESTING        :  .F.
INSPECTIONS          :  .F.
CALCULATIONS         :  .F.
OTHER TESTING        :  .F.
OTHER TESTING METHOD :
```

POLLUTANT	: VOC
CAS NUMBER	:
CONTROL EQUIPMENT	: BOILER
PROCESS MODIFICATION	:
MANUFACTURER	:
MODEL	:
NUMBER OF OPTIONS CONSIDERED	: 0
RANK OF OPTION SELECTED	: 0
PRIMARY EMISSIONS	: 1.3
PRIMARY EMISSIONS UNIT	: T/YR
BASIS	: BACT
PERCENT EFFICIENCY	: 0
CALCULATED EFFICIENCY	: 0
ALTERNATE EMISSION	: 0
ATLERNATE EMISSION UNIT	:
STANDARD EMISSION	: 0
STANDARD EMISSION UNIT	:
BASE EMISSION	: 0
BASE EMISSION UNIT	:
EMMISSION TYPE	:
CAP COST OF CONTROL EQUIPMENT	: 0
O/M COST OF CONTROL EQUIPMENT	: 0
ANNUALIZED COST	: 0
COST EFFECTIVENESS	: 0
COST VERIFIED BY AGENCY	: .F.
DOLLAR YEAR USED IN COST ESTIMATES	:

PROCESS	: BLASTER, SAND, 2
PROCESS TYPE	: 99.001
SCC CODE	:
THROUGHPUT	: 0
THROUGHPUT UNIT	:
BOILER SIZE	: 0
COMPLIANCE VERIFIED	: .F.
STACT TESTING	: .F.
INSPECTIONS	: .F.
CALCULATIONS	: .F.
OTHER TESTING	: .F.
OTHER TESTING METHOD	:

POLLUTANT	: PM
CAS NUMBER	:
CONTROL EQUIPMENT	: CARTRIDGE FILTER
PROCESS MODIFICATION	:
MANUFACTURER	:
MODEL	:
NUMBER OF OPTIONS CONSIDERED	: 0
RANK OF OPTION SELECTED	: 0
PRIMARY EMISSIONS	: 1.31
PRIMARY EMISSIONS UNIT	: T/YR
BASIS	: BACT
PERCENT EFFICIENCY	: 95
CALCULATED EFFICIENCY	: 0

ALTERNATE EMISSION	:	0
ATLERNATE EMISSION UNIT	:	
STANDARD EMISSION	:	0
STANDARD EMISSION UNIT	:	
BASE EMISSION	:	0
BASE EMISSION UNIT	:	
EMMISSION TYPE	:	
CAP COST OF CONTROL EQUIPMENT	:	0
O/M COST OF CONTROL EQUIPMENT	:	0
ANNUALIZED COST	:	0
COST EFFECTIVENESS	:	0
COST VERIFIED BY AGENCY	:	.F.
DOLLAR YEAR USED IN COST ESTIMATES	:	

PROCESS	:	FUGITIVES
PROCESS TYPE	:	29
SCC CODE	:	
THROUGHPUT	:	0
THROUGHPUT UNIT	:	
BOILER SIZE	:	0
COMPLIANCE VERIFIED	:	.F.
STACT TESTING	:	.F.
INSPECTIONS	:	.F.
CALCULATIONS	:	.F.
OTHER TESTING	:	.F.
OTHER TESTING METHOD	:	

POLLUTANT	:	VOC
CAS NUMBER	:	
CONTROL EQUIPMENT	:	
PROCESS MODIFICATION	:	
MANUFACTURER	:	
MODEL	:	
NUMBER OF OPTIONS CONSIDERED	:	0
RANK OF OPTION SELECTED	:	0
PRIMARY EMISSIONS	:	2.75
PRIMARY EMISSIONS UNIT	:	T/YR
BASIS	:	BACT
PERCENT EFFICIENCY	:	0
CALCULATED EFFICIENCY	:	0
ALTERNATE EMISSION	:	0
ATLERNATE EMISSION UNIT	:	
STANDARD EMISSION	:	0
STANDARD EMISSION UNIT	:	
BASE EMISSION	:	0
BASE EMISSION UNIT	:	
EMMISSION TYPE	:	
CAP COST OF CONTROL EQUIPMENT	:	0
O/M COST OF CONTROL EQUIPMENT	:	0
ANNUALIZED COST	:	0
COST EFFECTIVENESS	:	0
COST VERIFIED BY AGENCY	:	.F.
DOLLAR YEAR USED IN COST ESTIMATES	:	

Lotus/dBase data base structure

Field	Field Name	Type	Width	Dec
1	BLISID	Character	7	
2	SUFFIX	Character	2	
3	FACILITY	Character	50	
4	CITY	Character	30	
5	STATE	Character	2	
6	REGION	Numeric	2	
7	NEWMOD	Character	1	
8	PERMITNUM	Character	30	
9	REGIONFILE	Character	20	
10	AGCYNAME	Character	40	
11	CONTACT	Character	20	
12	PHONE	Character	14	
13	AIRSID	Character	20	
14	EPAID	Character	20	
15	SIC	Character	10	
16	PERMITDATE	Date	8	
17	LASTUPDATE	Date	8	
18	PROCESS	Character	50	
19	PROCTYPE	Numeric	6	3
20	THRUPUT	Numeric	13	2
21	THRUPUTUNT	Character	20	
22	COMPVERIFY	Logical	1	
23	SCC	Character	20	
24	POLLUTANT	Character	20	
25	CAS	Character	10	
26	STDEMISS	Numeric	13	4
27	STDUNIT	Character	20	
28	EQUIPMENT	Character	50	
29	PROCMODIF	Character	50	
30	CALCEFFIC	Numeric	7	3
31	COSTEFFECT	Numeric	10	2
32	DOLLARYEAR	Character	4	
33	BASIS	Character	12	

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA 453/B-92-012	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE User's Manual for the BLIS BBS		5. REPORT DATE 8/31/92
		6. PERFORMING ORGANIZATION CODE September 1992
7. AUTHOR(S) Joseph E. Steigerwald		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS Control Technology Center (MD-13) ESD, OAQPS U.S. EPA RTP, N.C. 27711		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO. 68-DO-0177
12. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency Office of Air Quality Planning and Standards RTP, N.C. 27711		13. TYPE OF REPORT AND PERIOD COVERED Final
		14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This document summarizes the functions of the RACT/BACT/LAER Clearinghouse Information System (BLIS) bulletin board system currently located in the OAQPS Technology Transfer Network (OAQPS TTN). The manual includes information on how to conduct a search of the BLIS database, how to view the data, and how to download data to the users computer.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Best Available Control Technology Lowest Available Emission Rate Bulletin Board System Technology Transfer Network Reasonable Available Control Technology New Source Review	Air Pollution Control	

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	20. SECURITY CLASS *(This page)* Unclassified	22. PRICE

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Give name(s) in conventional order *(John R. Doe, J. Robert Doe, etc.)*. List author's affiliation if it differs from the performing organization.

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Enter information not included elsewhere but useful, such as: Prepared in cooperation with, Translation of, Presented at conference of, To be published in, Supersedes, Supplements, etc.

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Include a brief *(200 words or less)* factual summary of the most significant information contained in the report. If the report contains a significant bibliography or literature survey, mention it here.

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