Toxic Chemical Release Inventory

Toxic Chemical Release Inventory System (TRIS)

Information Retrieval Users Guide

Office of Toxic Substances
U.S. ENVIRONMENTAL PROTECTION AGENCY

Printed on Recycled Paper

TABLE OF CONTENTS

1 INTRODUCTION 1- 1
1.1 What is SARA? 1- 3
1.2 What is TRIS? 1- 3
1.3 What Type of Information is Available in TRIS? 1- 3
1.4 How is Information Received? 1- 4
1.5 How is Information Prepared for Access? 1- 4
1.6 How Much Information is Available in TRIS? 1- 4
1.7 Who Can Access TRIS? 1- 5
1.8 TRIS Direct Access Users 1- 5
1.9 Access via "Other Means" 1- 6
1.10 System Administration 1- 6
1.11 TRIS User Support 1- 6
1.12 Special Requests 1- 7
1.13 Requests For Printed Material 1- 7
1.14 Answer All Questions 1- 8
1.15 NCC User Support 1- 8

2 ACCESS TO TRIS 2- 1
2.1 TSO Logon Procedure 2- 4
2.2 TSO Logoff Procedure 2- 8
2.3 CICS Logon Procedure 2- 9
2.4 CICS Logoff Procedure 2-13
2.5 Quick Logon Procedure 2-13
2.6 Quick Logoff Procedure 2-15

TABLE OF CONTENTS (Continued)

3 TRIS GENERAL FEATURES 3- 1
3.1 Operational Features 3- 3
3.2 Menu Operation 3- 3
3.3 Keyboard Operation 3- 3
3.4 Information Messages / Windows 3- 4
3.5 Online Help Feature 3- 4
3.6 TRIS Data Keys 3- 4
3.7 Document Control Number 3- 5
3.8 TRI Facility ID 3- 5
3.9 Searching Using Wildcard 3- 6
3.10 Searching Using Chemical Synonym 3- 6
3.11 Codes Used in TRI Data 3- 7

4 MAKING TRIS WORK FOR YOU 4- 1
4.1 Reporting Package and Form R 4- 3
4.2 Defining Your Data Search 4- 4
4.3 Different Types of Data Retrievals 4- 4
4.4 Data Retrieval using the Online Queries 4- 5
4.5 Data Retrieval using the Batch Reports 4- 5
4.6 Data Retrieval using the Data Offload 4- 6
4.7 Helpful Hints 4- 8

TABLE OF CONTENTS (Continued)

5 ONLINE QUERIES 5- 1
5.1 Facility Name Search 5- 4
5.2 City / County Search 5-12
5.3 CAS / Chemical Search 5-20
5.4 Alternate Facility Key Search 5-28
5.5 Submission Display 5-36
5.6 POTW / Offsite Search 5-40
5.7 Year-to-Year Release / Transfer Comparison 5-44
5.8 Historical Facility Information Search 5-46
5.9 Chemical Table Search 5-50

6 BATCH REPORTS 6- 1
6.1 Controlling Where and When Reports Print 6- 4
6.2 Recording the Job Number 6- 6
6.3 Geographic / Chemical Profile Report 6- 7
6.4 POTW / Off-Site Location Report 6- 9
6.5 Facility Profile Report 6-11
6.6 Form R Facsimile Report 6-13
6.7 Regional TRIS Submissions Report 6-15
6.8 Chemical / Geographic / SIC Code Report 6-17
6.9 Year-To-Year Release / Transfer Comparison 6-19
6.10 SAS Reports Menu 6-21
6.10.1 Facility Identification Data 6-22
6.10.2 TRI Chemicals 6-23
6.10.3 Total Environmental Releases 6-24

TABLE OF CONTENTS (Continued)

6.10.4 Air Emissions 6-25
6.10.5 Discharges to Water 6-27
6.10.6 Releases to Ground and Underground Injection Wells 6-28
6.10.7 Transport of Chemicals Wastes Off-site for Treatment or Disposal 6-29
6.10.8 Waste Treatment 6-31
6.10.9 Waste Minimization 6-32

7 DATA OFFLOAD 7- 1
7.1 IBM Sequential Data File 7- 7
7.2 Understanding the Printed Report 7- 8

8 TUTORIAL 8- 1
8.1 General Information 8- 5
8.2 Using the System 8- 6
8.3 Online Queries 8- 7
8.4 Batch Reports 8- 9
8.5 Data Offload 8-10
8.6 User Support 8-11

9 USER SUPPORT 9- 1
9.1 Questions and Suggestions 9- 4
9.2 Request Documentation 9- 5
9.3 Extract File Information 9- 6
9.4 Set Program Function Keys 9- 7

APPENDICES

APPENDIX A GLOSSARY
APPENDIX B SAMPLE BATCH REPORTS
APPENDIX C EPA REGIONS AND STATES
APPENDIX D FORM R
APPENDIX E MICRO-TO-MAINFRAME LINK
APPENDIX F KEYBOARD MAPPING
APPENDIX G REGIONAL ACCOUNT MANAGERS

TABLES

5-1 Facility Name Search - Facilities Screen 5-11

5-2 Facility Name Search - Submission & Chemical Screen 5-11

5-3 City / County Search - Facilities Screen 5-19

5-4 City / County Search - Submission & Chemical Screen 5-19

5-5 CAS / Chemical Search - Facilities Screen 5-27

5-6 CAS / Chemical Search - Submission & Chemical Screen 5-27

5-7 Alternate Facility Key Search - Facilities Screen 5-35

5-8 Alternate Facility Key Search - Submission & Chemical Screen 5-35

5-9 Submission Display 5-39

5-10 POTW / Offsite Search 5-43

5-11 Year-to-Year Release / Transfer Comparison 5-45

5-12 Historical Facility Search 5-49

5-13 Chemical Table Search 5-52

1 INTRODUCTION

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1 INTRODUCTION

1.1 What is SARA?

In 1986, Congress passed the Superfund Amendments and Reauthorization Act, or SARA. Title III of SARA, known as the Emergency Planning and Community Right-to-Know Act (EPCRA), mandates in Section 313, that an inventory of toxic chemicals released into the air, water, or land must be maintained by the Environmental Protection Agency (EPA). It also mandates that the EPA must make this information available to the public.

1.2 What is TRIS?

TRIS stands for the Toxic Chemical Release Inventory System. It is the computer system used by the Environmental Protection Agency to track the annual estimated release of toxic chemicals into the environment. It serves as a management tool used by the EPA to simplify the collection and organization of toxic chemical release data received from industries regulated under SARA.

1.3 What Type of Information is Available in TRIS?

TRIS contains information about the releases and transfers of over 300 different toxic chemicals. This includes information, such as, CAS Number and chemical name, company name, amount of the chemical released or transferred off-site, medium released into (air, water, land...), Standard Industrial Classification (SIC) code, activity and use of the toxic chemical, technical and public contacts, waste treatment information, and the locations to which chemicals are transferred.

1.4 How is Information Received?

Companies which must report under this rule complete EPA's Form R. Information contained on the Form R may be submitted by the reporting companies on magnetic tape or floppy disk. This information is then sent to the EPCRA Reporting Center in Washington, D.C.

1.5 How is Information Prepared for Access?

Form Rs are received at the EPCRA Reporting Center for processing. The information on each Form R is keyed by data entry personnel into the TRIS Data Entry System. The TRIS Data Entry System is a menu driven data entry and tracking system located on a PC local area network. If the information is submitted on floppy disk or magnetic tape, the information is simply electronically read into the TRIS Data Entry System. Once the data are entered, it is checked for accuracy against the submission. Then it is transferred to the IBM ES/9000 at EPA's National Computer Center (NCC) in Research Triangle Park, North Carolina.

1.6 How Much Information is Available in TRIS?

TRIS currently contains information for three reporting years; 1987, 1988, and 1989. Companies throughout the U.S. and its territories (District of Columbia, Guam, Puerto Rico, American Samoa, the U.S. Virgin Islands, and the Commonwealth of Northern Marianas Islands) submitted TRI Form Rs in the quantities shown on the following page.

Year	Companies	Submissions	Pounds*
1987	19,897	79,057	21 billion
1988	21,404	84,693	8.2 billion
1989	22,641	82,513	5.8 billion

* Note that changes in chemicals for which reporting is required, account for a substantial amount of the differences between years

The above figures are current on the date this document was produced. These statistics will change as TRIS is updated (i.e., new submissions added and existing submissions revised).

1.7 Who Can Access TRIS?

EPA (headquarters and regions), states and their contractors may access TRIS directly through the NCC IBM ES/9000 mainframe computer. The public may access toxic release inventory information via "other means" including microfiche at public libraries, through TOXNET at the National Library of Medicine, magnetic tape and other computer products from the National Technical Information Service (NTIS) or the U.S. Government Printing Office (GPO), and EPA's published national report (a summary of the data submitted).

1.8 TRIS Direct Access Users

Authorized users around the country may access the TRI database on the NCC's IBM ES/9000, using a direct connect 327x terminal or by using a terminal or PC connected to the mainframe via a modem. However, the user must have a NCC IBM User ID and a TRIS account to access the system. To obtain a User ID or TRIS account, contact your Regional Account Manager listed in Appendix G. A new user will need to become familiar with the mainframe access procedures, described in Section 2, Access to TRIS.

1.9 Access via "Other Means"

Although the public does not have direct access to the TRI database on NCC's IBM ES/9000, access is provided a number of ways, including: on microfiche at many public libraries, through TOXNET at the National Library of Medicine, on magnetic tape or other computer products from the National Technical Information Service (NTIS) or the U.S. Government Printing Office (GPO), and in EPA's published national report summarizing the data submitted.

1.10 System Administration

The Office of Toxic Substances (OTS), Information Management Division (IMD) has been given the responsibility to receive and process industry submissions as a result of Title III of the Superfund Amendments and Reauthorization Act (SARA).

The TRI System is administered and maintained by the Non-Confidential Systems Section (NCSS), Public Data Branch (PDB) that is within the Information Management Division (IMD) of OTS.

1.11 TRIS User Support

TRIS User Support is a team of dedicated professionals available to all TRIS users connected to the IBM ES/9000 accessing the EPA internal database. It is based at the EPA Headquarters in Washington, D.C. General questions about the ES/9000 machine (such as resetting passwords) should still be referred to NCC User Support. Answering questions, providing current updates on TRIS, and receiving feedback from users make up the backbone of TRIS User Support.

You can request assistance by:

1. Calling the TRIS User Support Telephone number: (202) 260-9419
2. Sending requests to the TRIS FAX number: (202) 260-4655
3. Sending requests to EPA MAIL address: TRIS.USER.SUPPORT or EPA74013
4. Using the TRIS Online User Support Function (see Section 9 of this document)

1.12 Special Requests

TRIS User Support will handle most special requests for ad hoc programming. Ad hoc requests can be produced for users who require unique or highly complex data searches that are not available through the TRIS menu driven system.

TRIS User Support can run complex reports but need detailed specifications from the user. It is very important to have all the necessary information. Specifications include search criteria, special calculations, and report or file format.

1.13 Requests For Printed Material

TRIS User Support handles requests for printed materials including:

- TRIS Information Retrieval Users Guide
- TRIS Quick Reference Card
- ADABAS File Definitions
- Updates on the latest enhancements
- GPO/NTIS Tape Specifications
- Extract File Specifications
- Training materials
- Newsletters
- NLM Tape Specifications

1.14 Answer All Questions

TRIS User Support will answer all kinds of questions including:

- Logon/logoff procedures specific to TRIS
- How to access TRIS
- Explanations of screens on the system
- How to find specific information in the system
- How to search the system online
- How to request a batch report (printed report)
- Explanations of error messages
- Discussions on Data Quality, Data Linkage, & Data Integration
- What to do if you find errors in TRIS data
- What is the status of data entry/how many submissions have been received
- Information on training schedules
- What types of training materials are available

1.15 NCC User Support

The National Computer Center (NCC) is one of the largest, most modern computer centers in the nation. One of its primary missions is to support the Environmental Protection Agency in applications, such as the TRIS database. NCC set up a User Communications Center to provide adequate support for the users of TRIS and other applications.

User Support through the User Communications Center is the primary point of contact between any TRIS end user and the NCC IBM facility. Your calls are screened by an experienced technician who will decide which NCC specialist or department can best handle your problem. Besides the User Communications Center located in Raleigh, North Carolina; Washington D.C. area users have support available to them through the Washington Information Center (WIC) Network Support Group.

The NCC User Support group handles problems and questions such as getting your password reset, communications problems (dialing out), and access to the IBM ES/9000.

The numbers to call for this support are:

Washington, D.C.	260-HELP
In North Carolina	(919)-541-7862
FTS	629-7862
Outside North Carolina	(800)-334-2405

For more information on the National Computer Center and its services, a manual entitled Guide to NCC Services is available. This is an excellent manual distributed by NCC. You may obtain a copy by calling NCC User Support. Users will need to supply their name, address, phone number, and User ID.

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2 ACCESS TO TRIS

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2 ACCESS TO TRIS

TRIS is stored on an IBM ES/9000 mainframe computer located at EPA's National Computer Center (NCC) in Research Triangle Park, North Carolina. To access TRIS, you must have the following:

- a computer terminal
- a mainframe user ID
- permission to use TRIS

If you do not have a mainframe user ID or access to TRIS, call TRIS User Support at (202) 260-9419 for the name and phone number of your Account Manager. All other mainframe computer questions may be directed to NCC User Support at:

FTS	629-7862
Inside North Carolina	(919) 541-7862
Outside North Carolina	(800) 334-2405

Your computer terminal may be hardwired (synchronous) or a microcomputer equipped with a dial-up modem. A microcomputer must run communications software like CROSSTALK or PROCOMM PLUS that can emulate a full-screen terminal. TRIS cannot be accessed by a TTY (teletype) terminal.

The following instructions describe how to access TRIS using a hardwired terminal. If your terminal is not hardwired to the NCC Mainframe, refer to the Guide to NCC Services (available from NCC User Support) for assistance with other communications methods.

2.1 TSO Logon Procedure

1) Turn on the hardwired terminal; the EPA Menu System screen (Figure 2-1) will appear. Type **TSO** and press **<ENTER>**.

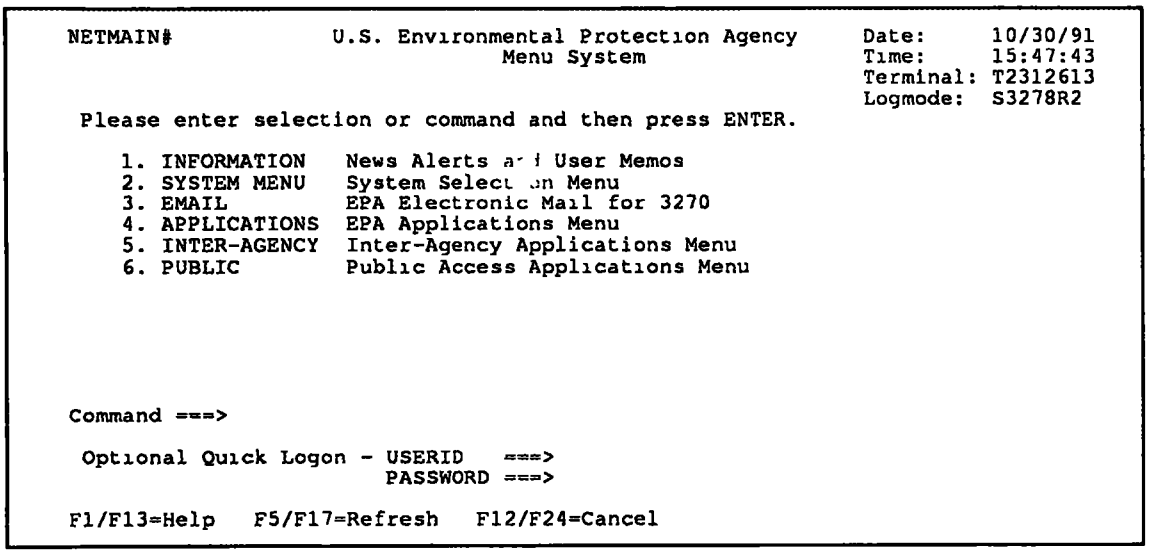

Figure 2-1

2) At the TSO/E Logon screen (Figure 2-2), type your three character ***USER ID*** and press **<TAB>** to advance to the PASSWORD field. Type your ***PASSWORD*** and press **<ENTER>**. (If previously supplied, ***PROCEDURE***, ***ACCT NMBR***, ***FIMAS***, and ***BIN NUMBER*** are entered automatically). See Appendix A for an explanation of these terms.

```
+---------------------------- EPA2 TSO/E LOGON -----------------------T2312611
PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow

    ENTER LOGON PARAMETERS BELOW:                  RACF LOGON PARAMETERS:

   USERID     ===> ABC

   PASSWORD   ===>                                 NEW PASSWORD ===>

   PROCEDURE  ===>                                 GROUP IDENT  ===>

   ACCT NMBR  ===>

   FIMAS      ===>                                 BIN NUMBER   ===>

   SIZE       ===>                                 SYSOUT DEST  ===>

   COMMAND    ===>

   ENTER A "S" BEFORE EACH OPTION DESIRED BELOW

         -NOMAIL          -NONOTICE          -NOSUMMARY          -CANCEL
```

Figure 2-2

3) A logon confirmation message (Figure 2-3) will appear followed by three asterisks. Press **<ENTER>** to continue.

```
ICH70001I ABC      LAST ACCESS AT 14:31:36 ON WEDNESDAY, MARCH 27, 1991
IKJ56455I ABC LOGON IN PROGRESS AT 14:32:39 ON MAY 14, 1991
ARC1020I DFHSM IS RECALLING FROM TAPE DSN=HLRTRID.TABLES, YOU MAY CANCEL WAIT
FOR RECALL BY PRESSING THE ATTENTION KEY.
ARC0612I VOLUME MOUNT ISSUED FOR RECALL OR RECOVER OF ABCTRID.TABLES
***
```

Figure 2-3

4) System News Alert messages (Figure 2-4) will appear followed by a READY prompt. Type **NATP** and press **<ENTER>**.

```
  91/05/09: POSSIBLE MISPLACED PRINT OUTPUT            - SEE NEWS ALERT4
  91/05/01: RACF VERSION 1.9                           - SEE NEWS ALERT1
  91/04/17: MEMORIAL DAY HOLIDAY SCHEDULE              - SEE NEWS ALERT3
  91/03/27: SUPPORT FOR ADAMINT PROGRAMS WILL END      - SEE NEWS ALERT9
  91/02/27: CHANGE IN ARCHIVAL OF DATA SETS (UPDATE)   - SEE NEWS ALERT2
READY
NATP
```

Figure 2-4

5) The NATURAL Logon Procedure screen (Figure 2-5) will appear. At the APPLICATION-ID prompt, type **TRISONLN** and press **<ENTER>**.

```
                    ***** NATURAL LOGON PROCEDURE *****

     ENTER APPLICATION-ID: TRISONLN       USER-ID: ABC


    FOR A LIST OF APPLICATIONS CURRENTLY AVAILABLE FOR SELECTION,
    ENTER '??' AS THE APPLICATION-ID.

    TO TERMINATE NATURAL, ENTER 'FIN' AS THE APPLICATION-ID.

    FOR MORE HELP, ENTER A '?' AS THE APPLICATION-ID.
```

Figure 2-5

6) The TRIS Welcome screen (Figure 2-6) will appear. Press **<ENTER>** to continue.

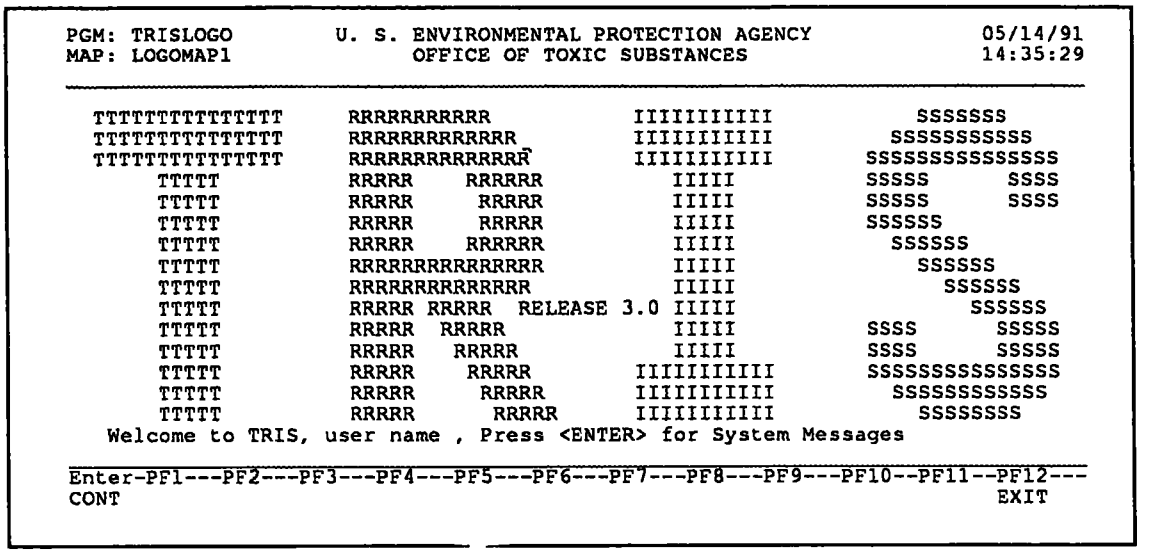

Figure 2-6

7) The TRIS System Message screen (Figure 2-7) will appear containing submission statistics and other important information. Press **<ENTER>** to continue.

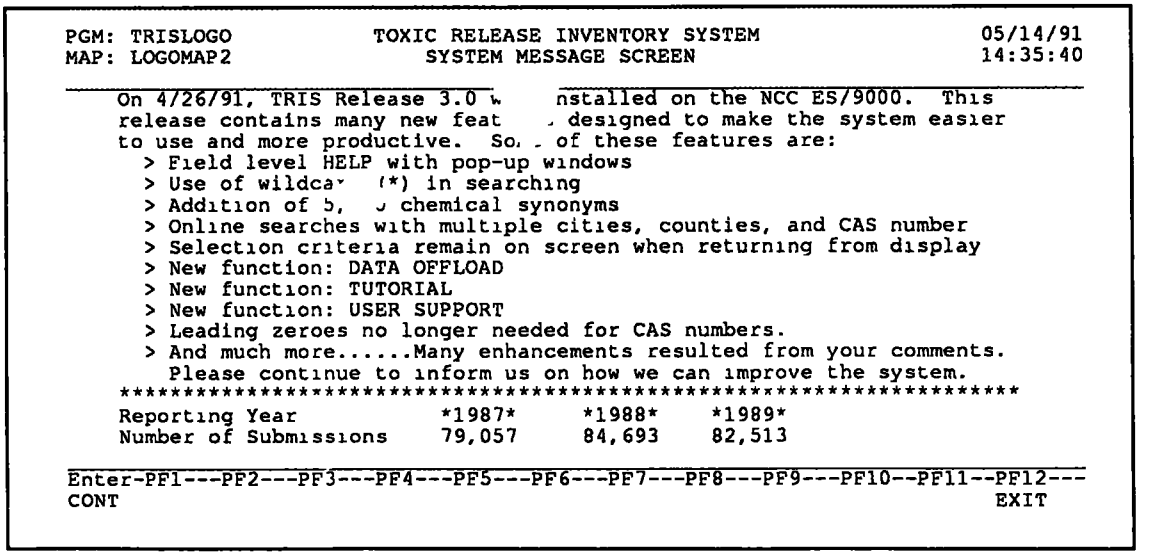

Figure 2-7

8) TRIS Data Retrieval menu (Figure 2-8) will appear. Options are discussed in detail in individual sections in this document. Please refer to:

- Section 5 Online Queries
- Section 6 Batch Reports
- Section 7 Data Offload
- Section 8 Tutorial
- Section 9 User Support

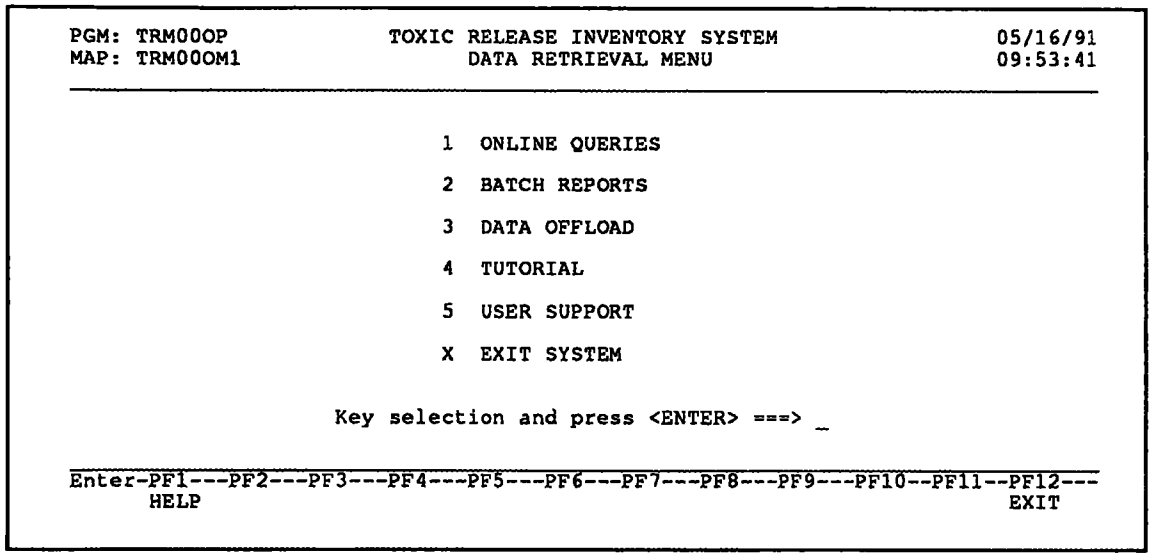

Figure 2-8

2.2 TSO Logoff Procedure

1) At the Data Retrieval menu, type **X** and press **<ENTER>**, or press **<PF12/24>**.

2) At the READY prompt, type **LOGOFF** and press **<ENTER>**.

3) The EPA Menu System screen (Figure 2-1) will be redisplayed.

4) To exit the EPA Menu System screen, turn off the hardwired terminal.

2.3 CICS Logon Procedure

1) Turn on the hardwired terminal. The EPA Menu System screen (Figure 2-9) will appear. Type **PCICS** and press **<ENTER>**.

```
NETMAIN#              U.S. Environmental Protection Agency      Date:     10/30/91
                                  Menu System                   Time:     15:47:43
                                                                Terminal: T2312613
                                                                Logmode:  S3278R2
 Please enter selection or command and then press ENTER.

    1. INFORMATION    News Alerts and User Memos
    2. SYSTEM MENU    System Selection Menu
    3. EMAIL          EPA Electronic Mail for 3270
    4. APPLICATIONS   EPA Applications Menu
    5. INTER-AGENCY   Inter-Agency Applications Menu
    6. PUBLIC         Public Access Applications Menu




Command ===> PCICS

 Optional Quick Logon - USERID   ===>
                        PASSWORD ===>

F1/F13=Help   F5/F17=Refresh   F12/F24=Cancel
```

Figure 2-9

2) At the prompts (Figure 2-10), type your ***USER ID*** and press **<TAB>**. Type your ***PASSWORD*** and press **<ENTER>**. (If previously supplied, ***ACCT ID***, ***FIMAS***, ***GROUP IDENT*** and ***BIN NUMBER*** are entered automatically.)

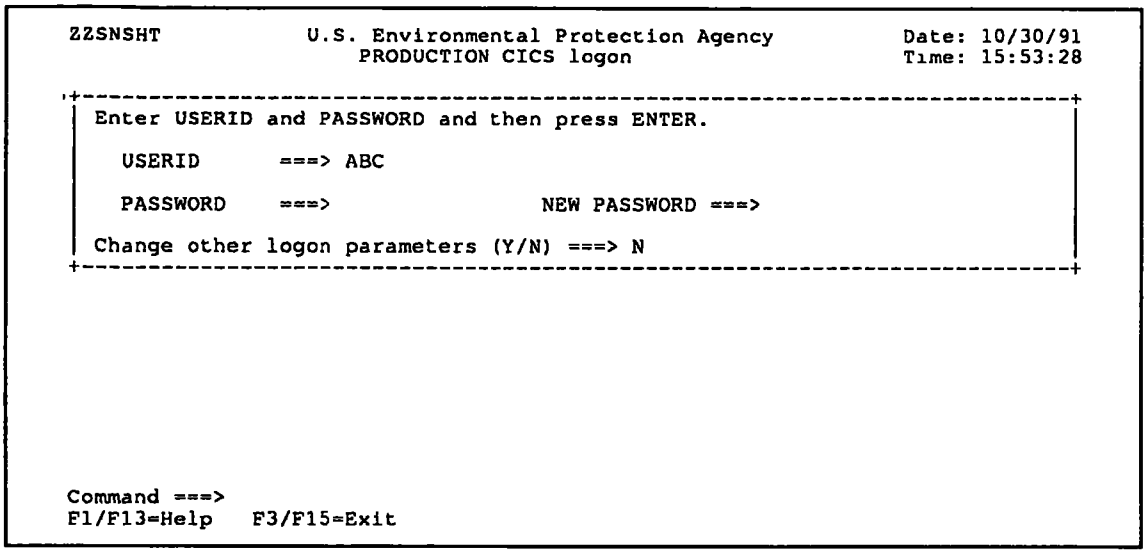

Figure 2-10

3) The CICS Sign-on Facility screen (Figure 2-11) will appear. Type **NATP** and press **<ENTER>**.

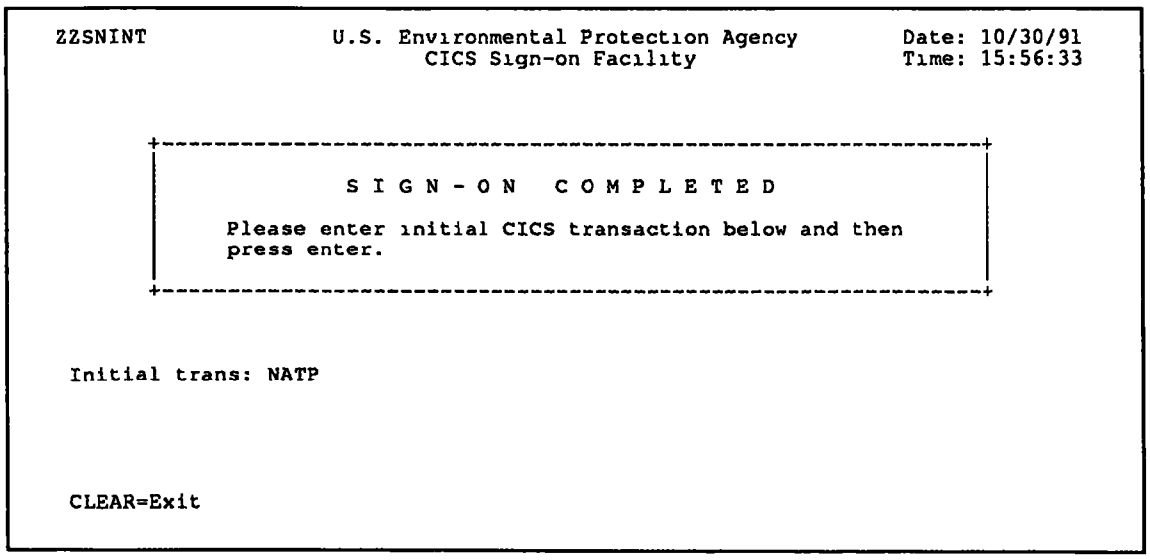

Figure 2-11

4) The NATURAL Logon Procedure screen (Figure 2-12) will appear. At the APPLICATION-ID prompt, type **TRISONLN** and press **<ENTER>**.

```
                    ***** NATURAL LOGON PROCEDURE *****

     ENTER APPLICATION-ID: TRISONLN       USER-ID: ABC


    FOR A LIST OF APPLICATIONS CURRENTLY AVAILABLE FOR SELECTION,
    ENTER '??' AS THE APPLICATION-ID.

    TO TERMINATE NATURAL, ENTER 'FIN' AS THE APPLICATION-ID.

    FOR MORE HELP, ENTER A '?' AS THE APPLICATION-ID.
```

Figure 2-12

5) The TRIS Welcome screen (Figure 2-13) will appear. Press **<ENTER>** to continue.

```
PGM: TRISLOGO          U. S. ENVIRONMENTAL PROTECTION AGENCY          05/30/91
MAP: LOGOMAP1               OFFICE OF TOXIC SUBSTANCES                16:24:57
--------------------------------------------------------------------------------

  TTTTTTTTTTTTTT     RRRRRRRRRR          IIIIIIIIII          SSSSSSS
  TTTTTTTTTTTTTT     RRRRRRRRRRR         IIIIIIIIII        SSSSSSSSSS
  TTTTTTTTTTTTTT     RRRRRRRRRRRR        IIIIIIIIII      SSSSSSSSSSSSS
       TTTTT         RRRRR    RRRRR         IIII        SSSSS      SSSS
       TTTTT         RRRRR     RRRR         IIII        SSSSS      SSSS
       TTTTT         RRRRR     RRRR         IIII        SSSSSS
       TTTTT         RRRRR    RRRRR         IIII          SSSSSS
       TTTTT         RRRRRRRRRRRRR          IIII            SSSSSS
       TTTTT         RRRRRRRRRRRR           IIII              SSSSSS
       TTTTT         RRRRR RRRRR  RELEASE 3.0 IIII                SSSSSS
       TTTTT         RRRRR  RRRRR           IIII        SSSS      SSSSS
       TTTTT         RRRRR   RRRRR          IIII        SSSS      SSSSS
       TTTTT         RRRRR    RRRRR      IIIIIIIIII     SSSSSSSSSSSSSS
       TTTTT         RRRRR     RRRR      IIIIIIIIII       SSSSSSSSS
       TTTTT         RRRRR      RRRR     IIIIIIIIII         SSSSSSS
  Welcome to TRIS, user name , Press <ENTER> for System Messages

--------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT                                                                    EXIT
```

Figure 2-13

6) The TRIS System Message screen (Figure 2-14) will appear containing submission statistics and other important information. Press **<ENTER>** to continue.

```
PGM: TRISLOGO          TOXIC RELEASE INVENTORY SYSTEM              05/14/91
MAP: LOGOMAP2              SYSTEM MESSAGE SCREEN                   14:35:40

    On 4/26/91, TRIS Release 3.0 was installed on the NCC ES/9000.  This
    release contains many new features designed to make the system easier
    to use and more productive.  Some of these features are:
      > Field level HELP with pop-up windows
      > Use of wildcard (*) in searching
      > Addition of 5,000 chemical synonyms
      > Online searches with multiple cities, counties, and CAS number
      > Selection criteria remain on screen when returning from display
      > New function: DATA OFFLOAD
      > New function: TUTORIAL
      > New function: USER SUPPORT
      > Leading zeroes no longer needed for CAS numbers.
      > And much more.....Many enhancements resulted from your comments.
        Please continue to inform us on how we can improve the system.
    ********************************************************************
    Reporting Year          *1987*     *1988*     *1989*
    Number of Submissions   79,057     84,693     82,513

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT                                                                    EXIT
```

Figure 2-14

7) The Data Retrieval menu (Figure 2-15) will appear. Options are discussed in detail in individual sections in this document. Please refer to:

- Section 5 Online Queries
- Section 6 Batch Reports
- Section 7 Data Offload
- Section 8 Tutorial
- Section 9 User Support

```
PGM: TRM000P           TOXIC RELEASE INVENTORY SYSTEM              05/16/91
MAP: TRM000M1              DATA RETRIEVAL MENU                     09:53:41

                              1  ONLINE QUERIES

                              2  BATCH REPORTS

                              3  DATA OFFLOAD

                              4  TUTORIAL

                              5  USER SUPPORT

                              X  EXIT SYSTEM

                      Key selection and press <ENTER> ===> _

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP                                                              EXIT
```

Figure 2-15

2.4 CICS Logoff Procedure

1) On the Data Retrieval menu, type **X** and press **<ENTER>**, or press **<PF12/24>**.

2) A blank screen will be displayed. Type **CSSF LOGOFF** and press **<ENTER>**.

3) The EPA Menu System screen (Figure 2-9) will be redisplayed.

4) To exit the EPA Menu System screen, turn off the hardwired terminal.

2.5 Quick Logon Procedure

1) Turn on the hardwired terminal; the EPA Menu System screen (Figure 2-16) will appear. Type **TRIS**, press **<TAB>**, and type your ***USER ID***, press **<TAB>** and type your ***PASSWORD***, and press **<ENTER>**. (If previously supplied, ***ACCT ID, FIMAS, GROUP IDENT,*** and ***BIN NUMBER***, are entered automatically).

```
NETMAIN#              U.S. Environmental Protection Agency      Date:      10/30/91
                                  Menu System                   Time:      15:47:43
                                                                Terminal:  T2312613
                                                                Logmode:   S3278R2
 Please enter selection or command and then press ENTER.

    1. INFORMATION    News Alerts and User Memos
    2. SYSTEM MENU    System Selection Menu
    3. EMAIL          EPA Electronic Mail for 3270
    4. APPLICATIONS   EPA Applications Menu
    5. INTER-AGENCY   Inter-Agency Applications Menu
    6. PUBLIC         Public Access Applications Menu




Command ===>

 Optional Quick Logon - USERID   ===>
                        PASSWORD ===>

F1/F13=Help   F5/F17=Refresh   F12/F24=Cancel
```

Figure 2-16

2) The TRIS Welcome screen (Figure 2-17) will appear. Press **<ENTER>** to continue.

```
PGM: TRISLOGO          U. S. ENVIRONMENTAL PROTECTION AGENCY          05/30/91
MAP: LOGOMAP1               OFFICE OF TOXIC SUBSTANCES                16:24:57

  TTTTTTTTTTTTTTT     RRRRRRRRRRR          IIIIIIIIIII          SSSSSSS
  TTTTTTTTTTTTTTT     RRRRRRRRRRRRR        IIIIIIIIIII        SSSSSSSSSSS
  TTTTTTTTTTTTTTT     RRRRRRRRRRRRRR       IIIIIIIIIII      SSSSSSSSSSSSSS
       TTTTT          RRRRR    RRRRRR         IIIII         SSSSS      SSSS
       TTTTT          RRRRR     RRRRR         IIIII         SSSSS      SSSS
       TTTTT          RRRRR     RRRRR         IIIII         SSSSSS
       TTTTT          RRRRR    RRRRRR         IIIII           SSSSSS
       TTTTT          RRRRRRRRRRRRRR          IIIII             SSSSSS
       TTTTT          RRRRRRRRRRRRRR          IIIII               SSSSSS
       TTTTT          RRRRR RRRRR  RELEASE 3.0 IIIII                SSSSSS
       TTTTT          RRRRR  RRRRR            IIIII         SSSS      SSSSS
       TTTTT          RRRRR   RRRRR           IIIII         SSSS      SSSSS
       TTTTT          RRRRR    RRRRR       IIIIIIIIIII      SSSSSSSSSSSSSS
       TTTTT          RRRRR     RRRRR      IIIIIIIIIII        SSSSSSSSSS
       TTTTT          RRRRR      RRRRR     IIIIIIIIIII          SSSSSSS
  Welcome to TRIS, user name , Press <ENTER> for System Messages

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT                                                                    EXIT
```

Figure 2-17

3) The TRIS System Message screen (Figure 2-18) will appear containing submission statistics and other important information. Press **<ENTER>** to continue.

```
PGM: TRISLOGO          TOXIC RELEASE INVENTORY SYSTEM                 05/14/91
MAP: LOGOMAP2              SYSTEM MESSAGE SCREEN                      14:35:40

    On 4/26/91, TRIS Release 3.0 was installed on the NCC ES/9000.  This
    release contains many new features designed to make the system easier
    to use and more productive.  Some of these features are:
      > Field level HELP with pop-up windows
      > Use of wildcard (*) in searching
      > Addition of 5,000 chemical synonyms
      > Online searches with multiple cities, counties, and CAS number
      > Selection criteria remain on screen when returning from display
      > New function: DATA OFFLOAD
      > New function: TUTORIAL
      > New function: USER SUPPORT
      > Leading zeroes no longer needed for CAS numbers.
      > And much more.....Many enhancements resulted from your comments.
        Please continue to inform us on how we can improve the system.
    **********************************************************************
    Reporting Year          *1987*     *1988*     *1989*
    Number of Submissions   79,057     84,693     82,513

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT                                                                    EXIT
```

Figure 2-18

7) The Data Retrieval menu (Figure 2-19) will appear. Options are discussed in detail in individual sections in this document. Please refer to:

- Section 5 Online Queries
- Section 6 Batch Reports
- Section 7 Data Offload
- Section 8 Tutorial
- Section 9 User Support

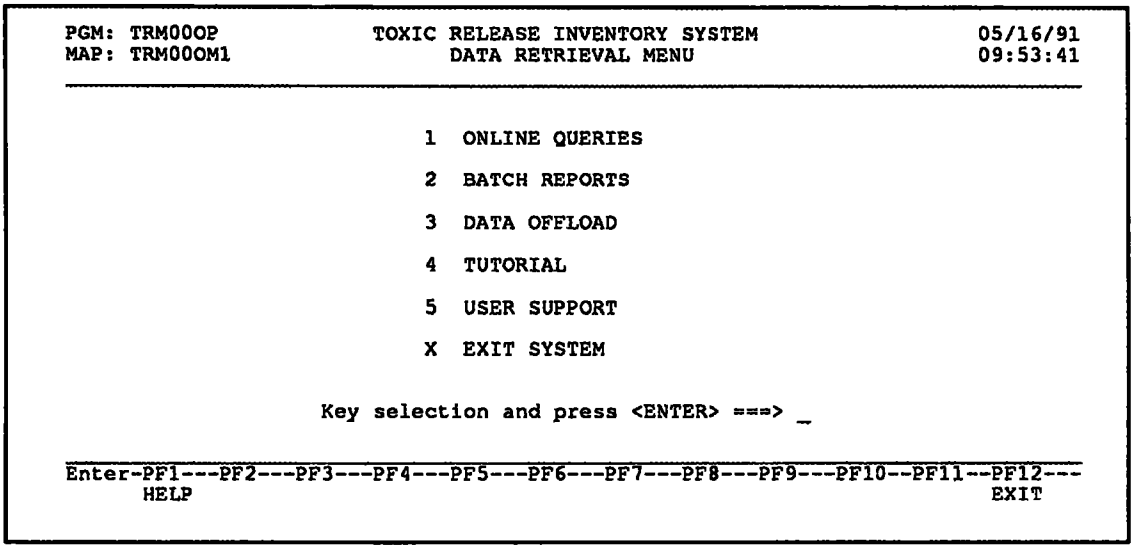

Figure 2-19

2.6 Quick Logoff Procedure

1) On the Data Retrieval menu, type **X** and press **<ENTER>**, or press **<PF12/24>**.

2) A blank screen will be displayed. Type **CSSF LOGOFF** and press **<ENTER>**.

3) The EPA Menu System screen (Figure 2-9) will be redisplayed.

4) To exit the EPA Menu System screen, turn off the hardwired terminal.

Note: The NCC is in the process of automating the Quick Logoff procedure. Implementation is expected in December 1991. The Information Retrieval Users Guide will be revised accordingly at the next opportunity.

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3 TRIS GENERAL FEATURES

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3 TRIS GENERAL FEATURES

3.1 Operational Features

There are features of the operation of TRIS that are common throughout the system. These features are explained in detail below.

3.2 Menu Operation

TRIS is a menu-driven system. Data are retrieved by selecting an option from a menu, entering requested variables where prompted, and pressing **<ENTER>** to move to the next screen.

3.3 Keyboard Operation

The keyboard utilizes either single keys or combinations of keys to enter variables and perform operations in TRIS. There are also specially designated keys or key combinations that are unique to TRIS; these are called Program Function or PF keys. PF keys in TRIS are used to move from screen-to-screen, to obtain help, or to exit from TRIS. PF keys are displayed at the bottom of each screen with a short translation indicating what function will be performed. Standard PF keys in TRIS are:

<PF1/13> = HELP	Invokes online help function
<PF2/14> = MAIN	Transfers to data retrieval main menu
<PF3/15> = PREV	Transfers to previous screen

Other PF keys are active for various functions on a screen-by-screen basis. See Appendix F for an explanation of keyboard mapping using assorted telecommunications packages.

3.4 Information Messages / Windows

TRIS protects the user from attempting to perform an operation not defined in the system, or from entering variables that the system does not recognize. If an invalid operation or selection is entered, the user receives an informational message at the top of the screen, or in a pop-up window, stating that the operation or variable is not valid. For certain variables required by TRIS, a pop-up window offering a selection of valid options is displayed.

3.5 Online Help Feature

TRIS contains an extensive online HELP feature. You may access HELP in several ways; for example: pressing **<PF1/PF13>**, placing a ? in the field and pressing **<ENTER>**, entering an incorrect value in a field, or leaving a required field empty. Each method instantly displays a pop-up window with HELP information. Detailed instructions on what is required or actual values in a "pick list" are provided.

3.6 TRIS Data Keys

Several data elements that correspond to parts of Form R, are designated as data keys. These keys allow users to search and retrieve data from the database. One of the most important keys is the facility name. Other data keys include, but are not limited to the state, county, city, and ZIP Code of the facility. Two special keys, described in detail below, are the Document Control Number and TRI Facility ID.

3.7 Document Control Number

The Document Control Number (DCN) is a unique identification number assigned to each Form R submission as it is received by EPA. The DCN is used to help locate documents after they have been physically stored; help track the status of processing for each submission document; and link other correspondence received from the submitter. The format for the DCN is:

Positions	Length	Description
1 - 2	2	Document Type (always '13')
3 - 4	2	Reporting Year
5 - 12	8	Eight Digit Sequence Number
13 - 13	1	Check Digit
14 - 15	2	State Abbreviation

Example:

Submission Type	Reporting Year	Sequence Number	Check Digit	State
13	87	00000101	1	MD

3.8 TRI Facility ID

It is necessary to track submissions from specific facilities from one reporting year to the next in a reliable manner. The TRIS database uses a unique identifier constructed initially using parts of the facility name, street address, and ZIP code. This technique is comparable to the method that some subscription systems, i.e., magazine subscriptions, used to identify subscribers. The unique identifier used in TRIS is called the TRI Facility ID. This identifier is assigned with the first Form R submitted by a facility.

The 15 character TRI Facility ID is constructed as follows:

Position	Contents
1 - 5	First 5 numbers of ZIP Code
6 - 10	First 5 consonants of name
11 - 15	First 5 letters or numbers of a street address

Example:

Waste Disposal Inc.
100 Main Street
Anywhere, State 99887

ZIP Code	Name	Street Address
99887	WSTDS	100MA

It is important to note that if a facility changes its name or the U.S. Post Office assigns a new ZIP Code, its TRI Facility ID will not change. The TRI Facility ID identifies a facility based on physical location.

3.9 Searching Using Wildcard

The wildcard notation, *, is used in many standard software packages to search for random values. This feature is also available in TRIS. By entering the beginning portion of a search string and attaching the wildcard notation, *, a range of values is found. For example, to obtain a list of all Du Pont facilities, the correct search criteria would be **Du Pont***.

3.10 Searching Using Chemical Synonym

TRIS allows searching by chemical synonyms in addition to the chemical names printed in the Toxic Chemical Release Inventory Reporting Package and Federal Register.

Approximately 5,000 synonyms are available. Most TRI chemicals have one or more synonyms. This option eliminates the time consuming task of entering lengthy CAS registered names. For example, a synonym name of the chemical temponitrin is *tempo*.

3.11 Codes Used in TRI Data

Codes are used in TRIS to represent TRI data elements. There are two types of codes used:

1) Standard codes used by industry
2) Codes unique to TRIS

There are two standard codes used by government, business and industry to represent information that is used commonly throughout related industries, the Standard Industrial Classification (SIC) code and the Dun and Bradstreet (D&B or DUNS) number. The SIC code is used to classify business establishments by specific activities that are performed at a single physical location. The first two digits of a four-digit SIC code define a major business sector and the last two digits denote a facility's specialty within the major sector. The SIC Code classification system is managed by the Office of Management and Budget. The DUNS number is a unique number issued to businesses by Dun and Bradstreet, a large accounting and financial reporting firm. Because the DUNS Number is a unique number, it is used in TRIS so that data from other sources may be linked to TRIS.

Note for ad hoc users: Codes unique to TRIS are codes designated by EPA to standardize and abbreviate TRIS data. For example, the maximum amount of the chemical on site at any time during the calendar year (question III.4 on Form R) is represented by codes 01-11. These codes correspond to designated ranges of pounds described in the Reporting Package. For example, code 01 corresponds to the range of 0-99 pounds. For more information, refer to the Toxic Chemical Release Inventory Reporting Package.

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4 MAKING TRIS WORK FOR YOU

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4 MAKING TRIS WORK FOR YOU

4.1 Reporting Package and Form R

A critical element in making the TRIS database work effectively and efficiently is an understanding of the annual Toxic Chemical Release Inventory Reporting Package. The TRIS database *is* the collection and storage of Form R data *on* the computer. The annual Reporting Package contains, but is not limited to, the following:

- Form R
- Detailed instructions for preparing Form R
- Example of a properly prepared Form R
- Codes for Form R
- Common errors found on Form R reports
- Threshold determinations
- Chemical specific issues
- Policy directives
- Section 313 document request form

All users are encouraged to request the latest copy of the Reporting Package from their Regional Section 313 Coordinator or send your request to:

Section 313 Document Distribution Center
P.O. Box 12505
Cincinnati, OH 45212

4.2 Defining Your Data Search

TRIS currently contains data from over 246,000 submissions, each representing one Form R, and from more than 25,000 facilities over three (3) reporting years (1987 through 1989). Before beginning a retrieval session on the TRIS database, you should have a definite plan in mind as to what information you want to find and how to go about retrieving that information. The following sections are intended to help you understand the different types of retrievals that are available.

4.3 Different Types of Data Retrievals

In determining what type of data retrieval to perform, the user should ask how do I want to view and/or use the information? There are three different ways to retrieve data from the TRI menu-driven system:

- Online Searches
- Batch Reports
- Data Offload

A general overview, along with reasons for choosing each type of data retrieval, is presented in the following sections. Detailed instructions for performing these data retrievals can be found in Sections 5 through 7.

4.4 Data Retrieval using the Online Queries

Online data searches are fast and display the information directly back to the screen. These are the easiest ways to obtain data from the database if you only need a small amount of data. Some online searches will only display a maximum of 100 facilities or submissions. In these cases you are requested to narrow the search by supplying additional selection criteria. As discussed in Section 1, an extensive Help feature is available which displays detailed instructions or presents "pick lists" wherever the user needs to enter search criteria. A full discussion of online queries comprise Section 5 of this manual.

The general circumstances for using an online search include:

- Search and display data for a specific facility
- Search and display data for a specific submission (i.e., chemical) from a facility
- Search and display data for facilities or submissions that use a specific chemical
- Compare the releases/transfers for a facility across all reporting years
- Search and display Historical Information concerning a facility

4.5 Data Retrieval using the Batch Reports

A second type of data retrieval is accomplished through batch, or offline print, reports. We recommend that you use this method when you need a printed report or search a large volume of data. Batch jobs run in the 'background,' meaning that once you have submitted the job, you can continue to work on something else without having to wait for the search to be completed.

This will help you to keep working, rather than tying up your terminal for long periods of time while the job is being executed or printed. This function is very similar to the online queries, but is designed for your obtaining somewhat large volumes of information in printed format. A full discussion of batch reports comprises Section 6 of this manual.

The general circumstances for using a batch report include:

- Search and print data for a geographic area
- Search and print data for a specific chemical
- Search and print data for a specific SIC Code
- Compare the releases/transfers for a geographic area and/or chemical across all reporting years
- Print data concerning a specific facility

4.6 Data Retrieval using the Data Offload

The third type of data retrieval is performed using the Data Offload function. The Data Offload was created in response to numerous user requests for "extracts" of the TRIS data. These extract files are used by different program offices and projects to compare, analyze, and summarize TRI data. Extract files are usually used as input to other computer software. The Data Offload enables the user to create a customized extract file from the TRIS database. The user must first supply geographic and/or chemical search criteria, then choose any combination of TRI data elements. A computer program is automatically constructed and executed, transferring data onto a mainframe sequential (extract) file.

The Data Offload function alleviates the user from performing the following:

- Coding a NATURAL program in the TRISH ad hoc library
- Coding the corresponding Job Control Language (JCL)
- Submitting the job to execute

The extract file can then be transferred to a Personnel Computer (PC) or Local Area Network (LAN); or used with other mainframe software. Simultaneously, a second file is generated that can be used to define a dBASE database reflecting the extract file. A detailed report also is produced describing the content of the extract file. A full discussion of the data offload comprise Section 7 of this manual.

To transfer the extract file from the Mainframe to a PC, the PC used must have:

- Communications program installed
- Connection to the Mainframe

Instructions for transferring files between Mainframe and PC can be found in The Guide to NCC Services, chapter entitled "Micro-to-Mainframe Link" (included in Appendix E).

4.7 Helpful Hints

Obtain a copy of the Toxic Chemical Release Inventory Reporting Package and Form R, and become familiar with the TRIS data.

Obtain a copy of The Guide to NCC Services from NCC User Support. It provides excellent information regarding accessing the IBM ES/9000 and transferring files between mainframe and micro computers.

Have a copy of the Information Retrieval Users Guide handy when performing searches.

Use the **HELP** feature throughout the menu-driven system.

Use the **WILDCARD** feature, *, when searching by facility name.

Use the **CHEMICAL SYNONYM** if you don't know the official chemical name.

Contact **TRIS User Support**. Their job is to assist you!

5 ONLINE QUERIES

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5 ONLINE QUERIES

FUNCTION: Use the Online Queries to quickly search and display information directly on your screen from the database. There are currently nine (9) online searches available. Online queries are done primarily to search and display information for a specific facility or chemical or submission (Form R). Additional queries are available to compare releases/transfers across all years for a facility, display historical information, and display applicable chemicals/synonyms/compounds names.

ACCESS: Select option **1** from the Data Retrieval menu. The Online Queries Menu screen (Figure 5-1) will appear.

```
PGM: TRQ000P            TOXIC RELEASE INVENTORY SYSTEM              03/22/91
MAP: TRQ000M1                ONLINE QUERIES MENU                    15:15:45

 1  FACILITY NAME SEARCH                    7  YEAR-TO-YEAR COMPARISON
 2  CITY / COUNTY SEARCH                    8  HISTORICAL FACILITY INFORMATION
 3  CAS / CHEMICAL SEARCH                   9  CHEMICAL TABLE SEARCH
 4  ALTERNATE FACILITY KEY SEARCH          10  Future Use
 5  SUBMISSION DISPLAY                     11  Future Use
 6  POTW / OFF-SITE SEARCH                 12  Future Use

                  Key selection and press <ENTER> ===> _

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV             RPTS
```

Figure 5-1

1) To select a specific search, type the ***CORRESPONDING NUMBER*** at the prompt and press **<ENTER>**.

5.1 Facility Name Search

FUNCTION: Use the Facility Name Search to display information about facilities and their submissions if you have the facility name, or some beginning portion. By entering a facility name without the wildcard, *, you will search for an exact match. By entering a beginning portion of name with the wildcard, *, you will search for facilities with like names. For example:

Du Pont Antioch	searches for facilities that exactly match
Du Pont*	searches for facilities beginning with "Du Pont"

Note that the Reporting Year is required and only the first fifteen (15) characters of a facility name can be entered. In addition to facility name, the search can be further limited by supplying one or more of the following:

- EPA Region Code
- State Code
- Five digit ZIP Code
- CAS Number
- Chemical/Synonym/Compound

After a search of the database, the names of facilities that meet the search criteria are displayed with their TRI Facility IDs and number of submissions for the applicable Reporting Year. From this screen, the user is given several options based upon Program Function (PF) keys, to display selected information.

ACCESS: Select option **1** from the Online Queries menu. The Facility Name Search screen (Figure 5-2) will appear.

```
PGM: TRQ01OP            TOXIC RELEASE INVENTORY SYSTEM              04/02/91
MAP: TRQ01OM1                 FACILITY NAME SEARCH                  13:50:56

 REQUIRED          REPORTING YEAR....> 1989

                    FACILITY NAME....> du pont c*_____

 OPTIONAL                  REGION....> __

                            STATE....> __

                         ZIP CODE....> _____

                       CAS NUMBER....> _________
                            -- OR --
             CHEMICAL/CATEGORY NAME....> ____________________________________
                     Key selection criteria and press <ENTER>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-2

1) Type a **REPORTING YEAR.** This is a required field. In this example, Reporting Year '1989' is used.

2) Type a **FACILITY NAME** (or range using the wildcard, *). This is a required field. In this example, 'Du Pont C*' is used. Either upper or lower case letters can be used. The following optional fields may be entered to narrow the search: **REGION, STATE, ZIP CODE,** and **CAS NUMBER** or **CHEMICAL/SYNONYM/CATEGORY NAME.** In this example, none of these optional fields have been entered. Press **<ENTER>** to begin the search.

A list of facilities meeting the search (Figure 5-3) will appear. The search criteria used are displayed at the top of the screen. If the list is longer than one screen, press **<PF7/19>** to page backward and **<PF8/20>** to page forward. In addition to the facility name, the TRI Facility ID and the number of submissions received from the facility for that Reporting Year are displayed on each line.

```
PGM: TRQ01ON3              TOXIC RELEASE INVENTORY SYSTEM              05/16/91
MAP: TRS90OMA                        FACILITIES                        14:26:47
 YEAR: 1989        FACILITY NAME: DU PONT C*


MARK  FACILITY NAME                                          TRI ID           # SUBM
----  ------------------------------------------------------ ---------------  ------
  X   DU PONT C&P HEALING SPRINGS                            27239DPNTCRT1BO    3
  _   DU PONT C&P TOLEDO                                     43612DPNTC710MA    2
  _   DU PONT CAMDEN PLANT                                   29020DPNTMPODRA    9
  _   DU PONT CHAMBERS WORKS                                 08023DPNTCRT130    54
  _   DU PONT CHATTANOOGA SITE                               37415DPNTC4501A    5
  _   DU PONT CHRISTINA LAB                                  19801DPNTC501CH    1
  _   DU PONT CLINTON PLANT                                  52730DPNTCHIGHW    1
  _   DU PONT COOPER RIVER SITE                              29411DPNTCCYPRE    11
  _   DU PONT CORPUS CHRISTI PLANT                           78362DPNTCHIGHW    7
  _
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS  -PAGE +PAGE FACIL DCNS  RELTR COORD
```

Figure 5-3

3) To obtain more information about a particular facility, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF9/21>**. The Facility Information screen (Figure 5-4) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS90OMB                 FACILITY INFORMATION                      14:27:37
FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989

STREET: RT #1 BOX 102
CITY  : DENTON
COUNTY: DAVIDSON
STATE : NC       ZIP: 27239

MAILING NAME/ADDRESS:
NAME  : SAME AS ABOVE
STREET:
CITY  :
STATE :          ZIP:

PRIMARY SIC CODE:
ASSIGNED DUNS   : 039129697          PARENT DUNS: 001315704
ASSIGNED EPA ID : NCD000475608       PARENT CO. : DUPONT
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                     DCNS
```

Figure 5-4

4) To display Latitude and Longitude coordinates, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF12/24>**. The Facility Latitude / Longitude screen (Figure 5-5) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3              TOXIC RELEASE INVENTORY SYSTEM              05/16/91
MAP: TRS90OMD        FACILITY LATITUDE / LONGITUDE COORDINATES          14:28:36

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


                      FACILITY LATITUDE  : +0353645
                      FACILITY LONGITUDE : -0801036


                   ZIP CENTROID LATITUDE  : +0353800
                   ZIP CENTROID LONGITUDE : -0800606


                   EPA ASSIGNED LATITUDE  :
                   EPA ASSIGNED LONGITUDE :



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                      DCNS
```

Figure 5-5

5) To display the total amount of Releases and Transfers reporting by a facility for that Reporting Year, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF11/23>**. The Facility Releases and Transfers screen (Figure 5-6) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3           TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS90OMC           FACILITY RELEASES AND TRANSFERS                14:28:25

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


RELEASES
  FUGITIVE AIR:          11,300              These amounts are the totals
  STACK AIR    :          32,600              for all submissions for this
  WATER        :                              facility and Reporting Year.
  UNDERGROUND  :
  LAND         :
TOTAL RELEASES:          43,900

TRANSFERS
  POTW         :
  OFF-SITE     :
TOTAL TRANSFER:


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                      DCNS
```

Figure 5-6

Releases include five types: Fugitive Air, Stack Air, Water, Underground, and Land. Transfers include two types: Publicly Owned Treatment Works (POTW) and Other Offsite Locations.

6) To display Document Control Numbers and Chemical Names, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF10/22>**. The Submissions and Chemicals screen (Figure 5-7) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMA               SUBMISSIONS AND CHEMICALS                     14:28:06

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


MARK  DOC CNTL NUM           CHEMICAL NAME
----  --------------------   ------------------------------------------------
  X    13-89-03000421-8-NC   AMMONIA
  _    13-89-03000422-0-NC   FORMALDEHYDE
  _    13-89-03000423-2-NC   METHANOL
  _      -  -         - -
  _      -  -         - -
  _      -  -         - -
  _      -  -         - -
  _      -  -         - -
  _      -  -         - -
  _      -  -         - -
  _      -  -         - -


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU CNTCT RPTS  -PAGE +PAGE TREAT WASTE RELTR USES
```

Figure 5-7

7) To display Waste Treatment Methods and Efficiency data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF9/21>**. The Submission Waste Treatment Information screen (Figure 5-8) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMC         SUBMISSION WASTE TREATMENT INFORMATION              14:29:03

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA
            WASTE TREATMENT METHODS AND EFFICIENCY  1   OF  1
WASTESTREAM   TREATMENT     RANGE OF      SEQUENTIAL     TREATMENT     OPERATING
   CODE        METHOD     INFLUENT CONC   TREATMENT    EFFICIENCY/NA    DATA
    W           R03            1                          90.00    /       N
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-8

8) To display Waste Minimization data, type an X before the DCN in the column labeled 'MARK,' and press **<PF10/22>**. The Submission Waste Minimization Information screen (Figure 5-9) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OMD      SUBMISSION WASTE MINIMIZATION INFORMATION           14:29:16

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

WASTE MINIMIZATION DATA
  TYPE OF MODIFICATION   : NA
  CURRENT REPORTING YEAR:
  PRIOR REPORTING YEAR   :
  PERCENT CHANGE         :
  INDEX                  :
  REASON FOR ACTION      : NA

MAXIMUM AMOUNT ON SITE: 1,000 TO 9,999 LBS.


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-9

9) To display Release and Transfer data, type an X before the DCN in the column labeled 'MARK,' and press **<PF11/23>**. The Submission Releases and Transfers screen (Figure 5-10) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OME          SUBMISSION RELEASES AND TRANSFERS               14:29:27

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA

RELEASES                                REPORTING FOR: AN ENTIRE FACILITY
  FUGITIVE AIR:              300
  STACK AIR   :            3,600
  WATER       :
  UNDERGROUND :
  LAND        :
TOTAL RELEASES:            3,900

TRANSFERS
  POTW        :
  OFF-SITE    :
TOTAL TRANSFER:

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-10

10) To display Activity and Uses data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF12/24>**. The Submission Activity and Uses Information screen (Figure 5-11) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OMF      SUBMISSION ACTIVITY AND USES INFORMATION            14:29:35

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

ACTIVITY AND USES:
 ANCILLARY OR OTHER USE




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-11

11) To display Contact data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF5/17>**. The Submission Contact Information screen (Figure 5-12) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM               06/14/91
MAP: TRS91OMB             SUBMISSION CONTACT INFORMATION               13:28:04

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC


CHEMICAL NAME: AMMONIA


TECHNICAL CONTACT: G. L. KISER
            PHONE: 609/540-2666


   PUBLIC CONTACT: C. A. CREMEANS
            PHONE: 704/869-4571



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-12

The following Tables show PF Keys and corresponding functions for the Facility Name Search.

Facility Name Search Facilities Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Facility data	FACIL	PF9/21
DCN/chemical data	DCNS	PF10/22
Release/transfer data	RELTR	PF11/23
Latitude/longitude data	COORD	PF12/24

Table 5-1

Facility Name Search Submissions and Chemicals Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Contact name/phone data	CNTCT	PF5/17
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Treatment data	TREAT	PF9/21
Waste minimization data	WASTE	PF10/22
Release/transfer data	RELTR	PF11/23
Activity and use data	USES	PF12/24

Table 5-2

5.2 City / County Search

FUNCTION: Use the City / County Search to display information about facilities and their submissions if you have the facility city or county name, or just the beginning letter of the city / county name. If you enter an incomplete or invalid city/county name, a pop-up window will appear listing cities or counties beginning with the same first letter. For example, in Virginia:

Richmond	searches for facilities in this city
Ricmond	activates a pop-up window for all cities beginning with 'R' You can then select the correct spelling from the window and search for facilities in this city.

Note that the Reporting Year and State are required and only city or county can be entered, but not both. In addition to facility city / county name, the search can be further limited by supplying one or more of the following:

- Facility Name or range using the wildcard, *
- CAS Number
- Chemical/Synonym/Compound

After a search of the database, the names of facilities that meet the search criteria are displayed with their TRI Facility IDs and number of submissions for the applicable Reporting Year. From this screen, the user is given several options, based upon Program Function (PF) keys, to display selected information.

ACCESS: Select option **2** from the Online Queries menu. The City / County Search screen (Figure 5-13) will appear.

```
PGM: TRQ02OP            TOXIC RELEASE INVENTORY SYSTEM              04/05/91
MAP: TRQ02OM1                CITY / COUNTY SEARCH                   15:01:46

REQUIRED        REPORTING YEAR.......> 1989
                FACILITY STATE.......> NC

  FACILITY CITY.........>          --OR--          FACILITY COUNTY......>
  ____________________________                     DAVIDSON____________________
  ____________________________                     ____________________________
  ____________________________                     ____________________________
  ____________________________                     ____________________________
  ____________________________                     ____________________________

 OPTIONAL       FACILITY NAME.........> ________________

                CAS NUMBER............> _________
                  --OR--
                CHEMICAL/CATEGORY.....> ____________________________________

                   Key selection criteria and press <ENTER>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-13

1) Type **REPORTING YEAR.** This is a required field. In this example, Reporting Year '1989' is used.

2) Type **STATE.** This is also required. Here, 'NC' is used.

3) Type either **FACILITY CITY** or **FACILITY COUNTY.** In this example, the county 'DAVIDSON' is used.

4) To further limit your search, optional fields may be used. Use **<TAB>** to advance to the **FACILITY NAME** and **CAS NUMBER** or **CHEMICAL/SYNONYM/CATEGORY NAME** fields and enter the corresponding information if desired. In this example, none of these optional fields are used. Press **<ENTER>** to begin your search.

A list of facilities meeting the search (Figure 5-14) will appear. The search criteria appear at the top of the screen. If the list is longer than one screen, press **<PF7/19>** to page backward and **<PF8/20>** to page forward. In addition to the facility name, the TRI Facility ID and the number of submissions received from the facility for that Reporting Year are displayed on each line.

```
PGM: TRQ02ON2              TOXIC RELEASE INVENTORY SYSTEM              06/12/91
MAP: TRS90OMA                        FACILITIES                        15:27:26
 YEAR: 1989      STATE: NC       COUNTY: DAVIDSON


MARK  FACILITY NAME                                          TRI ID            # SUBM
----  ----------------------------------------------------   ---------------   ------
  _   CAROLINA SEATING CO.                                   27263CRLNS101LI     1
  _   COBLE DAIRY PRODUCTS                                   27292CBLDR707NO     2
  _   COUNCILL CRAFTSMEN #1                                  27239CNCLBPOBOX     5
  _   DIXIE DINING ROOM DIV.                                 27292DXFRNNCHUR     5
  _   DIXIE FURNITURE CO. INC.                               27292DXFRN411SS     5
  _   DIXIE FURNITURE CO.                                    27299DXFRNOLDLI     6
  X   DU PONT C&P HEALING SPRINGS                            27239DPNTCRT1BO     3
  _   DURACELL USA                                           27292DRCLL305NE     5
  _   FOAM TECH INC.                                         27292FMTCH117CE     1
  _   HEKMAN FURNITURE CO.                                   27292HKMNF37PIC     1
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU NEXT  RPTS  -PAGE +PAGE FACIL DCNS  RELTR COORD
```

Figure 5-14

5) To obtain more information about a particular facility, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF9/21>**. The Facility Information screen (Figure 5-15) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3            TOXIC RELEASE INVENTORY SYSTEM                05/16/91
MAP: TRS90OMB                 FACILITY INFORMATION                     14:27:37
FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989

STREET: RT #1 BOX 102
CITY  : DENTON
COUNTY: DAVIDSON
STATE : NC        ZIP: 27239

MAILING NAME/ADDRESS:
NAME  : SAME AS ABOVE
STREET:
CITY  :
STATE :           ZIP:

PRIMARY SIC CODE:
ASSIGNED DUNS    : 039129697          PARENT DUNS: 001315704
ASSIGNED EPA ID : NCD000475608        PARENT CO. : DUPONT
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                     DCNS
```

Figure 5-15

6) To display Latitude and Longitude coordinates, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF12/24>**. The Facility Latitude / Longitude screen (Figure 5-16) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3              TOXIC RELEASE INVENTORY SYSTEM              05/16/91
MAP: TRS90OMD        FACILITY LATITUDE / LONGITUDE COORDINATES          14:28:36

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


                     FACILITY LATITUDE  : +0353645
                     FACILITY LONGITUDE : -0801036


                  ZIP CENTROID LATITUDE  : +0353800
                  ZIP CENTROID LONGITUDE : -0800606


                  EPA ASSIGNED LATITUDE  :
                  EPA ASSIGNED LONGITUDE :



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV  QMENU        RPTS                      DCNS
```

Figure 5-16

7) To display the total amount of Releases and Transfers reported by a facility for that Reporting Year, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF11/23>**. The Facility Releases and Transfers screen (Figure 5-17) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS90OMC            FACILITY RELEASES AND TRANSFERS                14:28:25

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


RELEASES
  FUGITIVE AIR:            11,300              These amounts are the totals
  STACK AIR   :            32,600              for all submissions for this
  WATER       :                                facility and Reporting Year.
  UNDERGROUND :
  LAND        :
TOTAL RELEASES:            43,900

TRANSFERS
  POTW        :
  OFF-SITE    :
TOTAL TRANSFER:


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV  QMENU        RPTS                      DCNS
```

Figure 5-17

Releases include five types: Fugitive Air, Stack Air, Water, Underground, and Land. Transfers include two types: Publicly Owned Treatment Works (POTW) and Other Offsite Locations.

8) To display Document Control Numbers and Chemical Names, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF10/22>**. The Submissions and Chemicals screen (Figure 5-18) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OMA               SUBMISSIONS AND CHEMICALS                    14:28:06

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO        REPORTING YEAR: 1989

MARK  DOC CNTL NUM           CHEMICAL NAME
----  --------------------   ----------------------------------------------------
  X    13-89-03000421-8-NC   AMMONIA
  _    13-89-03000422-0-NC   FORMALDEHYDE
  _    13-89-03000423-2-NC   METHANOL
  _      -  -          -  -
  _      -  -          -  -
  _      -  -          -  -
  _      -  -          -  -
  _      -  -          -  -
  _      -  -          -  -
  _      -  -          -  -

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU CNTCT RPTS  -PAGE +PAGE TREAT WASTE RELTR USES
```

Figure 5-18

9) To display Waste Treatment Methods and Efficiency data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF9/21>**. The Submission Waste Treatment Information screen (Figure 5-19) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                   05/16/91
MAP: TRS91OMC       SUBMISSION WASTE TREATMENT INFORMATION               14:29:03

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO        REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA
            WASTE TREATMENT METHODS AND EFFICIENCY  1   OF  1
WASTESTREAM   TREATMENT     RANGE OF      SEQUENTIAL     TREATMENT     OPERATING
   CODE        METHOD     INFLUENT CONC   TREATMENT    EFFICIENCY/NA    DATA
    W           R03            1                          90.00    /       N
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /
                                                                   /

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-19

10) To display Waste Minimization data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF10/22>**. The Submission Waste Minimization Information screen (Figure 5-20) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMD      SUBMISSION WASTE MINIMIZATION INFORMATION             14:29:16

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

WASTE MINIMIZATION DATA
  TYPE OF MODIFICATION  : NA
  CURRENT REPORTING YEAR:
  PRIOR REPORTING YEAR  :
  PERCENT CHANGE        :
  INDEX                 :
  REASON FOR ACTION     : NA

MAXIMUM AMOUNT ON SITE: 1,000 TO 9,999 LBS.


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-20

11) To display Release and Transfer data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF11/23>**. The Submission Releases and Transfers screen (Figure 5-21) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OME          SUBMISSION RELEASES AND TRANSFERS                14:29:27

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA

RELEASES                               REPORTING FOR: AN ENTIRE FACILITY
  FUGITIVE AIR:              300
  STACK AIR   :            3,600
  WATER       :
  UNDERGROUND :
  LAND        :
TOTAL RELEASES:            3,900

TRANSFERS
  POTW        :
  OFF-SITE    :
TOTAL TRANSFER:

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-21

12) To display Activity and Uses data, type an X before the DCN in the column labeled 'MARK,' and press **<PF12/24>**. The Submission Activity and Uses Information screen (Figure 5-22) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OMF      SUBMISSION ACTIVITY AND USES INFORMATION            14:29:35

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

ACTIVITY AND USES:
 ANCILLARY OR OTHER USE




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-22

13) To display Contact data, type an X before the DCN in the column labeled 'MARK,' and press **<PF5/17>**. The Submission Contact Information (Figure 5-23) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                 06/14/91
MAP: TRS91OMB             SUBMISSION CONTACT INFORMATION                 13:28:04

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC


CHEMICAL NAME: AMMONIA


TECHNICAL CONTACT: G. L. KISER
            PHONE: 609/540-2666


   PUBLIC CONTACT: C. A. CREMEANS
            PHONE: 704/869-4571




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-23

The following Tables show PF Keys and corresponding functions for the City / County Search.

City / County Search Facilities Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Facility data	FACIL	PF9/21
DCN/chemical data	DCNS	PF10/22
Release/transfer data	RELTR	PF11/23
Latitude/longitude data	COORD	PF12/24

Table 5-3

City / County Search Submissions and Chemicals Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Contact name/phone data	CNTCT	PF5/17
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Treatment data	TREAT	PF9/21
Waste minimization data	WASTE	PF10/22
Release/transfer data	RELTR	PF11/23
Activity and use data	USES	PF12/24

Table 5-4

5.3 CAS / Chemical Search

FUNCTION: Use the CAS Number / Chemical Name Search to display information about facilities and their submissions if you have the CAS Number(s) or the chemical/synonym/category name(s). Leading zeroes are not necessary when typing CAS Number(s). If you enter an incomplete or invalid chemical/synonym/category name, a pop-up window will appear listing names that begin with the same first letters. For example:

Formaldehyde searches for facilities releasing this chemical

Form or **Form*** activates a pop-up window for names starting with 'form' You can then select the correct spelling from the window and search for facilities with at least one submission reporting releases for this chemical.

Note that the Reporting Year is required and only the first forty (40) characters of a chemical/synonym/category name can be entered. In addition to CAS Number and chemical/synonym/category name, the search can be further limited by supplying one or more of the following:

- EPA Region Code
- State Code
- Five digit ZIP Code

After a search of the database, the names of facilities that meet the search criteria are displayed with their TRI Facility IDs and number of submissions for the applicable Reporting Year. From this screen, the user is given several options, based upon Program Function (PF) keys, to display selected information.

ACCESS: Select option 3 from the Online Queries menu. The CAS Number / Chemical Name Search screen (Figure 5-24) will appear.

```
PGM: TRQ03OP            TOXIC RELEASE INVENTORY SYSTEM                 05/13/91
MAP: TRQ03OM1          CAS NUMBER / CHEMICAL NAME SEARCH               13:51:06
REQUIRED
                  REPORTING YEAR...> 1989

  CAS NUMBER....>      --OR--            CHEMICAL/CATEGORY NAME....>
    _________                        FORMALDEHYDE_____________________________
    _________                        ________________________________________
    _________                        ________________________________________
    _________                        ________________________________________
    _________                        ________________________________________

 OPTIONAL                REGION....> 04
                         STATE.....> NC
                           --OR--
                         ZIP CODE..> _____

                    Key selection criteria and press <ENTER>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-24

1) Type a **REPORTING YEAR.** This is a required field. In this example, Reporting Year '1989' is used.

2) Type a **CAS NUMBER** or **CHEMICAL/SYNONYM/CATEGORY NAME** (or range using the wildcard, *). One of these is required. It is not necessary to type leading zeros in CAS Numbers. In this example, 'FORMALDEHYDE' is used. Either upper or lower case letters can be used. The following optional fields may be entered to narrow the search: **REGION, STATE,** and **ZIP CODE.** In this example, Region '04' and State 'NC' have been entered. Press **<ENTER>** to begin the search.

A list of facilities meeting the search (Figure 5-25) will appear. The search criteria used are displayed at the top of the screen. If the list is longer than one screen, press **<PF7/19>** to page backward and **<PF8/20>** to page forward. In addition to the facility name, the TRI Facility ID and the number of submissions received from the facility for that Reporting Year are displayed on each line.

```
PGM: TRQ03OP                TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ03OMA                        FACILITIES                         10:08:59

 YEAR: 1989      REGION: 04      STATE: NC
 CHEMICAL: FORMALDEHYDE



MARK  FACILITY NAME (** not in alphabetical order **)   TRI ID           # SUBM
----  ------------------------------------------------  ---------------  ------
  X   DU PONT C&P HEALING SPRINGS                       27239DPNTCRT1BO    3
  _   EASCO HAND TOOLS INC.                            28053SCHND1228I    11
  _   MONSANTO CO.                                     28301MNSNTCEDAR    6
  _   ICI RAYCA                                        28120RYCCH235TU    8
  _   CUSTOMADE CHEMICALS INC.                         28217CSTMD4401S    1
  _   KOLORTEX CORP.                                   28208KLRTX2900H    3
  _   SYNTHRON INC.                                    28655SYNTHAMHER    3
  _   WEYERHAEUSER CO.                                 28621WYRHSRT3OF    1
  _   WEIMAN CO.                                       27316WMNC POBOX    14

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS  -PAGE +PAGE FACIL DCNS  RELTR COORD
```

Figure 5-25

3) To obtain more information about a particular facility, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF9/21>**. The Facility Information screen (Figure 5-26) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS90OMB                 FACILITY INFORMATION                      14:27:37

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989

STREET: RT #1 BOX 102
CITY  : DENTON
COUNTY: DAVIDSON
STATE : NC       ZIP: 27239

MAILING NAME/ADDRESS:
NAME  : SAME AS ABOVE
STREET:
CITY  :
STATE :          ZIP:

PRIMARY SIC CODE:
ASSIGNED DUNS   : 039129697          PARENT DUNS: 001315704
ASSIGNED EPA ID : NCD000475608       PARENT CO. : DUPONT

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                    DCNS
```

Figure 5-26

4) To display Latitude and Longitude coordinates, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF12/24>**. The Facility Latitude / Longitude screen (Figure 5-27) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3              TOXIC RELEASE INVENTORY SYSTEM              05/16/91
MAP: TRS90OMD        FACILITY LATITUDE / LONGITUDE COORDINATES          14:28:36

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


                     FACILITY LATITUDE  : +0353645
                     FACILITY LONGITUDE : -0801036


                 ZIP CENTROID LATITUDE  : +0353800
                 ZIP CENTROID LONGITUDE : -0800606


                 EPA ASSIGNED LATITUDE  :
                 EPA ASSIGNED LONGITUDE :



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                      DCNS
```

Figure 5-27

5) To display the total amount of Releases and Transfers reporting by a facility for that Reporting Year, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF11/23>**. The Facility Releases and Transfers screen (Figure 5-28) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3            TOXIC RELEASE INVENTORY SYSTEM                05/16/91
MAP: TRS90OMC            FACILITY RELEASES AND TRANSFERS               14:28:25

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


RELEASES
  FUGITIVE AIR:            11,300          These amounts are the totals
  STACK AIR   :            32,600          for all submissions for this
  WATER       :                            facility and reporting year.
  UNDERGROUND :
  LAND        :
TOTAL RELEASES:            43,900

TRANSFERS
  POTW        :
  OFF-SITE    :
TOTAL TRANSFER:


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                      DCNS
```

Figure 5-28

Releases include five types: Fugitive Air, Stack Air, Water, Underground, and Land. Transfers include two types: Publicly Owned Treatment Works (POTW) and Other Offsite Locations.

6) To display Document Control Numbers and Chemical Names, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF10/22>**. The Submissions and Chemicals screen (Figure 5-29) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OMA               SUBMISSIONS AND CHEMICALS                    14:28:06

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


MARK  DOC CNTL NUM           CHEMICAL NAME
----  --------------------   ----------------------------------------------------
  X    13-89-03000421-8-NC   AMMONIA
  _    13-89-03000422-0-NC   FORMALDEHYDE
  _    13-89-03000423-2-NC   METHANOL
  _      -  -          - -
  _      -  -          - -
  _      -  -          - -
  _      -  -          - -
  _      -  -          - -
  _      -  -          - -
  _      -  -          - -
  _      -  -          - -


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU CNTCT RPTS  -PAGE +PAGE TREAT WASTE RELTR USES
```

Figure 5-29

7) To display Waste Treatment Methods and Efficiency data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF9/21>**. The Submission Waste Treatment Information screen (Figure 5-30) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OMC         SUBMISSION WASTE TREATMENT INFORMATION             14:29:03

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA
            WASTE TREATMENT METHODS AND EFFICIENCY  1   OF  1
WASTESTREAM   TREATMENT     RANGE OF      SEQUENTIAL     TREATMENT     OPERATING
   CODE        METHOD     INFLUENT CONC   TREATMENT    EFFICIENCY/NA    DATA
    W           R03            1                          90.00   /       N
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-30

8) To display Waste Minimization data, type an X before the DCN in the column labeled 'MARK,' and press **<PF10/22>**. The Submission Waste Minimization Information screen (Figure 5-31) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMD      SUBMISSION WASTE MINIMIZATION INFORMATION            14:29:16

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

WASTE MINIMIZATION DATA
  TYPE OF MODIFICATION   : NA
  CURRENT REPORTING YEAR:
  PRIOR REPORTING YEAR   :
  PERCENT CHANGE         :
  INDEX                  :
  REASON FOR ACTION      : NA

MAXIMUM AMOUNT ON SITE: 1,000 TO 9,999 LBS.


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-31

9) To display Release and Transfer data, type an X before the DCN in the column labeled 'MARK,' and press **<PF11/23>**. The Submission Releases and Transfers screen (Figure 5-32) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OME          SUBMISSION RELEASES AND TRANSFERS                14:29:27

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA

RELEASES                                REPORTING FOR: AN ENTIRE FACILITY
  FUGITIVE AIR:              300
  STACK AIR   :            3,600
  WATER       :
  UNDERGROUND :
  LAND        :
TOTAL RELEASES:            3,900

TRANSFERS
  POTW        :
  OFF-SITE    :
TOTAL TRANSFER:

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-32

10) To display Activity and Uses data, type an X before the DCN in the column labeled 'MARK,' and press **<PF12/24>**. The Submission Activity and Uses Information screen (Figure 5-33) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMF      SUBMISSION ACTIVITY AND USES INFORMATION             14:29:35

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

ACTIVITY AND USES:
 ANCILLARY OR OTHER USE









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-33

11) To display Contact data, type an X before the DCN in the column labeled 'MARK,' and press **<PF5/17>**. The Submission Contact Information screen (Figure 5-34) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                06/14/91
MAP: TRS91OMB             SUBMISSION CONTACT INFORMATION                13:28:04

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC


CHEMICAL NAME: AMMONIA


TECHNICAL CONTACT: G. L. KISER
            PHONE: 609/540-2666


   PUBLIC CONTACT: C. A. CREMEANS
            PHONE: 704/869-4571



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-34

The following Tables show PF Keys and corresponding functions for the CAS / Chemical Search.

CAS / Chemical Search Facilities Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Facility data	FACIL	PF9/21
DCN/chemical data	DCNS	PF10/22
Release/transfer data	RELTR	PF11/23
Latitude/longitude data	COORD	PF12/24

Table 5-5

CAS / Chemical Search Submissions and Chemicals Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Contact name/phone data	CNTCT	PF5/17
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Treatment data	TREAT	PF9/21
Waste minimization data	WASTE	PF10/22
Release/transfer data	RELTR	PF11/23
Activity and use data	USES	PF12/24

Table 5-6

5.4 Alternate Facility Key Search

FUNCTION: Use the Alternate Facility Key Search to display information about facilities and their submissions if you do not have the facility name but have one or more of the following identifying criteria:

- TRI Facility ID
- DUNS Number
- EPA ID
- Document Control Number (DCN)
- Parent Company DUNS Number
- Parent Company Name

Note that the Reporting Year is required for each selection. In addition to items listed above, the search can be further limited by supplying one of the following:

- CAS Number
- Chemical/Synonym/Compound

After a search of the database, the names of facilities that meet the search criteria are displayed with their TRI Facility IDs and number of submissions for the applicable Reporting Year. From this screen, the user is given several options, based upon Program Function (PF) keys, to display selected information.

ACCESS: Select option **4** from the Online Queries menu. The Facility Key Search screen (Figure 5-35) will appear.

1) Type 1 to select TRI Facility ID from the Facility Key Search Selection menu (Figure 5-35). Press **<ENTER>**. In this example, TRI Facility ID is used.

```
PGM: TRQ04OP                TOXIC RELEASE INVENTORY SYSTEM                06/13/91
MAP: TRQ04OM1                FACILITY KEY SEARCH SELECTION                14:52:45
------------------------------------------------------------------------------

                            1  TRI FACILITY ID

                            2  DUNS NUMBER

                            3  EPA ID

                            4  DOCUMENT CONTROL NUMBER

                            5  PARENT DUNS NUMBER

                            6  PARENT COMPANY NAME


                     Key selection and press <ENTER> ===>

------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-35

2) Type a **REPORTING YEAR**. This is a required field. In this example, '1989' is used.

3) Type a **TRI FACILITY ID**. This is also required. Here '27239DPNTCRT1BO' is used. Upper or lower case letters can be used. The following optional fields may be used to narrow the search: a **CAS NUMBER** or a **CHEMICAL/SYNONYM/CATEGORY NAME**. In this example (Figure 5-36), none of these optional fields are used. Press **<ENTER>** to begin the search.

```
PGM: TRQ04OP1               TOXIC RELEASE INVENTORY SYSTEM                06/13/91
MAP: TRQ04OM2           FACILITY KEY SEARCH BY TRI FACILITY ID            14:53:07
------------------------------------------------------------------------------

 REQUIRED

                  REPORTING YEAR....> 1989

                 TRI FACILITY ID....> 27239DPNTCRT1BO


 OPTIONAL


                      CAS NUMBER....> _________
                          --OR--
          CHEMICAL/CATEGORY NAME....> ____________________________________

                   Key selection criteria and press <ENTER>

------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      HELP  MAIN  PREV              RPTS
```

Figure 5-36

A list of facilities meeting the search criteria (Figure 5-37) will appear. The search criteria used are displayed at the top of the screen. If the list is longer than one screen, press **<PF7/19>** to page backward and **<PF8/20>** to page forward. In addition to the facility name, the TRI Facility ID and the number of submissions received from the facility for that Reporting Year are displayed on each line.

```
PGM: TRQ04OP1              TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRS90OMA                        FACILITIES                        14:54:15

 YEAR: 1989    TRI FACILITY ID: 27239DPNTCRT1BO



MARK  FACILITY NAME                                      TRI ID          # SUBM
----  -------------------------------------------------  --------------  ------
  X   DU PONT C&P HEALING SPRINGS                        27239DPNTCRT1BO    3
  -
  -
  -
  -
  -
  -
  -
  -
  -
--------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS             FACIL DCNS  RELTR COORD
```

Figure 5-37

4) To obtain more information about a particular facility, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF9/21>**. The Facility Information screen (Figure 5-38) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS90OMB                 FACILITY INFORMATION                      14:27:37

--------------------------------------------------------------------------------
FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989

STREET: RT #1 BOX 102
CITY  : DENTON
COUNTY: DAVIDSON
STATE : NC       ZIP: 27239

MAILING NAME/ADDRESS:
NAME  : SAME AS ABOVE
STREET:
CITY  :
STATE :          ZIP:

PRIMARY SIC CODE:
ASSIGNED DUNS   : 039129697          PARENT DUNS: 001315704
ASSIGNED EPA ID : NCD000475608       PARENT CO. : DUPONT

--------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS                  DCNS
```

Figure 5-38

5) To display Latitude and Longitude coordinates, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF12/24>**. The Facility Latitude / Longitude screen (Figure 5-39) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3              TOXIC RELEASE INVENTORY SYSTEM              05/16/91
MAP: TRS90OMD        FACILITY LATITUDE / LONGITUDE COORDINATES          14:28:36

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


                     FACILITY LATITUDE  : +0353645
                     FACILITY LONGITUDE : -0801036


                  ZIP CENTROID LATITUDE  : +0353800
                  ZIP CENTROID LONGITUDE : -0800606


                  EPA ASSIGNED LATITUDE  :
                  EPA ASSIGNED LONGITUDE :



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN  PREV  QMENU       RPTS                    DCNS
```

Figure 5-39

6) To display the total amount of Releases and Transfers reported by a facility for that Reporting Year, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF11/23>**. The Facility Releases and Transfers screen (Figure 5-40) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRQ01ON3            TOXIC RELEASE INVENTORY SYSTEM                05/16/91
MAP: TRS90OMC            FACILITY RELEASES AND TRANSFERS               14:28:25

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989


RELEASES
  FUGITIVE AIR:          11,300              These amounts are the totals
  STACK AIR    :          32,600              for all submissions for this
  WATER        :                              facility and reporting year.
  UNDERGROUND  :
  LAND         :
TOTAL RELEASES:          43,900

TRANSFERS
  POTW         :
  OFF-SITE     :
TOTAL TRANSFER:


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN  PREV  QMENU       RPTS                    DCNS
```

Figure 5-40

Releases include five types: Fugitive Air, Stack Air, Water, Underground, and Land. Transfers include two types: Publicly Owned Treatment Works (POTW) and Other Offsite Locations.

7) To display Document Control Numbers and Chemical Names, type an **X** before the Facility Name in the 'MARK' column, and press **<PF10/22>**. The Submissions and Chemicals screen (Figure 5-41) will appear. To return to the Facilities screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMA             SUBMISSIONS AND CHEMICALS                     14:28:06

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989

MARK  DOC CNTL NUM            CHEMICAL NAME
----  ----------------------  ------------------------------------------------
  X    13-89-03000421-8-NC    AMMONIA
  _    13-89-03000422-0-NC    FORMALDEHYDE
  _    13-89-03000423-2-NC    METHANOL
  _      -  -         -  -
  _      -  -         -  -
  _      -  -         -  -
  _      -  -         -  -
  _      -  -         -  -
  _      -  -         -  -
  _      -  -         -  -

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU CNTCT RPTS  -PAGE +PAGE TREAT WASTE RELTR USES
```

Figure 5-41

8) To display Waste Treatment Methods and Efficiency data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF9/21>**. The Submission Waste Treatment Information screen (Figure 5-42) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMC       SUBMISSION WASTE TREATMENT INFORMATION              14:29:03

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA
          WASTE TREATMENT METHODS AND EFFICIENCY  1   OF  1
WASTESTREAM   TREATMENT     RANGE OF      SEQUENTIAL     TREATMENT    OPERATING
   CODE         METHOD     INFLUENT CONC  TREATMENT    EFFICIENCY/NA    DATA
    W           R03            1                          90.00   /       N
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /
                                                                  /

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-42

9) To display Waste Minimization data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF10/22>**. The Submission Waste Minimization Information screen (Figure 5-43) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OMD      SUBMISSION WASTE MINIMIZATION INFORMATION            14:29:16

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

WASTE MINIMIZATION DATA
  TYPE OF MODIFICATION  : NA
  CURRENT REPORTING YEAR:
  PRIOR REPORTING YEAR  :
  PERCENT CHANGE        :
  INDEX                 :
  REASON FOR ACTION     : NA

MAXIMUM AMOUNT ON SITE: 1,000 TO 9,999 LBS.


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-43

10) To display Release and Transfer data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF11/23>**. The Submission Releases and Transfers screen (Figure 5-44) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                  05/16/91
MAP: TRS91OME          SUBMISSION RELEASES AND TRANSFERS                14:29:27

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC
CHEMICAL NAME: AMMONIA

RELEASES                               REPORTING FOR: AN ENTIRE FACILITY
  FUGITIVE AIR:            300
  STACK AIR   :          3,600
  WATER       :
  UNDERGROUND :
  LAND        :
TOTAL RELEASES:          3,900

TRANSFERS
  POTW        :
  OFF-SITE    :
TOTAL TRANSFER:

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  QMENU       RPTS
```

Figure 5-44

11) To display Activity and Uses data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF12/24>**. The Submission Activity and Uses Information screen (Figure 5-45) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON            TOXIC RELEASE INVENTORY SYSTEM                 05/16/91
MAP: TRS91OMF      SUBMISSION ACTIVITY AND USES INFORMATION            14:29:35

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC

CHEMICAL NAME: AMMONIA

ACTIVITY AND USES:
 ANCILLARY OR OTHER USE









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-45

12) To display Contact data, type an **X** before the DCN in the column labeled 'MARK,' and press **<PF5/17>**. The Submission Contact Information screen (Figure 5-46) will appear. To return to the Submissions and Chemicals screen, press **<PF3/15>**.

```
PGM: TRS91ON              TOXIC RELEASE INVENTORY SYSTEM                 06/14/91
MAP: TRS91OMB             SUBMISSION CONTACT INFORMATION                 13:28:04

FACILITY NAME : DU PONT C&P HEALING SPRINGS
TRI FACILITY ID: 27239DPNTCRT1BO       REPORTING YEAR: 1989
   DOC CNTL NUM: 13-89-03000421-8-NC


CHEMICAL NAME: AMMONIA


TECHNICAL CONTACT: G. L. KISER
            PHONE: 609/540-2666


   PUBLIC CONTACT: C. A. CREMEANS
            PHONE: 704/869-4571




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV   QMENU        RPTS
```

Figure 5-46

The following Tables show PF Keys and corresponding functions for the Alternate Facility Key Search.

Alternate Facility Key Search Facilities Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Facility data	FACIL	PF9/21
DCN/chemical data	DCNS	PF10/22
Release/transfer data	RELTR	PF11/23
Latitude/longitude data	COORD	PF12/24

Table 5-7

Alternate Facility Key Search Submissions and Chemicals Screen		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Online query menu	QMENU	PF4/16
Contact name/phone data	CNTCT	PF5/17
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20
Treatment data	TREAT	PF9/21
Waste minimization data	WASTE	PF10/22
Release/transfer data	RELTR	PF11/23
Activity and use data	USES	PF12/24

Table 5-8

5.5 Submission Display

FUNCTION: Use the Submission Display to display information submitted on an individual Form R. You can search the database if you have one of the following identifying criteria:

- TRI Facility ID
- DUNS Number
- EPA ID
- Document Control Number (DCN)
- Facility Name or range using wildcard, *
- Parent Company DUNS Number
- Parent Company Name or range using the wildcard, *

Note that the Reporting Year is required for each selection. In addition to items listed above, the search can be further limited by supplying one of the following:

- CAS Number
- Chemical/Synonym/Compound

After a search of the database, a series of screens are presented that display all the information from the Form Rs for the applicable Reporting Year. The user may skip to the next Form R in a series at any screen.

ACCESS: Select option **5** from the Online Queries menu. The Submission Display Selection screen (Figure 5-47) will appear.

1) Type **1** to select TRI Facility ID from the Submission Display Selection menu (Figure 5-47). In this example, TRI Facility ID is used.

```
PGM: TRQ05OP                TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ05OM1                SUBMISSION DISPLAY SELECTION               14:55:04
_____________________________________________________________________________

                              1  TRI FACILITY ID

                              2  DUNS NUMBER

                              3  EPA ID

                              4  DOCUMENT CONTROL NUMBER

                              5  FACILITY NAME

                              6  PARENT DUNS NUMBER

                              7  PARENT COMPANY NAME

                         Key selection and press <ENTER> ===> _
_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-47

2) Type a **REPORTING YEAR**. This is a required field. In this example, '1989' is used.

3) Type a **TRI FACILITY ID**. This is also required. Here '27239DPNTCRT1BO' is used. Upper or lower case letters can be used. The following optional fields may be used to narrow the search: a **CAS NUMBER** or a **CHEMICAL/SYNONYM/CATEGORY NAME**. In this example (Figure 5-48), none of these optional fields are used. Press **<ENTER>** to begin the search.

```
PGM: TRQ05OP1              TOXIC RELEASE INVENTORY SYSTEM                06/13/91
MAP: TRQ05OM2          SUBMISSION DISPLAY BY TRI FACILITY ID             14:55:18
_____________________________________________________________________________

 REQUIRED

                  REPORTING YEAR....> 1989

                 TRI FACILITY ID....> 27239DPNTCRT1BO


 OPTIONAL

                       CAS NUMBER....> _________
                            --OR--
           CHEMICAL/CATEGORY NAME....> ____________________________________

                     Key selection criteria and press <ENTER>
_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-48

The number of submissions found that meet the search criteria will appear. The Reporting Year selected for this search is displayed at the top of the screen (Figure 5-49). The TRI Facility ID entered is also displayed.

```
PGM: TRQ05OP1          TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ05OM9                SUBMISSION DISPLAY                    14:55:42

                          REPORTING YEAR: 1989

            3 SUBMISSION(S) FOUND FOR TRI FACILITY ID 27239DPNTCRT1BO




                      Press <ENTER> to view query
                                OR
                      Press the appropriate PF key

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT  HELP  MAIN  PREV             RPTS
```

Figure 5-49

4) Press **<ENTER>** to continue to the next screen (Figure 5-50) to view information about these submissions. To view information about the next submission, press **<PF5/17>**.

```
PGM: TRQ05ON1          TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ05OMB                SUBMISSION DISPLAY                    14:55:56

REGION:  04   TRI FACILITY ID:  27239DPNTCRT1BO

NAME   :  DU PONT C&P HEALING SPRINGS
STREET:  RT #1 BOX 102
CITY   :  DENTON
COUNTY:  DAVIDSON
STATE :  NC     ZIP:  27239-

DOCUMENT CONTROL NUMBER  :  13-89-03000421-8-NC
RPTG FOR ENTIRE FACILITY :  A       (AN ENTIRE COVERED FACILITY)
MAXIMUM AMOUNT CODE      :  03      (1,000--9,999)
CAS NUMBER               :  007664-41-7
CHEMICAL NAME            :  AMMONIA
CERTIFICATION NAME       :  C. A. CREMEANS
CERTIFICATION TITLE      :  PLANT MANAGER
CERTIFICATION DATE SIGNED:  04/19/90
 SUBM: 1 OF 3        TRIID: 27239DPNTCRT1BO / DCN: 13-89-03000421-8-NC

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT  HELP  MAIN  PREV      NEXT  RPTS
```

Figure 5-50

If **<ENTER>** is pressed, the second screen (Figure 5-51) for this submission will appear. The number of screens depends on the amount of information for each submission. Continue to press **<ENTER>** to view all data for the submission.

```
PGM: TRQ05ON1          TOXIC RELEASE INVENTORY SYSTEM                06/13/91
MAP: TRQ05OMC                SUBMISSION DISPLAY                      14:56:08

ASSIGNED DUNS NUMBER          :  039129697
ASSIGNED EPA ID               :  NCD000475608
STATE/COUNTY FIPS CODE        :  37057
ASSIGNED CENTROID LATITUDE    :  +0353800
ASSIGNED CENTROID LONGITUDE   :  -0800606
LATITUDE                      :  +0353645
LONGITUDE                     :  -0801036
PARENT COMPANY NAME           :  DUPONT
PARENT DUNS NUMBER            :  001315704
TECHNICAL CONTACT NAME        :  G. L. KISER
TECHNICAL CONTACT PHONE       :  (609) 540-2666
PUBLIC CONTACT NAME           :  C. A. CREMEANS
PUBLIC CONTACT PHONE          :  (704) 869-4571
UIC ID                        :
MIXTURE COMPONENT ID          :  NA
                              :
 SUBM: 1 OF 3        TRIID: 27239DPNTCRT1BO / DCN: 13-89-03000421-8-NC

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT  HELP  MAIN  PREV        NEXT  RPTS
```

Figure 5-51

The Table below shows PF Keys and corresponding functions for the Submission Display.

Submission Display		
Function/Data	Screen Label	PF Key
Continue or page forward	CONT	ENTER
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Skip to next submission	NEXT	PF5/17
Batch report menu	RPTS	PF6/18

Table 5-9

5.6 POTW / Offsite Search

FUNCTION: Use the POTW / Offsite Search to display information about Publicly Owned Treatment Works or Offsite disposal locations. You can search using the following criteria:

- POTW / Offsite ID
- POTW / Offsite Name or range using wildcard, *
- POTW / Offsite City or County
- POTW / Offsite ZIP Code

Note that the Reporting Year is required for each selection. When using the POTW / Offsite City / County or POTW / Offsite ZIP Code selections, the search can be further limited by supplying POTW / Offsite Name or range using wildcard, *.

After a search of the database a series of screens are presented which display the following:

- POTW / Offsite Name and Address
- POTW / Offsite ID
- CAS Number
- Document Control Number

ACCESS: Select option **6** from the Online Queries menu. The POTW / Offsite Search screen (Figure 5-52) will appear.

1) Type **2** to select the POTW / Offsite Facility Name Search from the POTW / Offsite Search menu (Figure 5-52).

```
PGM: TRQ06OP                TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ06OM1                   POTW / OFFSITE SEARCH                   14:56:32
_____________________________________________________________________________


                        1  POTW / OFFSITE ID

                        2  POTW / OFFSITE FACILITY NAME

                        3  POTW / OFFSITE CITY / COUNTY

                        4  POTW / OFFSITE ZIP CODE



                     Key selection and press <ENTER> ===> _

_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-52

2) Type a **REPORTING YEAR**. This field is required. Reporting Year '1989' is used.

3) Type a **POTW / OFFSITE FACILITY NAME** (or range using the wildcard, *). This is also required. Press **<ENTER>** to begin the search. In this example (Figure 5-53), 'Richmond*' is used. Upper or lower case letters can be used. There are no other optional fields available to narrow the search.

```
PGM: TRQ06OP1               TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ06OM2          POTW / OFFSITE SEARCH BY FACILITY ID             14:56:40
_____________________________________________________________________________


 REQUIRED

               REPORTING YEAR.............> 1989

               POTW / OFFSITE FACILITY ID..> RICHMOND*_____



                   Key selection criteria and press <ENTER>

_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-53

The number of submissions found that meet the search (Figure 5-54) will appear. The POTW / Offsite Facility Name selected for this search is also displayed.

```
PGM: TRQ060P2              TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ060M6              POTW / OFFSITE FACILITY SEARCH              14:57:49
_____________________________________________________________________________


    73 POTW / OFFSITE RECORD(S) FOUND FOR NAME RICHMOND*



                          Press <ENTER> to view
                                or
                          Press appropriate PF Key


_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT  HELP  MAIN  PREV             RPTS
```

Figure 5-54

4) To view detailed information about the POTW / Offsite Facility submissions, press **<ENTER>**. Two submissions (Figure 5-55) are displayed per screen.

```
PGM: TRQ060P2              TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ060MB               POTW/OFFSITE FACILITY SEARCH               14:58:01
_____________________________________________________________________________

POTW/OFFSITE NAME: RICHMOND CITY LANDFILL
          ADDRESS: BOX ANGLE RD. (P.O. BOX 250)
                   RICHMOND KY 40475

TRANSFER OFF-SITE ID: 40475RCHMNBOXAN          CAS NUMBER: NA     -  -
                                    DOC CONTROL NUM: 13-89-03534443-9-KY
                                                       1    OF 73
-----------------------------------------------------------------------------

POTW/OFFSITE NAME: RICHMOND CITY LANDFILL
          ADDRESS: BOX ANGLE RD. (P.O. BOX 250)
                   RICHMOND KY 40475

TRANSFER OFF-SITE ID: 40475RCHMNBOXAN          CAS NUMBER: 007664-93-9
                                    DOC CONTROL NUM: 13-89-03541144-4-KY
                                                       2    OF 73

_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT  HELP  MAIN  PREV             RPTS
```

Figure 5-55

The Table below shows PF Keys and corresponding functions for the POTW / Offsite Search.

POTW / Offsite Search		
Function/Data	Screen Label	PF Key
Continue or page forward	CONT	ENTER
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Batch report menu	RPTS	PF6/18

Table 5-10

5.7 Year-to-Year Release / Transfer Comparison

FUNCTION: Use the Year-to-Year Release / Transfer Comparison to display release/transfer information from facilities if you have the TRI Facility ID or the Facility Name (or range using the wildcard, *). You can search on one specific chemical by entering either the chemical/category/synonym name or CAS Number, or you may view all the chemicals for a facility.

ACCESS: Select option **7** from the Online Queries menu. The Year-to-Year Release / Transfer Comparison screen (Figure 5-56) will appear.

```
PGM: TRQ07OP              TOXIC RELEASE INVENTORY SYSTEM              03/27/91
MAP: TRQ07OM1       YEAR-TO-YEAR RELEASE / TRANSFER COMPARISON        10:54:34
_____________________________________________________________________________

 REQUIRED
                    TRI FACILITY ID....> 25143MNSNT1MONS
                         --OR--
                      FACILITY NAME....> _______________

                       INCLUDE DELISTED CHEMICALS: Y (Y/N)

 OPTIONAL

                        CAS NUMBER....> _________
                             --OR--
               CHEMICAL/CATEGORY NAME....> ____________________________________

                      Key selection criteria and press <ENTER>
_____________________________________________________________________________
Enter-PF1--PF2--PF3--PF4--PF5--PF6--PF7--PF8--PF9--PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-56

1) Type either the **TRI FACILITY ID** or the **FACILITY NAME.** One field is required. In this example (Figure 5-56), TRI Facility ID '25143MNSNT1MONS' is used. Upper or lower case letters can be used.

2) Type **Y** to include delisted chemicals in your search or **N** to exclude them.

3) To further limit your search, include a **CAS NUMBER** or a **CHEMICAL/SYNONYM/CATEGORY NAME.** In this example, neither of these optional fields have been entered. Press **<ENTER>** to begin your search.

Year-to-Year Release / Transfer information (Figure 5-57) will appear for the TRI Facility ID selected.

```
PGM: TRQ07OP            TOXIC RELEASE INVENTORY SYSTEM                  06/13/91
MAP: TRQ07OM2      YEAR-TO-YEAR RELEASE/TRANSFER COMPARISON             17:49:28

TRIFID: 25143MNSNT1MONS              ADDRESS: 1 MONSANTO RD.
  NAME: MONSANTO CO.                          NITRO WV 25143
 * History records exist - may be different name for a previous year *
        CHEMICAL:  ALL CHEMICALS INCLUDING DELISTED CHEMICALS
                        1987        1988        1989        1990        1991
# OF SUBMISSIONS         20          19          17           0           0

FUGITIVE AIR         507400      509600      501700           0           0
STACK AIR            100500      118517      196775           0           0
WATER                 57100      434350      432250           0           0
UNDERGROUND               0           0           0           0           0
LAND                  16350       16150        1950           0           0
REL TOTALS           681350     1078617     1132675           0           0

POTW                      0           0           0           0           0
OFF-SITE              67000       66800       14000           0           0
TRANS TOTALS          67000       66800       14000           0           0

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV             RPTS
```

Figure 5-57

4) To end your search, press **<PF3/15>** or **<ENTER>**.

The Table below shows PF Keys and corresponding functions for the Year-to-Year Release / Transfer Comparison.

Year-to-Year Release / Transfer Comparison		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Batch report menu	RPTS	PF6/18

Table 5-11

5.8 Historical Facility Information Search

FUNCTION: Use the Historical Facility Information Search to display historical information about a facility. Historical data includes Facility Name and Address, Parent Company DUNS Number, and Parent Company Name. You can search using the following identifying criteria:

- TRI Facility ID
- Historical Facility Name or range using wildcard, *
- Historical City / County
- Historical Region / State / ZIP Code
- Historical Parent DUNS Number
- Historical Parent Company Name or range using wildcard, *

Note that the Reporting Year is required. After a search of the database, a series of screens will be presented that display current facility data on the left-hand side and historical facility data on the right-hand side.

ACCESS: Select option **8** from the Online Queries menu. The Historical Facility Information Search screen (Figure 5-58) will appear.

1) To search the database by Historical Facility Name, type **2** from the Historical Facility Information Search menu (Figure 5-58). Press **<ENTER>**.

```
PGM: TRQ08OP              TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ08OM1          HISTORICAL FACILITY INFORMATION SEARCH         14:59:48

                        1  TRI FACILITY ID

                        2  HISTORICAL FACILITY NAME

                        3  HISTORICAL CITY / COUNTY

                        4  HISTORICAL REGION / STATE / ZIP CODE

                        5  HISTORICAL PARENT DUNS NUMBER

                        6  HISTORICAL PARENT COMPANY NAME


                      Key selection and press <ENTER> ===> 2

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV              RPTS
```

Figure 5-58

2) Type a **REPORTING YEAR**. This is a required field. Reporting Year '1988' is used.

3) Type a **HISTORICAL FACILITY NAME** (or range using the wildcard, *). This is also required. Press **<ENTER>** to begin the search. In this example (Figure 5-59), 'KEE*' is used. Upper or lower case letters can be used. There are no other optional fields available to narrow the search.

```
PGM: TRQ08ON2              TOXIC RELEASE INVENTORY SYSTEM              06/13/91
MAP: TRQ08OM3             HISTORY SEARCH BY FACILITY NAME              15:00:29

 REQUIRED
                           REPORTING YEAR.....> 1988

                  HISTORICAL FACILITY NAME.....> KEE*_________




                     Key selection criteria and press <ENTER>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV              RPTS
```

Figure 5-59

A list of facilities meeting the search and their TRI Facility ID (Figure 5-60) will appear. The search criteria used are displayed at the top of the screen. If the list is longer than one screen, press **<PF7/19>** to page backward and **<PF8/20>** to page forward.

```
PGM: TRS03ON              TOXIC RELEASE INVENTORY SYSTEM              06/14/91
MAP: TRS03OM1          HISTORY FACILITY NAME SELECTION SCREEN         13:19:39

            NAME: KEE*

MARK  FACILITY NAME                                          TRI FACILITY ID
----  ---------------------------------------------------    ---------------
  _   KEELER BRASS AUTOMOTIVE                                49502KLRBR236ST
  _   KEELER BRASS AUTOMOTIVE                                49508KLRBR29293
  _   KEELER BRASS CO.                                       49503KLRBR955GO
  X   KEENE CORP.                                           19701KNCRP1100G
  _   KEESHAN & BOST CHEMICAL CO. INC.                      77578KSHNB22102
  _
  _
  _
  _
  _


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV              RPTS  -PAGE       SELCT
```

Figure 5-60

4) To obtain more information about a particular facility, type an **X** before the Facility Name in the column labeled 'MARK,' and press **<PF9/21>**. The number of history records found that meet the search and the Facility Name (Figure 5-61) will appear. To return to the Historical Facility Name screen, press **<PF3/15>**.

```
PGM: TRQ08ON2             TOXIC RELEASE INVENTORY SYSTEM              06/14/91
MAP: TRQ08OM8               HISTORICAL FACILITY SEARCH                13:20:50




   1 HISTORY RECORD(S) FOUND FOR FACILITY NAME KEENE CORP.




                          Press <ENTER> to view
                                or
                          Press appropriate PF Key


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP   MAIN   PREV              RPTS
```

Figure 5-61

5) To view detailed information about the Historical Facility submissions, press **<ENTER>**. Current facility information is displayed on the left and Historical information on the right (Figure 5-62).

```
PGM: TRQ08ON9              TOXIC RELEASE INVENTORY SYSTEM              06/14/91
MAP: TRQ08OMB                HISTORICAL FACILITY SEARCH                13:20:58

        CURRENT                                                HISTORICAL

                                REPORTING YEAR:  1988
19701KNCRP1100G                 :TRI FACIL ID:

ARLON INC.                      :FACILITY NAME:  KEENE CORP.

1100 GOVERNOR LEA RD.             :ADDRESS:      1100 GOVERNOR LEA RD.

BEAR                  DE 19701  :CITY/ST/ZIP:   BEAR                    DE 19701
NEW CASTLE                      :  COUNTY   :   NEW CASTLE
BAIRNCO CORP.                   :PARENT NAME:   BAIRNCO CORP.
018288621                       :PARENT DUNS:   018288621

REASON FOR CHANGE:

                          Press <ENTER> to continue              1    OF 1

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              RPTS
```

Figure 5-62

6) Press **<ENTER>** to view all available data.

The Table below shows PF Keys and corresponding functions for the Historical Facility Search.

Historical Facility Search		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Batch report menu	RPTS	PF6/18

Table 5-12

5.9 Chemical Table Search

FUNCTION: Use the Chemical Table Search to display information about Chemical, Synonym, and Category names from the TRI Chemical Table. This search does not examine actual submissions. By entering a name without the wildcard, *, you will search for an exact match. By entering a beginning portion of name with the wildcard, *, you will search for chemicals with like names. For example:

Formaldehyde	searches the table only for this chemical name
Form*	searches for all chemical/synonym/category names starting with 'form'

After a search of the database, the names of chemicals, synonyms, and categories that meet the search criteria are displayed with their CAS Numbers.

ACCESS: Select option **9** from the Online Queries menu. The Chemical Table Search screen (Figure 5-63) will appear.

1) Type a **CHEMICAL** or **CATEGORY** or **SYNONYM NAME** (or range using the wildcard, *). This is a required field. In this example (Figure 5-63), 'FORM*' is used. Press **<ENTER>** to begin the search. There are no other optional fields available to narrow the search.

```
PGM: TRQ09OP            TOXIC RELEASE INVENTORY SYSTEM              06/14/91
MAP: TRQ09OM1                CHEMICAL TABLE SEARCH                  13:21:28

 REQUIRED

          CHEMICAL or CATEGORY or SYNONYM...> FORM*_____________

                    Key selection criteria and press <ENTER>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV             RPTS
```

Figure 5-63

A detailed Chemical/Synonym/Category listing that meets the search criteria (Figure 5-64) will appear. If the list is longer than one screen, press **<PF7/19>** to page backward and **<PF8/20>** to page forward. In addition to the Chemical/Synonym/Category name, the CAS Number is displayed on each line. To return to the Chemical Table Search screen, press **<PF3/15>**.

```
PGM: TRQ09OP            TOXIC RELEASE INVENTORY SYSTEM              06/14/91
MAP: TRQ09OM2                CHEMICAL TABLE SEARCH                  13:21:41

     CHEMICAL / CATEGORY / SYNONYM                                  CAS NUMBER
     ==============================                                 ==========

 FORMALDEHYDE                                                       000050-00-0
 FORMALDEHYDE SOLUTION                                              000050-00-0
 FORMALDEHYDE, GAS ..................................... .........  000050-00-0
 FORMALIN                                                           000050-00-0
 FORMALINE BLACK C                                                  001937-37-7
 FORMALITH ..............................................           000050-00-0
 FORMIC ACID, CHLORO-, ETHYL ESTER                                  000541-41-3
 FORMIC ALDEHYDE                                                    000050-00-0
 FORMIC ANAMMONIDE ......................................           000074-90-8
 FORMIC BLACK C                                                     001937-37-7
 FORMIC BLACK CW                                                    001937-37-7
 FORMIC BLACK EA                                                    001937-37-7

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV             RPTS  -PAGE +PAGE
```

Figure 5-64

The Table below shows PF Keys and corresponding functions for the Chemical Table Search.

Chemical Table Search		
Function/Data	Screen Label	PF Key
System HELP	HELP	PF1/13
Main Menu	MAIN	PF2/14
Previous Screen	PREV	PF3/15
Batch report menu	RPTS	PF6/18
Page backward	-PAGE	PF7/19
Page forward	+PAGE	PF8/20

Table 5-13

6 BATCH REPORTS

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6 BATCH REPORTS

FUNCTION: Use the Batch Reports to search and send information from the database to a printer attached to the IBM ES/9000. There are currently seven (7) reports available. Batch reports are done primarily to search for and print information for a geographic area, SIC codes, specific chemicals, and facilities. Additional reports are available to compare releases/transfers across all years for a facility or geographic area and display data applicable to POTW and Off-site locations. In addition, there are 113 reports available through the SAS Reports menu.

ACCESS: Select option 2 from the Data Retrieval menu.

1) To select a specific report, type the ***CORRESPONDING NUMBER*** at the Batch Report menu (Figure 6-1), and press **<ENTER>**.

```
PGM: TRR00OP            TOXIC RELEASE INVENTORY SYSTEM              10/18/91
MAP: TRR00OM0                 BATCH REPORT MENU                     12:36:40
_____________________________________________________________________________

 1  GEOGRAPHIC / CHEMICAL PROFILE REPORT    7  YEAR-TO-YEAR COMPARISON REPORT
 2  POTW / OFF-SITE LOCATION REPORT         8  SAS REPORTS MENU
 3  FACILITY PROFILE REPORT                 9  Future use
 4  FORM R FACSIMILE REPORT                10  Future use
 5  REGIONAL TRIS SUBMISSIONS REPORT       11  Future use
 6  CHEMICAL/GEOGRAPHIC/SIC CODE REPORT    12  CHANGE BATCH REPORT PROFILE


                    Key selection and press <ENTER> ===> __

_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              QUERY
```

Figure 6-1

6.1 Controlling Where and When Reports Print

FUNCTION: The TRIS user must decide where and when reports print when generating the information. This is done by setting report printing parameters. The Batch Report Profile screen controls the printing report parameters. Use it to control the account, time, priority, output destination, and number of copies for the report selected from the Report Menu. Before submitting a report to print the first time, the user should contact their region's Account Manager regarding this information.

ACCESS: Select option **12** from the Batch Report menu. The Batch Report Profile screen (Figure 6-2) will appear.

```
TRR01OM1                    TOXIC RELEASE INVENTORY SYSTEM                    07/04/90
                                BATCH REPORT PROFILE
--------------------------------------------------------------------------------

                  USER-ID:  GJA          ACCOUNT NO: TRISBMSP
                  BIN/BOX:  D166       SYSOUT CLASS: A
                 PRIORITY:  2              CPU-TIME: 05,00
                REMOTE NO:  R255             COPIES: 1



                           PRESS <ENTER> TO CONTINUE

--------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      HELP  MAIN  PREV              QUERY
```

Figure 6-2

The Batch Report Profile screen displays the current User ID. All other variables can be modified to meet individual user requirements. After users have entered batch report parameters, they are stored in the system for future reference. The Batch Report Profile screen will not be displayed again, unless requested by the user.

1) Type the **ACCOUNT NUMBER** you are charging. The default is TRISDBMSP.

2) Type the **BIN/BOX** where you want the final report to be printed. The default is D166 (TRIS User Support at the Washington Information Center).

3) Type the **SYSOUT CLASS** for the type of printer desired. The defualt is A for standard printer. The laser printer is designated as F.

4) Type the **PRIORITY** for this job. The default is 2. Priority 1 is overnight. See Section 5.3.2 of the NCC IBM User's Guide for a more detailed explanation.

5) Type the estimated **CPU TIME** in minutes, seconds. This parameter specifies the maximum amount of CPU time. The default is 5 CPU minutes. See Section 4.0 of the NCC IBM User's Guide for a more detailed explanation.

6) Type your **REMOTE PRINTER NUMBER** beginning with **R** (e.g., R114) or destination (see table below). The default is WIC (Washington Information Center). Output may be held on the system by using 'R255' or 'HOLD'.

7) Type the number of **COPIES** needed. The default is 1. When all fields are complete, press **<ENTER>**. Since parameters are stored for each user, it is unnecessary to reenter the same parameters to run other reports.

HELP is available for all fields. To view HELP screens, move the cursor to the desired field and press **<PF1/13>**. Press **<PF2/14>** to return to the Main Menu. Press **<PF3/15>** to return to the previous screen.

Regional Office	Destination	Regional Office	Destination
WIC	WIC	Atlanta	AT
New York	NY	Kansas City	KC
Denver	DV	Philadelphia	PH
Dallas	DA	Boston	BN
Seattle	SE	Chicago	CH

6.2 Recording the Job Number

FUNCTION: After the user types the selection criteria for a report (discussed in detail in the following sections) and presses **<ENTER>**, the report is submitted to the ES/9000 and assigned a job number. It is recommended that users record their job numbers so that all reports can be accounted for once they are retrieved. The job number is displayed in a window. An example appears in figure 6-3.

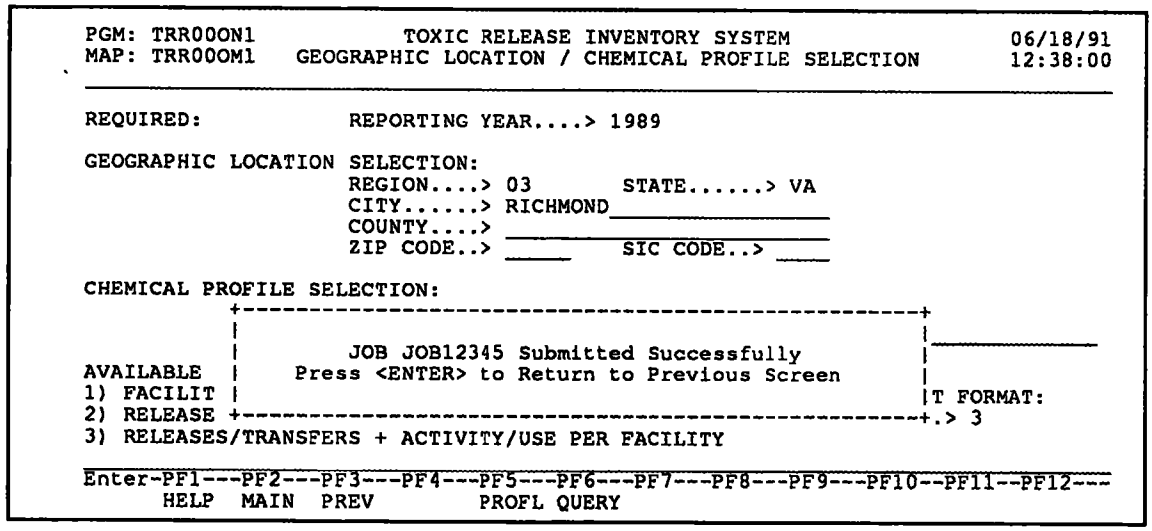

Figure 6-3

1) After recording the job number, press **<ENTER>** to return to the previous screen.

6.3 Geographic / Chemical Profile Report

FUNCTION: This report lists all facilities within a geographic location and/or submitting a specific chemical. Submissions are selected from the Geographic Location / Chemical Profile Report Selection screen by supplying geographic selection criteria and/or CAS Number or Chemical/Synonym/Category Name. This report is sorted on facility name. See Appendix B for an example of this report. A specific report format must be chosen from the following three options:

1) **Facility Identification Information**: Listed for each facility is Name, Address, EPA ID, TRI Facility ID, and the primary SIC Code with a total of facilities selected.

2) **Releases / Transfers Per Facility**: Listed for each facility is the amount of releases to air, water and land, transfers to off-site/POTW locations, and the total amount of releases and transfers, besides the above information. This report will also show the aggregate release and transfers for all facilities selected.

3) **Releases / Transfers and Activity / Use Per Facility**: Listed for each facility are the activities and uses of the chemical in addition to the above information.

ACCESS: Select option **1** from the Batch Report menu. The Geographic Location / Chemical Profile Selection screen (Figure 6-4) will appear.

1) Type a **REPORTING YEAR**. This is a required field. In this example, '1989' is used.

2) Type either **GEOGRAPHIC LOCATION** or **CHEMICAL PROFILE** information. For Geographic Location, the following optional fields may be entered to narrow the search: **REGION, STATE, CITY, COUNTY, ZIP CODE,** and **SIC CODE.** In this example, Region '03,' State 'Va,' and City 'Richmond' are used. Upper or lower case letters can be used. For Chemical Profile information, the following fields may be entered to narrow the search: either a **CAS NUMBER** or **CHEMICAL/SYNONYM/CATEGORY NAME.** In this example, Chemical Profile information was not used. You must enter at least one of these fields.

3) Type the **REPORT FORMAT**. This is a required field. In this example, '3' was used. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

```
PGM: TRR000N1          TOXIC RELEASE INVENTORY SYSTEM                06/18/91
MAP: TRR000M1   GEOGRAPHIC LOCATION / CHEMICAL PROFILE SELECTION     12:38:00
_____________________________________________________________________________

REQUIRED:           REPORTING YEAR....> 1989

GEOGRAPHIC LOCATION SELECTION:
                    REGION....> 03       STATE......> VA
                    CITY......> RICHMOND_____________
                    COUNTY....> ______________________
                    ZIP CODE..> _____    SIC CODE..> ____

CHEMICAL PROFILE SELECTION:
                    CAS NUMBER......> _________  --OR--
                    CHEMICAL NAME...> ____________________________________

AVAILABLE REPORT FORMATS:
1) FACILITY IDENTIFICATION INFORMATION              SELECT REPORT FORMAT:
2) RELEASES/TRANSFERS PER FACILITY                  (1,2,3).....> 3
3) RELEASES/TRANSFERS + ACTIVITY/USE PER FACILITY

_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-4

4) Record the **JOB NUMBER** and press **<ENTER>** to return to the Geographic Location / Chemical Profile Selection screen.

6.4 POTW / Off-Site Location Report

FUNCTION: This report lists all facilities transferring chemicals to a specified POTW or Off-Site location. Submissions are selected from the POTW / Off-Site Location Report Selection screen by supplying a POTW / Off-Site ID or POTW / Off-Site name. The selection can be further limited by supplying a CAS number or Chemical/Synonym/Category name. This report is sorted by POTW / Off-Site name and CAS Number. See Appendix B for an example of this report.

ACCESS: Select option **2** from the Batch Report menu. The POTW/Off-Site Location Selection screen (Figure 6-5) will appear.

```
PGM: TRR00ON2          TOXIC RELEASE INVENTORY SYSTEM                  06/18/91
MAP: TRR00OM2      POTW/OFF-SITE LOCATION REPORT SELECTION             12:39:21
_____________________________________________________________________________

                    REPORTING YEAR....> 1989

                   POTW/OFFSITE ID....> _______________

                                --OR--

                 POTW/OFFSITE NAME....> BFI WASTE SYSTEMS_______________

          SEARCH CAN BE LIMITED BY SUPPLYING CHEMICAL INFORMATION:

       CAS NUMBER....> _________     --OR--
       CHEMICAL NAME.> ____________________________________

          Key Selection Criteria and Press <ENTER> to Submit Report

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-5

1) Type a **REPORTING YEAR.** This is a required field. In this example, '1989' is used.

2) Type either a **POTW OFF-SITE ID** or **POTW OFF-SITE NAME.** One of these is required. In this example, 'BFI WASTE SYSTEMS' is used. Upper or lower case letters can be used. The following optional fields may be entered to narrow the search: **CAS**

NUMBER or **CHEMICAL/SYNONYM/CATEGORY NAME**. In this example (Figure 6-2), none of these optional fields have been entered. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the POTW/Off-Site Location Report Selection screen.

6.5 Facility Profile Report

FUNCTION: This report lists all information for a selected facility or submission on the database. The length of this report depends upon the number of Off-Site locations, POTWs, and waste treatment methods/efficiency entries in the submission. Facilities or submissions must be selected from the Facility Profile Report Selection screen by one of the following:

- TRI Facility ID
- DUNS Number
- Parent DUNS Number
- EPA ID
- Document Control Number
- Facility Name or range using the wildcard, *

The search can be limited by supplying a CAS Number or Chemical/Synonym/Category name. All versions of the resulting report are identical in format, except the first page, that lists the selection criterion. See Appendix B for an example of this report.

ACCESS: Select option **3** from the Batch Report menu. The Facility Profile Report Selection screen (Figure 6-6) will appear.

1) Type a **REPORTING YEAR.** This is a required field. In this example, '1989' is used.

2) Select the **FACILITY** based on the following options: **TRI FACILITY ID, DUNS NUMBER, PARENT DUNS NUMBER, EPA ID NUMBER, DOCUMENT**

CONTROL NUMBER, or **FACILITY NAME** (or range using the wildcard, *). This is also required; you must enter at least one field. In this example, the TRI Facility ID '27239DPNTCRT1BO' is used. Upper or lower case letters can be used. If a facility name range is entered, the Facility Name Selection screen is displayed. Select the facility of choice by placing an **X** before the facility name and pressing **<PF9/21>**. The following optional Chemical information fields may be entered to narrow the search: **CAS NUMBER** or **CHEMICAL/SYNONYM/CATEGORY NAME**. In this example, none of these optional fields have been entered. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

```
PGM: TRR00ON3          TOXIC RELEASE INVENTORY SYSTEM                 06/18/91
MAP: TRR00OM3         FACILITY PROFILE REPORT SELECTION               12:42:16
------------------------------------------------------------------------------
                        REPORTING YEAR:...> 1989

     PLEASE ENTER    TRI FACILITY ID............> 27239DPNTCRT1BO     --OR--
                     DUNS NUMBER................> _________           --OR--
                     PARENT DUNS NUMBER.........> _________           --OR--
                     EPA ID NUMBER..............> ____________        --OR--
                     DOCUMENT CONTROL NUMBER....> ______________      --OR--
                     FACILITY NAME..............> ______________

        SEARCH CAN BE LIMITED BY SUPPLYING CHEMICAL INFORMATION TO:

             CAS NUMBER...........> _________          --OR--

             CHEMICAL NAME........> ____________________________________

            Key Selection Criteria and Press <ENTER> to Submit Report
------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-6

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Facility Profile Report Selection screen.

6.6 Form R Facsimile Report

FUNCTION: This report lists all information for a selected facility or submission on the database. This report displays the submitted data in the same order as they were submitted on Form R. Submissions must be selected from the Form R Facsimile Report Selection screen by one of the following:

- TRI Facility ID
- EPA ID Number
- Parent DUNS Number
- DUNS Number
- Facility Name or range using the wildcard, *
- Document Control Number

The search can be limited by supplying a CAS number or Chemical/Synonym/Category name. All versions of the resulting report are identical in format, except the first page, listing the selection criteria. See Appendix B for an example of this report.

ACCESS: Select option **4** from the Batch Report menu. The Form R Facsimile Report screen (Figure 6-7) will appear.

1) Type a **REPORTING YEAR.** This is a required field. In this example, '1989' is used.

2) Select the **FACILITY** based on the following options: **TRI FACILITY ID, DUNS NUMBER, PARENT DUNS NUMBER, EPA ID NUMBER, DOCUMENT CONTROL NUMBER,** or **FACILITY NAME** (or range using the wildcard, *). This

is also required, you must enter at least one field. In this example, the TRI Facility ID '27239DPNTCRT1BO' is used. Upper or lower case letters can be used. If a facility name range is entered, the Facility Name Selection screen is displayed. Select the facility of choice by placing an **X** before the facility name and pressing **<PF9/21>**. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

```
PGM: TRR00ON4          TOXIC RELEASE INVENTORY SYSTEM              06/18/91
MAP: TRR00OM4             FORM 'R' FACSIMILE REPORT                12:42:41

                        REPORTING YEAR....> 1989

                TRI FACILITY ID.....> 27239DPNTCRT1BO      --OR--
                EPA ID NUMBER ......> ____________         --OR--
                PARENT DUNS NUMBER..> _________            --OR--
                DUNS NUMBER.........> _________            --OR--
                FACILITY NAME.......> ________________     --OR--
                DOCUMENT CONTROL NUMBER...> ________________

            Key Selection Criteria and Press <ENTER> to Submit Report


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-7

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Form R Facsimile Report screen.

6.7 Regional TRIS Submissions Report

FUNCTION: This report lists facility and chemical information for individual submissions within a specified geographical area. Submissions are selected using the Regional TRIS Submissions Report Selection screen. A summary is provided for each state as well as a final report summary, which includes number of submissions, number of facilities, and a list of chemicals/categories reported within the region of interest. The selection may be further limited by entering a state or ZIP code. This report is sorted by state, city, and facility name. See Appendix B for an example of this report.

ACCESS: Selection option **5** from the Batch Report menu. The Regional TRIS Submission Report screen (Figure 6-8) will appear.

```
PGM: TRR00ON5          TOXIC RELEASE INVENTORY SYSTEM                 06/18/91
MAP: TRR00OM5        REGIONAL TRIS SUBMISSIONS REPORT                 12:43:40

                      REPORTING YEAR....> 1989

                         REGION.....> 03
                         STATE......> VA
                         ZIP CODE...> 23231

            Key Selection Criteria and Press <ENTER> to Submit Report

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-8

1) Type a **REPORTING YEAR.** This is a required field. In this example, '1989' is used.

2) Type **GEOGRAPHIC** information from the following options: **REGION CODE, STATE,** or **ZIP CODE** (or range using the wildcard, *). One of these fields is required. In this example, Region '03,' State 'Va,' and ZIP Code '23231' are used. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the job number, press **<ENTER>** to return to the Regional TRIS Submissions Report Selection screen.

6.8 Chemical / Geographic / SIC Code Report

FUNCTION: This report lists facility name and address and release data for submissions selected based on any combination of CAS Number or chemical/synonym/category name, geographical information, or SIC Code. Submissions are selected from the Chemical/Geographic/SIC Code Report Selection screen. The sort order of the report is determined by the user who can select the report to run with totals only, or with both detail lines and totals. See Appendix B for an example of this report.

ACCESS: Select option 6 from the Batch Report menu. The Chemical/Geographic/SIC Code Report screen (Figure 6-9) will appear.

1) Type a **REPORTING YEAR.** This is a required field. In this example, '1989' is used.

```
PGM: TRR00N6          TOXIC RELEASE INVENTORY SYSTEM                  06/18/91
MAP: TRR06OM1      CHEMICAL/GEOGRAPHICAL/SIC CODE REPORT              16:35:56

REPORTING YEAR: 1989                        CONTROL TOTALS ONLY: N (Y/N)
                                    CLEAN AIR ACT CHEMICALS ONLY: N (Y/N)

PART 1: ENTER CAS NUMBER.....> _________
                                   --OR--
        CHEMICAL/CATEGORY NAME.....> toluene_____________________________

PART 2: ENTER REGION.> 03 (01 THRU 10)      STATE..> va
                CITY...> _____________________ (MUST ENTER A STATE ALSO)
                COUNTY.> _____________________  ' ' ' ' ' ' ' ' ' ' ' ' ''
                ZIP....> _____

PART 3: ENTER SIC CODE (SOURCE CATEGORY)..> ____

  Note: Just entering Part 3 criteria will cause the entire file to be read.
              At least 5 minutes CPU time should be given.
                    Press <ENTER> to continue

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              QUERY
```

Figure 6-9

2) To avoid reporting Control Totals only, press **<TAB>** for 'No.'

3) To avoid reporting Clean Air Act chemicals only, press **<TAB>** for 'No.'

4) Type **CHEMICAL, GEOGRAPHIC,** or **SIC CODE** selection criteria from Part 1 and/or Part 2 and/or Part 3. At least one part must be entered. To narrow the report, you may use more than one part. Press **<ENTER>** to proceed to the sort selection screen.

5) Specify the **SORT SEQUENCE** by typing numbers '1' through '7' in front of the various selections (Figure 6-10), where '1' is the highest level sort and '7' is the lowest level sort. At least one field must be selected for sorting. If CAS Number or Chemical/Category Name was specified, this automatically becomes the highest level sort. Summary totals are listed for each sorted field. Press **<ENTER>** to begin the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

6) Record the **JOB NUMBER,** press **<ENTER>** to return to the Regional TRIS Submissions Report Selection screen.

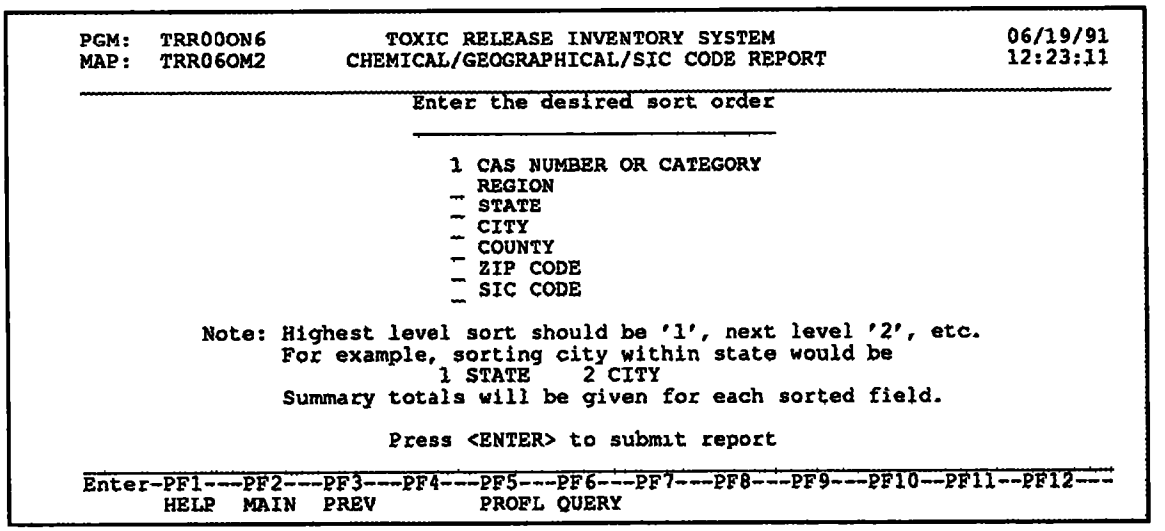

Figure 6-10

6.10 SAS Reports Menu

FUNCTION: Use the SAS Reports menu to access the various Statistical Analysis System (SAS) reports that contributed to the creation of the first TRI National Report released by the U.S. Environmental Protection Agency's Office of Toxic Substances. The SAS reports are divided into the following nine parts:

- Facility Identification Data
- TRI Chemicals
- Total Environmental Releases
- Air Emissions
- Discharges to Water
- Releases to Ground and Underground Injection Wells
- Transport of Chemicals Wastes Off-site for Treatment or Disposal
- Waste Treatment
- Waste Minimization

ACCESS: Select option **8** from the Batch Report menu.

1) To select a specific submenu, type the ***CORRESPONDING NUMBER*** at the SAS Reports menu (Figure 6-12), and press **<ENTER>**.

```
PGM: TRR00N8          TOXIC RELEASE INVENTORY SYSTEM              10/02/91
MAP: TRRS00M8               SAS REPORTS MENU                      09:37:33

 1  FACILITY IDENTIFICATION MENU          7  TRANSPORT OF CHEMICALS WASTES OFF-
                                             SITE FOR TREATMENT/DISPOSAL MENU
 2  TRI CHEMICALS MENU                    8  WASTE TREATMENT MENU

 3  TOTAL ENVIRONMENTAL RELEASES MENU     9  WASTE MINIMIZATION MENU

 4  AIR EMISSIONS MENU                    10 Future use

 5  DISCHARGES TO WATER MENU              11 Future use

 6  RELEASES TO GROUND AND UNDERGROUND    12 Future use
    INJECTION WELLS MENU

                    Key selection and press <ENTER> ===> __

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV              QUERY
```

Figure 6-12

6.10.1 Facility Identification Data

FUNCTION: Use the Facility Identification Data menu to produce reports that provide general facility information covering the geographical distribution of TRI facilities, industrial categories, parent companies, and facility activities and uses of TRI chemicals.

ACCESS: Select option **1** from the SAS Reports menu screen. The Facility Identification menu screen (Figure 6-13) will appear.

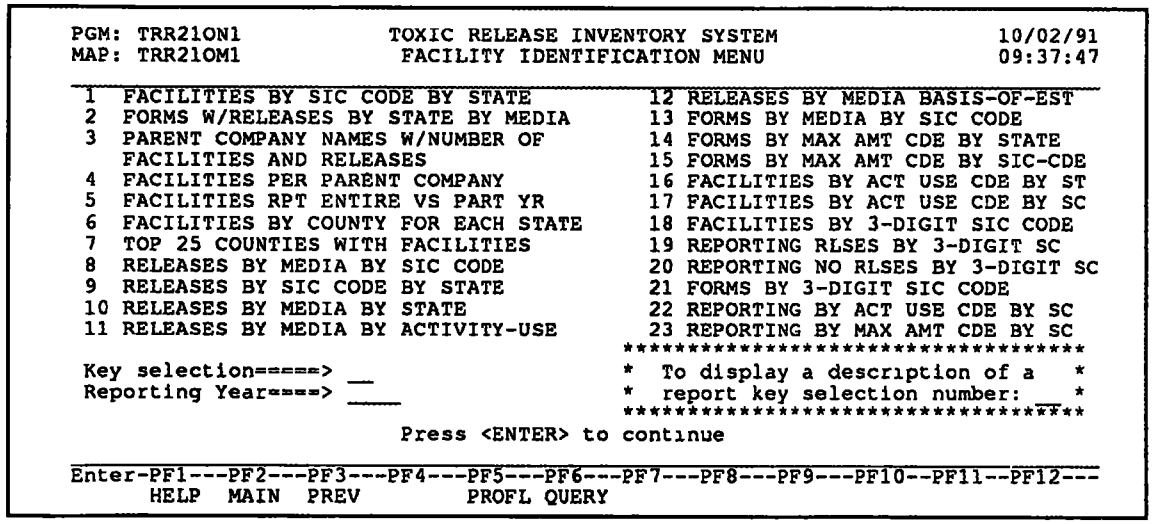

Figure 6-13

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR**. These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Facility Identification menu screen.

6.10.2 TRI Chemicals

FUNCTION: Use the TRI Chemicals menu to produce reports that analyze how often and in what amounts releases of individual chemicals and categories were reported. The reports classify the chemicals according to structural features and examine how classes of chemicals were used and released by different industries throughout the nation.

ACCESS: Select option 2 from the SAS Reports menu screen. The TRI Chemicals menu screen (Figure 6-14) will appear.

```
PGM: TRR22ON1          TOXIC RELEASE INVENTORY SYSTEM                10/02/91
MAP: TRR22OM1                TRI CHEMICAL MENU                       09:38:11
 1 FORMS BY SIC CODE BY CHEMICAL                7  FACILITIES PER CHEMICAL/SIC CODE

 2 DISTRIBUTION OF CHEMICALS PER FACILITY       8  FORMS BY MAX.AMT.CDE BY CHEMICAL

 3 CHEMICALS PER FACILITY BY STATE              9  FORMS BY ACT.USE.CDE BY CHEMICAL

 4 CHEMICALS PER FACILITY BY SIC CODE           10 RELEASE FOR CHEMICALS BY SIC CDE

 5 DISTRIBUTION OF FACILITIES PER CHEMICAL      11 CHEMICAL PER FACILITY BY SIC CDE

 6 FACILITIES PER CHEMICAL PER STATE            12 FACILITY PER CHEMICAL BY SIC CDE

                                              ************************************
 Key selection=====> __                       *  To display a description of a   *
 Reporting Year====> ____                     *  report key selection number: __ *
                                              ************************************
                         Press <ENTER> to continue

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-14

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR**. These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the TRI Chemicals menu screen.

6.10.3 Total Environmental Releases

FUNCTION: Use the Total Environmental Releases menu to produce reports showing general trends in the production and use of toxic chemicals across the nation. These reports provide information on the location of facilities that emitted toxic chemicals, the types of industries and facilities recording the largest emissions, and the specific toxic chemicals released. The reports in this submenu also provide information on how facilities calculated their releases.

ACCESS: Select option **3** from the SAS Reports menu screen. The Total Environmental Releases menu screen (Figure 6-15) will appear.

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

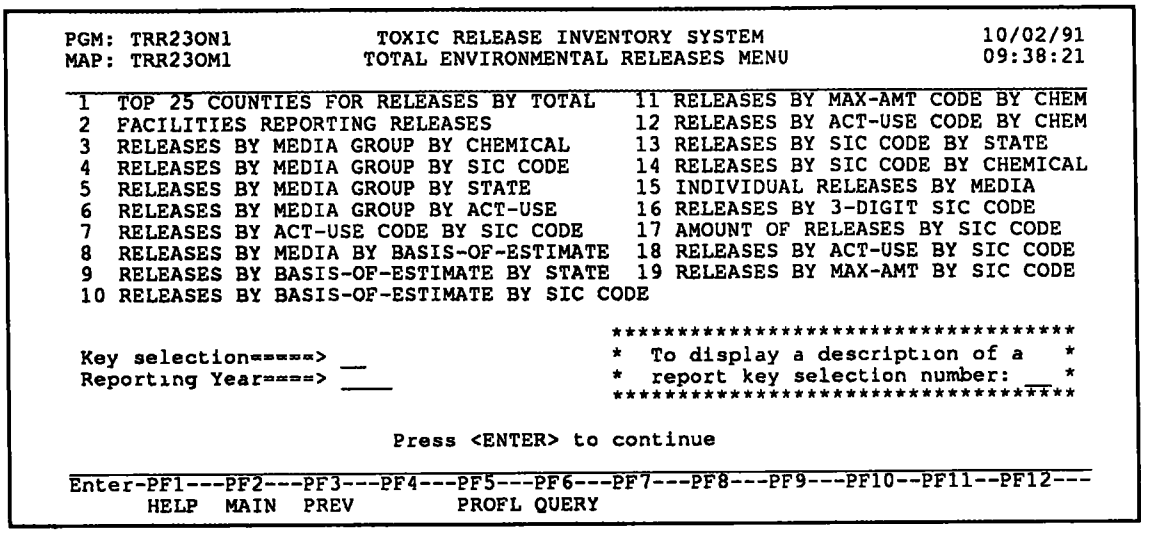

Figure 6-15

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR.** These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Total Environmental Releases menu screen.

6.10.4 Air Emissions

FUNCTION: Use the Air Emissions menu to produce reports that present the top 25 counties nationwide with the highest fugitive air emissions, stack air emissions, and total air emissions.

ACCESS: Select option 4 from the SAS Reports menu screen. The Air Emissions menu screen (Figure 6-16) will appear.

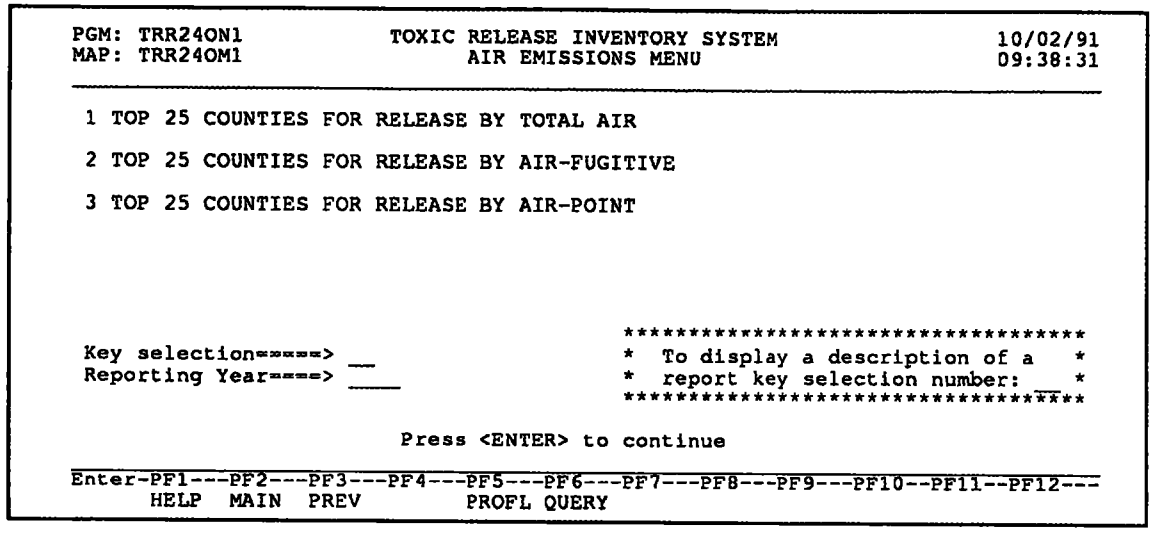

Figure 6-16

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR.** These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Air Emissions menu screen.

6.10.5 Discharges to Water

FUNCTION: Use the Discharges to Water menu to produce reports on the amounts of toxic chemicals that facilities released directly and indirectly to water, where they were released, by which industries and facilities, and what chemicals were released in the largest amounts. The distinction between direct and indirect releases must be recognized. In both cases, chemicals are released to water, but only direct releases indicate chemicals going straight to water in the environment. The actual amounts of chemicals released to the environment as a result of indirect releases, and whether those releases are to water, land, or air, cannot be determined from TRI reports.

ACCESS: Select option **5** from the SAS Reports menu screen. The Discharges to Water menu screen (Figure 6-17) will appear.

```
PGM: TRR25ON1          TOXIC RELEASE INVENTORY SYSTEM              10/02/91
MAP: TRR25OM1             DISCHARGES TO WATER MENU                 09:38:46

 1  TOP 25 COUNTIES RLSE BY TOTAL WATER     5  FORMS WITH TRANSFERS TO ONE OR
                                               MULTIPLE POTWs
 2  TOP 25 COUNTIES RLSE BY SURFACE WATER   6  RELEASES TO ONE POTW VS MULTIPLE

 3  TOP 25 COUNTIES RLSE TO POTW            7  FORMS AND TOTAL SURFACE WATER

 4  FACILITIES WITH TRANSFERS TO ONE OR     8  FACILITIES AND TOTAL SURFACE
    MULTIPLE POTWs                             WATER WITH VALID NPDES


                                        ************************************
 Key selection=====> __                 *  To display a description of a   *
 Reporting Year====> ____               *  report key selection number:    *
                                        ************************************

                        Press <ENTER> to continue

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-17

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR**. These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Discharges to Water menu screen.

6.10.6 Releases to Ground and Underground Injection Wells

FUNCTION: Use the Releases to Ground and Underground Injection Wells menu to produce reports that examine where and by what industries and facilities toxic chemicals are disposed of on land and by underground injection at onsite locations, as well as the specific chemicals that are released in the largest amounts.

ACCESS: Select option **6** from the SAS Reports menu screen. The Releases to Ground and Underground Injection Wells menu screen (Figure 6-18) will appear.

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

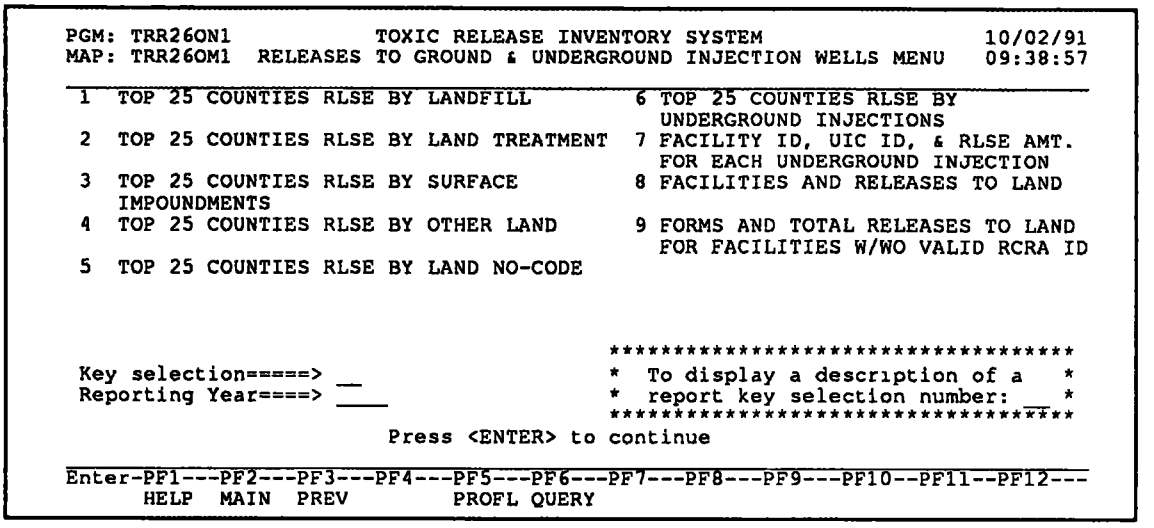

Figure 6-18

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR.** These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Releases to Ground and Underground Injection Wells menu screen.

6.10.7 Transport of Chemicals Wastes Off-site for Treatment or Disposal

FUNCTION: Use the Transport of Chemicals Wastes Off-site for Treatment or Disposal menu to produce reports that provide information describing the geographical distribution of the facilities from and to which wastes were transferred, the industries that transferred large amounts of wastes, and the prominent chemicals. Also offered are the types of treatment that chemicals received at off-site facilities.

ACCESS: Select option **7** from the SAS Reports menu screen. The Transport of Chemicals Wastes Off-site menu screen (Figure 6-19) will appear.

```
PGM: TRR27ON1          TOXIC RELEASE INVENTORY SYSTEM              10/02/91
MAP: TRR27OM1    TRANSPORT OF CHEMICALS WASTES OFF-SITE MENU       09:39:17

 1  COUNTIES FOR RELEASE BY OTHER          7  OFF-SITE LOCATIONS WITH MOST
    OFF-SITE TRANSFERS                        FACILITIES REPORTING ITS USE
 2  FACILITIES REPORTING OFF-SITE          8  FACILITIES REPORTING IS LOCATION
    IN/OUT-OF-STATE BY FACILITY STATE         UNDER CONTROL OF PARENT COMPANY
 3  FACILITIES REPORTING OFF-SITE          9  FORMS AND AMT OF RELEASES TO
    IN/OUT-OF-STATE BY STATE OF TRANSFER      OFF-SITES W/WO VALID RCRA NUMBER
 4  DIFFERENT OFF-SITE LOCATIONS REPORTED  10 RELEASES FOR OFF-SITE TRANSFERS
    BY STATE OF THE OFF-SITE LOCATION         IN/OUT-OF-STATE
 5  AVERAGE NUMBER OF OFF-SITE LOCATIONS   11 FORMS AND AMT OF RELEASES TO
    PER FACILITY                              OFF-SITES BY TREAT/DISPOSAL CODE
 6  DISTRIBUTION OF OFF-SITE LOCATIONS     12 OFF-SITE TRANSFERS IN/OUT-STATE
    PER FACILITY                              BY STATE OF TRANSFER
                                           **********************************
 Key selection=====> __                    *  To display a description of a  *
 Reporting Year====> ____                  *  report key selection number: __ *
                                           **********************************

                        Press <ENTER> to continue

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-19

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR**. These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Transport of Chemicals Wastes Off-site menu screen.

6.10.8 Waste Treatment

FUNCTION: Use the Waste Treatment menu to produce reports that provide information on the geographical and industrial distribution of facilities that treated wastes onsite, and describe the chemicals and types of wastestreams that were treated. There is also information on the waste treatment methods and their efficiencies.

ACCESS: Select option **8** from the SAS Reports menu screen. The Waste Treatment menu screen (Figure 6-20) will appear.

```
PGM: TRR28ON1          TOXIC RELEASE INVENTORY SYSTEM              10/02/91
MAP: TRR28OM1               WASTE TREATMENT MENU                   09:39:36

 1  NUMBER OF FACILITIES BY SIC CODE BY      5  NUMBER OF FACILITIES IN EACH
    STATE WITH WASTE TREATMENT                  GROUP

 2  NUMBER OF FORMS REPORTING WASTE          6  AMOUNT OF RELEASES BY MEDIA GROUP
    TREATMENT BY CHEMICAL

 3  NUMBER OF FACILITIES WITH SEQUENTIAL     7  AVG MAX AMT OF CHEMICAL ON SITE
    TREATMENT  (1 of 2)                         FOR FACILITIES W/WASTE TREATMENT

 4  NUMBER OF FORMS WITH SEQUENTIAL          8  FACILITIES REPORTING WASTE
    TREATMENT  (2 of 2)                         TREATMENT BY 3-DIGIT SIC CODE

                                           ************************************
 Key selection=====> __                    *  To display a description of a   *
 Reporting Year====> ____                  *  report key selection number:  __ *
                                           ************************************
                      Press <ENTER> to continue

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-20

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR**. These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Waste Treatment menu screen.

6.10.9 Waste Minimization

FUNCTION: Use the Waste Minimization menu to produce reports that examine where and in what industries the facilities, that attempted to minimize wastes, are located and identify which chemicals were most often targeted for waste reduction.

ACCESS: Select option **9** from the SAS Reports menu screen. The Waste Minimization menu screen (Figure 6-21) will appear.

```
PGM: TRR29ON1          TOXIC RELEASE INVENTORY SYSTEM              10/02/91
MAP: TRR29OM1              WASTE MINIMIZATION MENU                 09:39:50

 1  FAC W/WASTE MIN BY SIC CODE BY STATE    11 COMPARISON OF PRODUCTION INDEX
 2  FAC W/WASTE MIN BY ACT-USE BY STATE        TO PERCENTAGE CHANGE (2 of 2)
 3  FAC W/WASTE MIN BY ACT-USE BY           12 FORMS BY SIC CODE BY STATE
    SIC CODE                                13 FORMS BY SIC CODE BY ACT-USE
 4  FAC BY WASTE MIN CODE BY STATE          14 FORMS BY STATE BY ACT-USE CODE
 5  FAC BY WASTE MIN CODE BY SIC CODE       15 FORMS BY SIC CODE BY CHEMICAL
 6  DISTR OF CHEM FOR FAC W/WASTE MIN       16 FAC W/WASTE MIN BY SIC CODE
 7  FORMS BY WASTE MIN CODE BY STATE        17 FORMS FILLING IN WASTE MIN BY
 8  FORMS BY WASTE MIN CODE BY SIC CODE        3-DIGIT SIC CODE
 9  FORMS BY WASTE MIN CODE BY CHEMICAL     18 FAC BY WASTE MIN BY SIC CODE
 10 COMPARISON OF PRODUCTION INDEX TO       19 FORMS BY WASTE MIN CODE BY
    PERCENTAGE CHANGE (1 OF 2)                 3-DIGIT SIC CODE
                                          **********************************
 Key selection=====> __                   *  To display a description of a  *
 Reporting Year====> ____                 *  report key selection number:__ *
                                          **********************************

                        Press <ENTER> to continue

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL QUERY
```

Figure 6-21

1) For a description of a specific report, use **<TAB>** to advance the cursor to the prompt: 'To display a description of a report key selection number.' Type the ***CORRESPONDING NUMBER*** and press **<ENTER>**. A detailed explanation of the report will appear.

2) To select a specific report, type the ***CORRESPONDING NUMBER*** at the prompt: 'Key selection field.' Then use **<TAB>** to advance the cursor and type the **REPORTING YEAR**. These fields are required. Press **<ENTER>** to submit the report. Your job is submitted and a message appears at the bottom of the screen advising you of the job number assigned.

3) Record the **JOB NUMBER** and press **<ENTER>** to return to the Waste Minimization menu screen.

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7 DATA OFFLOAD

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7 DATA OFFLOAD

FUNCTION: The Data Offload enables the user to create a customized extract file from the TRI database. By supplying geographic and/or chemical search criteria, and then choosing any combination of TRI data elements; a program is automatically constructed and executed that offloads the data onto an IBM ES/9000 mainframe sequential (extract) file.

Besides the extract file, the function also produces a dBASE description file. The dBASE description file is generated to help in the creation of a dBASE database on a PC or LAN.

Some users will wish to download the extract file and dBASE description file to a PC or LAN. To download or transfer files from the IBM ES/9000 mainframe to a PC or LAN, the PC used must have:

- Communications program installed
- Connection to the IBM ES/9000 mainframe

Instructions for downloading or transferring data from IBM ES/9000 mainframe to PC can be found in The Guide to NCC Services, chapter entitled "Micro-to-Mainframe Link" (included in Appendix E).

NOTE: *The TRIS database contains a large volume of data. Users are cautioned to consult with their LAN Administrator concerning storage space before attempting to transfer a Data File from the IBM ES/9000 mainframe to a LAN.*

ACCESS: Select option 3 from the Data Retrieval menu and press <ENTER>. The Select Geographic/Chemical Information selection screen (Figure 7-1) will appear.

1) Type a **REPORTING YEAR.** This field is required.

2) After Reporting Year, either **GEOGRAPHIC** or **CHEMICAL INFORMATION** must be supplied. Both Geographic and Chemical Selection may be entered, but one criterion is required. The following fields may be entered to narrow the search: the Region, State, City, County, ZIP Code, CAS Number, or Chemical/Synonym/Category. Upper or lower case letters can be used. Once the search criteria has been supplied, press <ENTER> to display the Select Data Elements screen.

```
PGM: TRF01OP          TOXIC RELEASE INVENTORY SYSTEM              03/31/91
MAP: TRF01OM1     SELECT GEOGRAPHIC/CHEMICAL INFORMATION          09:39:19

 REQUIRED    YEAR: ____

 OPTIONAL  REGION: __
            STATE: __
             CITY: ____________________________
           COUNTY: ____________________________
         ZIP CODE: _____

       CAS NUMBER: _________
           --OR--
CHEMICAL/CATEGORY: ________________________________________


        Type Geographic and/or Chemical information and press <ENTER>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV
```

Figure 7-1

3) After selecting Geographic and/or Chemical information, you may include specific data elements in the extract file (Figure 7-2). The TRI Facility ID and Document Control Number (DCN) are automatically included. Type X in the space to the left of the data elements to be selected. Press **<TAB>** to advance the cursor through the data fields. Press **<ENTER>** when selection is complete.

```
PGM: TRF020P              TOXIC RELEASE INVENTORY SYSTEM                 03/31/91
MAP: TRF020M1                 SELECT DATA ELEMENTS                       10:46:59

_ FACILITY NAME            _ PUBLIC CONTACT             _ CHEMICAL NAME
_ FACILITY STREET          _ PUBLIC TELEPHONE           _ CAS NUMBER
_ FACILITY CITY            _ TECHNICAL CONTACT          _ FUGITIVE/NON-PNT AIR
_ FACILITY COUNTY          _ TECHNICAL TELEPHONE        _ STACK/POINT AIR
_ FACILITY STATE           _ PARENT COMPANY NAME        _ WATER BODIES
_ FACILITY ZIP             _ PARENT DUNS NUMBER         _ UNDERGROUND INJECTION
_ FACILITY ENT/PRT CODE    _ STATE COUNTY FIPS CODE     _ LAND ON-SITE
_ FACILITY LATITUDE        _ WASTE MIN CODE             _ POTW
_ FACILITY LONGITUDE       _ WASTE MIN CURRENT YEAR     _ OTHER OFF-SITE
_ CENTROID LATITUDE        _ WASTE MIN PRIOR YEAR       _ UIC ID(1-2)
_ CENTROID LONGITUDE       _ WASTE MIN PCT CHANGE       _ EPA ID(1)
_ MAXIMUM  AMOUNT CODE     _ WASTE MIN INDEX            _ SIC CODE(1-3)
_ ACTVTY USE CODE(1-13)    _ WASTE MIN REASON CODE      _ DUNS NUMBER(1)

            Type X to select data elements and press <ENTER>
     NOTE: The TRI Facility ID and the DCN will be selected automatically

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV        PROFL
```

Figure 7-2

Like Batch Reports, the Data Offload submits a job to run in 'background' mode on the IBM ES/9000. The same job profile parameters (e.g., output destination, number of copies, etc.) that are used for Batch Reports are used for the Data Offload. See Section 6.1 for a detailed explanation. The Batch Job Profile can be accessed directly from the Select Data Elements screen by pressing **<PF5/17>.**

In addition, Releases/Transfers totals for Water Bodies, Land On-Site, POTW, and Other Off-Site are cumulative for all occurrences per submission.

4) After pressing **<ENTER>** to submit the job, a message is displayed that contains the extract file name and the job number (Figure 7-3). Record this information for future reference. See Section 7.1, "IBM Sequential Data File," for a definition of the naming conventions used for the Data File.

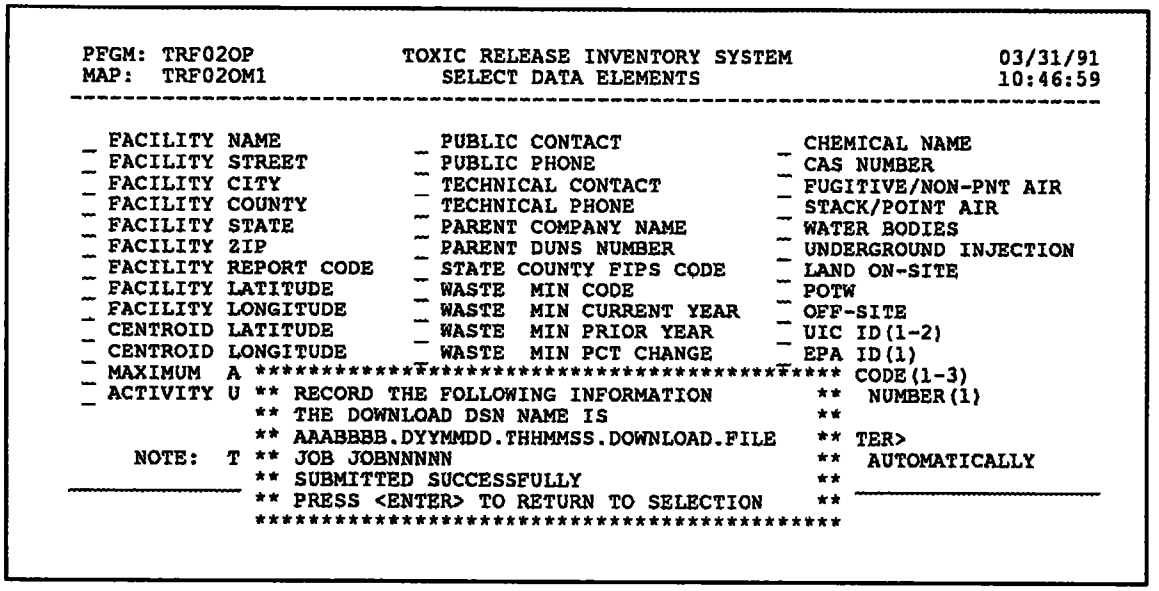

Figure 7-3

7.1 IBM Sequential Data File

The intermediate IBM Data File is created in the EBCDIC format when the job has completed. The file can then be converted to an ASCII file and transferred to a LAN or PC. The Data File name has the following five parts:

1) Logon ID and Account number

2) Date Stamp

3) Time Stamp

4) Function type

5) Storage device type

The following naming conventions apply to the Data File name;

AAABBBB.DYYMMDD.THHMMSS.DOWNLOAD.FILE

Where:

- AAA is your three character User ID
- BBBB is your four character account code
- DYYMMDD is the current date in year, month, day format
- THHMMSS is the current time in hours, minutes, seconds format
- DOWNLOAD is the name of the function
- FILE is the storage device

7.2 Understanding the Printed Report

A printed batch report provides information which includes the name of the file created; the date and time the file was created; the number of records selected based on the Geographic/Chemical selection; and the format of each record on the file. The corresponding report generated from the Data Offload Function contains the following information:

- Report Title
- Data File Name
- Selection Criteria
- Total number of records found
- Data File Format:
    1) Data Element Name
    2) Data Element Type
    3) Data Element Length
- Data File size in ASCII
- Data File size in dBASE
- dBASE Description File Name

The Data File name is identical with that displayed when the job is submitted.

The selection criteria repeat the parameters supplied on the Select Geographic/Chemical Information screen. The number of records found is the number of Form R submissions that matched the selection criteria and were output to the Data File.

The Data File format lists each data element chosen on the Select Data Elements Screen. It also lists the corresponding Data Type and Data Length. The Data Type can be character (C) or numeric (N). The Data Length shows the number of bytes for each Data Element. Some numeric elements may contain both whole and decimal digits.

The file size in both ASCII and dBASE is supplied so that users can determine the amount of storage space if the Data File is to be transferred to a PC or Local Area Network (LAN).

The dBASE Description File Name is automatically generated and intended for transfer into a dBASE database on a PC or LAN. This is a specially formatted database definition file that corresponds to the Data File. Like the Data File, this file can be transferred to a PC or LAN.

The following page contains a sample of the report generated from the Data Offload, which is delivered to the users' bin.

```
TRF04BP          UNITED STATES ENVIRONMENTAL PROTECTION AGENCY          07/04/91
PAGE: 1                   TOXIC RELEASE INVENTORY SYSTEM                10:30:04
                    TRIS MAINFRAME DATA OFFLOAD LAYOUT REPORT
-------------------------------------------------------------------------------

THE TRIS DATA FILENAME IS = AAABBBB.D910704.T102933.DOWNLOAD.FILE

GEOGRAPHICAL/CHEMICAL SELECTION CRITERIA

REPORTING YEAR                = 1989
SELECTED REGION               = 03
SELECTED STATE                = VA
SELECTED CITY                 = RICHMOND
SELECTED ZIP CODE             = 00000
SELECTED ZIP CODE THRU        = 99999
SELECTED CAS NUMBER           = 000050000
SELECTED CHEMICAL/CATEGORY    = FORMALDEHYDE

USING THE GEOGRAPHIC/CHEMICAL SELECTION CRITERIA ABOVE, THE TOTAL NUMBER OF
RECORDS FOUND ON THE TRIS DATABASE WAS 2

SEQUENCE     DATA ELEMENT          DATA TYPE      DATA LENGTH
   1         FACIL-NAME-1              C             30.0
   2         FACIL-NAME-2              C             30.0
   3         PUBLIC-CONTACT-NAME       C             45.0
   4         PUBLIC-CONTACT-PHONE      C             10.0
   5         NON-PNT-RLSE-TOTAL        N             11.0
   6         PNT-RLSE-TOTAL            N             11.0
   7         WATER-RLSE-TOTAL          N             11.0
   8         UNDRGRD-RLSE-TOTAL        N             11.0
   9         LAND-RLSE-TOTAL           N             11.0
  10         POTW-RLSE-TOTAL           N             11.0
  11         OFFSITE-RLSE-TOTAL        N             11.0
  12         DOC-CNTL-NUM              C             15.0
  13         TRI-FACILITY-ID           C             15.0
  14         FILLER                    C             1

ASCII FILESIZE FOR THE AAABBBB.D910704.T102933.DOWNLOAD.FILE IS 446 BYTES
DBASE FILESIZE FOR THE AAABBBB.D910704.T102933.DOWNLOAD.FILE IS 960 BYTES
THE DESCRIPTION FILE NAME IS AAABBBB.D910704.T102933.DESCRIPT.FILE
```

8 TUTORIAL

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8 TUTORIAL

FUNCTION: The TRI menu driven system features an online Tutorial. The Tutorial is designed to help the novice user who is unable to attend the regularly scheduled training course. It also may assist the more experienced user as new system enhancements are added. The Tutorial covers basic skills necessary to retrieve data from the system using Online Queries, Batch Reports, and Data Offload. Much of the Tutorial is interactive and requires the user to provide search criteria and use the correct PF keys. In addition, the Tutorial explains terminology and concepts unique to TRIS.

ACCESS: Select option **4** from the Data Retrieval menu and press **<ENTER>**. The Tutorial menu (Figure 8-1) will appear.

```
PGM: TRU000P          TOXIC RELEASE INVENTORY SYSTEM          03/31/91
MAP: TRU000M1               TUTORIAL MENU                     14:32:16
_____________________________________________________________________

                          1  GENERAL INFORMATION
                          2  USING THE SYSTEM
                          3  ONLINE QUERIES
                          4  BATCH REPORTS
                          5  DATA OFFLOAD
                          6  USER SUPPORT

                    Key selection and press <ENTER> ===> _

_____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV
```

Figure 8-1

The online Tutorial has the following six (6) sections:

1) **GENERAL INFORMATION** including screens defining:

- The TRIS Database
- TRI Facility ID
- Document Control Number
- Current and Historical Data

2) **USING THE SYSTEM** including screens defining:

- Menus and Selection Criteria
- Keyboard Configuration
- PF Keys
- HELP and Pop-up Windows

3) **ONLINE QUERIES** includes screens defining:

How to use all nine (9) online data searches

4) **BATCH REPORTS** - *(not yet available)*

5) **DATA OFFLOAD** includes screens defining:

How to use the Data Offload function to create an extract file

6) **USER SUPPORT** includes screens defining:

How to use all four (4) user support online functions

8.1 General Information

FUNCTION: This option explains terminology and concepts unique to TRIS. The TRIS database, TRI Facility ID, Document Control Number, and Current and Historical Data are described.

ACCESS: Select option **1** from the Tutorial menu and press **<ENTER>**. The General Information menu screen (Figure 8-2) will appear.

```
PGM: TRU01OP            TOXIC RELEASE INVENTORY SYSTEM              06/03/91
MAP: TRU01OM0           TUTORIAL:  GENERAL INFORMATION              10:41:45
_____________________________________________________________________________

                          1  THE TRIS DATABASE
                          2  TRI FACILITY ID
                          3  DOCUMENT CONTROL NUMBER
                          4  CURRENT AND HISTORICAL DATA



                    Key selection and press <ENTER> ===> _

_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV
```

Figure 8-2

1) To view information on one of the topics, type the corresponding number, either **1, 2, 3,** or **4**, and press **<ENTER>**.

8.2 Using the System

FUNCTION: This option explains the menus system and keyboard configuration using four communications packages: IRMA, CROSSTALK, PROCOMM, and Mainframe. In addition, PF keys and HELP and Pop-up windows are defined.

ACCESS: Select option **2** from the Tutorial menu and press **<ENTER>**. The Using The System menu screen (Figure 8-3) will appear.

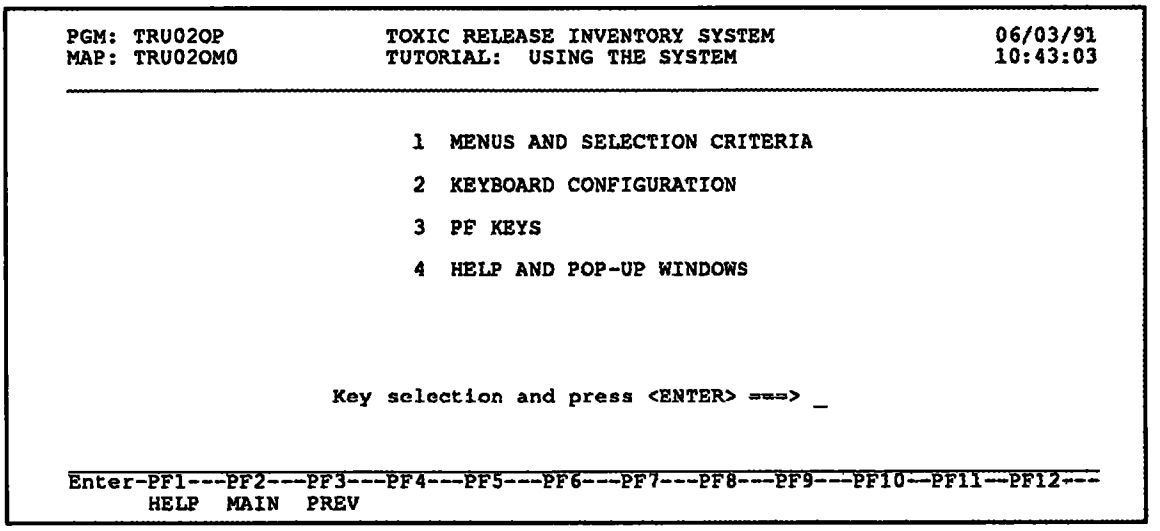

Figure 8-3

1) To view information on one of the topics, type the corresponding number, either **1, 2, 3,** or **4,** and press **<ENTER>**.

8.3 Online Queries

FUNCTION: This option describes how to use all nine (9) online data searches.

ACCESS: Select option 3 from the Tutorial menu and press **<ENTER>**. The Online Queries Tutorial introduction screen (Figure 8-4) will appear.

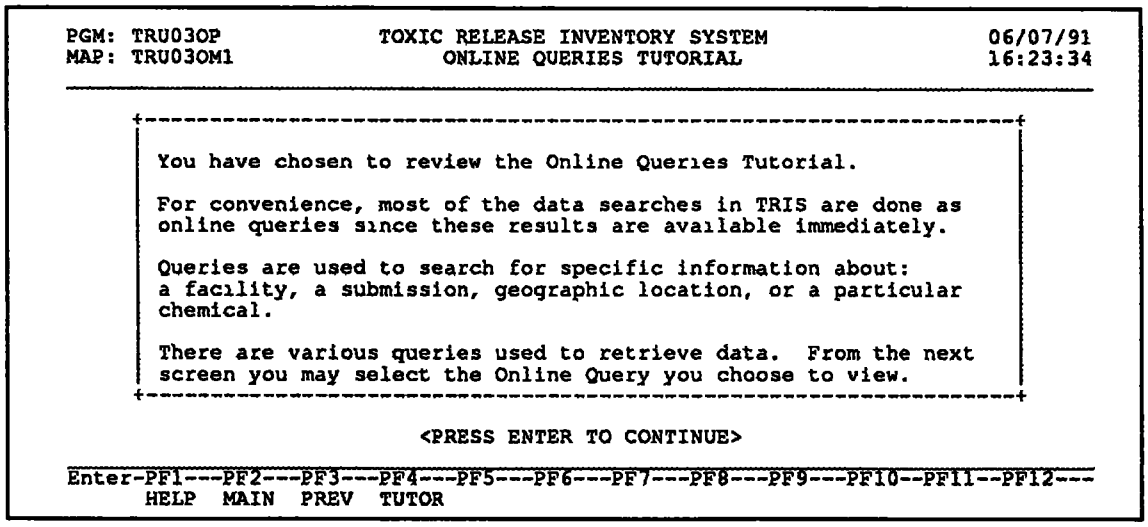

Figure 8-4

1) The Online Queries Tutorial screen provides a brief explanation of the purpose of online queries. The user is prompted to press **<ENTER>** to continue to the next screen and choose one of the queries. This is an interactive tutorial.

2) At the prompt on the Online Queries Tutorial menu, type the ***CORRESPONDING NUMBER*** of the online query to be viewed. Press **<ENTER>**. In this example (Figure 8-5), **1** was selected.

```
PGM: TRU03OP            TOXIC RELEASE INVENTORY SYSTEM                06/07/91
MAP: TRU03OM2                ONLINE QUERIES TUTORIAL                  16:23:58

 1  FACILITY NAME SEARCH                    7  YEAR-TO-YEAR COMPARISON
 2  CITY / COUNTY SEARCH                    8  HISTORICAL FACILITY INFORMATION
 3  CAS / CHEMICAL SEARCH                   9  CHEMICAL TABLE SEARCH
 4  ALTERNATE FACILITY KEY SEARCH          10  Future Use
 5  SUBMISSION DISPLAY                     11  Future Use
 6  POTW / OFF-SITE SEARCH                 12  Future Use
          +-------------------------------------------------------+
          |        Select the query you would like to view        |
          |      by entering the corresponding number ===> __     |
          +-------------- <PRESS ENTER TO CONTINUE> ---------------+

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  TUTOR
```

Figure 8-5

3) Additional HELP information is displayed on a mock Facility Name Search screen (Figure 8-6). Press **<ENTER>** to continue. The tutorial gives the user prompts to type specific data and simulates an online query.

```
PGM: TRU03OP1           TOXIC RELEASE INVENTORY SYSTEM                06/07/91
MAP: TRU03M1B                FACILITY NAME SEARCH                     16:24:10

 REQUIRED          REPORTING YEAR....> ____

                    FACILITY NAME....> ________________

 OPTIONAL                  REGION....> __

     +-------------------------------------------------------------------+
     | This is the Facility Name Search screen, this query is used to    |
     | conduct a search using the 2 required fields, reporting year and  |
     | facility name.  REQUIRED means you must supply data in a field.   |
     | The 5 optional fields (hidden by this window) are used as a means |
     | of narrowing your search.  To view the FULL screen press <PF9/21>.|
     | Fields contain 'POP-UP' windows (Tutorial 2.3), which may be used |
     | whenever you are unsure of what data element to enter in a field. |
     +-------------------- <PRESS ENTER TO CONTINUE> --------------------+

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  TUTOR                              FULL
```

Figure 8-6

8.4 Batch Reports

FUNCTION: *This option is not yet available.*

8.5 Data Offload

FUNCTION: This option describes how to use the Data Offload function to create an extract file.

ACCESS: Select option **5** from the Tutorial menu and press **<ENTER>**. The Data Offload Tutorial introduction screen (Figure 8-7) will appear.

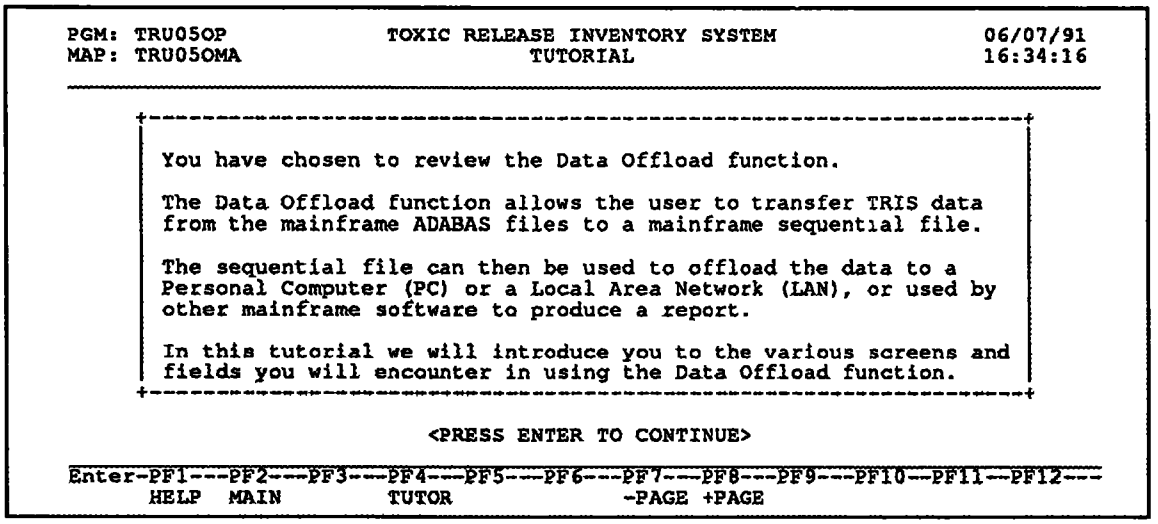

Figure 8-7

1) The Tutorial screen provides a brief explanation of the Data Offload function. The user is prompted to press **<ENTER>** to continue to the next screen and type specific data in required fields. This is an interactive tutorial.

8.6 User Support

FUNCTION: This option provides information on how to use all four user support online functions.

ACCESS: Select **6** from the Tutorial menu and press **<ENTER>**. The User Support Tutorial introduction screen (Figure 8-8) will appear. TRIS User Support is briefly described.

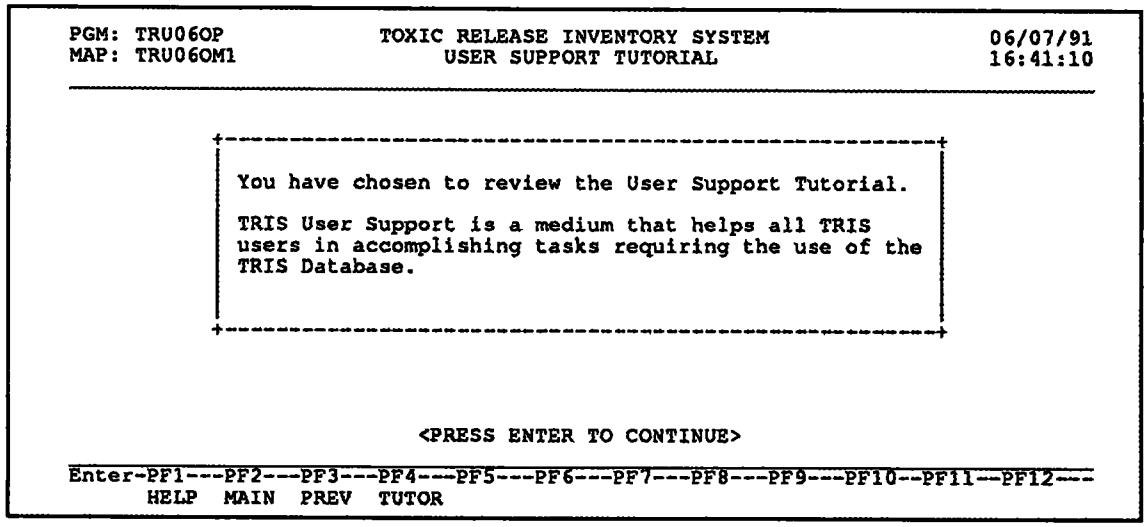

Figure 8-8

1) From the User Support screen, the user is prompted to press **<ENTER>** to continue. This is an interactive tutorial.

2) At the prompt on the User Support Tutorial menu, type the ***CORRESPONDING NUMBER*** of the User Support feature to be viewed. Press **<ENTER>**. In this example (Figure 8-9), **1** was selected.

```
PGM: TRU06OP            TOXIC RELEASE INVENTORY SYSTEM                06/11/91
MAP: TRU06OM2                 USER SUPPORT MENU                       14:03:08

                        1  QUESTIONS AND SUGGESTIONS

                        2  REQUEST DOCUMENTATION

                        3  EXTRACT FILE INFORMATION

                        4  SET PROGRAM FUNCTION (PF) KEYS


                  +-------------------------------------------------+
                  | Please enter the number corresponding to the    |
                  | User Support feature you would like to view or  |
                  | press PF4/16 to return to the TUTORIAL menu => _|
                  +---------- <PRESS ENTER TO CONTINUE> ------------+

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  TUTOR
```

Figure 8-9

3) Additional HELP information is displayed on a mock Questions and Suggestions screen (Figure 8-10). Press **<ENTER>** to continue. The tutorial gives the user prompts to type specific information to simulate submitting an online suggestion.

```
PGM: TRU06OP            TOXIC RELEASE INVENTORY SYSTEM                06/11/91
MAP: TRU06OMB             QUESTIONS AND SUGGESTIONS                   14:03:37

     TO: TRIS User Support              FROM:  LOUISE HYDE
SUBJECT: _____________________________________________________________________
MESSAGE: _____________________________________________________________________
         _____________________________________________________________________
         _____________________________________________________________________
         _____________________________________________________________________
         _____________________________________________________________________
         _____________________________________________________________________
         _____________________________________________________________________

      +-----------------------------------------------------------------+
      | The Questions And Suggestions option allows you to relay messages |
      | to TRIS User Support via this screen.                           |
      |                                                                 |
      | You may send a message regarding any aspect of the EPA internal |
      | TRIS database.  The questions and/or suggestions are reviewed by |
      | a supervisor who will route them to the appropriate personnel.  |
      +--------------------- <PRESS ENTER TO CONTINUE> -----------------+

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV  TUTOR CLEAR                  FULL
```

Figure 8-10

9 USER SUPPORT

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9 USER SUPPORT

FUNCTION: TRIS User Support is a team of dedicated professionals available to all TRIS users connected to the IBM ES/9000 accessing the EPA internal database. Answering questions, providing current updates on TRIS, and receiving feedback from users make up the backbone of TRIS User Support. There are four methods to reach TRIS User Support: Telephone, FAX, EMAIL, and the online User Support function. This chapter discusses the online User Support function.

ACCESS: To select the online User Support function option, type **5** from the Data Retrieval menu and press **<ENTER>**. The User Support menu (Figure 9-1) will appear.

```
PGM: TRP00OP            TOXIC RELEASE INVENTORY SYSTEM                 03/31/91
MAP: TRP00OM1                  USER SUPPORT MENU                       10:48:27
------------------------------------------------------------------------------

                          1  QUESTIONS AND SUGGESTIONS

                          2  REQUEST DOCUMENTATION

                          3  EXTRACT FILE INFORMATION

                          4  SET PROGRAM FUNCTION (PF) KEYS



                   Key selection and press <ENTER> ===> _

------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV
```

Figure 9-1

9.1 Questions and Suggestions

FUNCTION: This function allows users to send questions, suggestions, and general comments to User Support from within the menu-driven system. This function is intended for questions and suggestions that arise while users are operating the online system. Using this function is more convenient than exiting the system, preparing a memo, and then sending it via FAX or electronic mail.

ACCESS: Select option **1** from the User Support menu. The Questions and Suggestions screen (Figure 9-2) will appear.

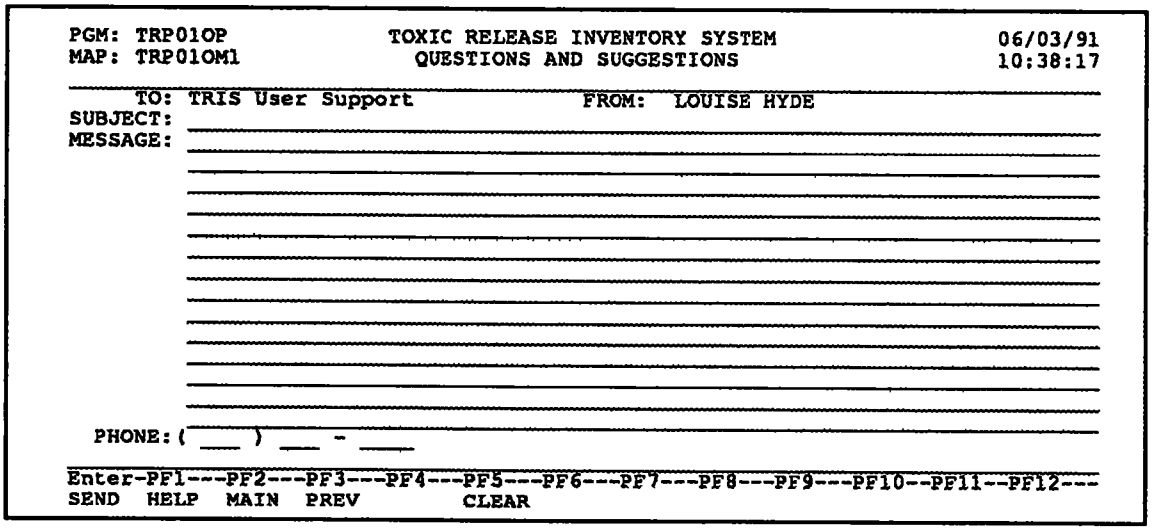

Figure 9-2

1) Type the text of the memo's **SUBJECT** and press **<TAB>**. This is required.

2) Type the text of the **MESSAGE.** Use the **<TAB>** key to advance the cursor.

3) Type your complete **TELEPHONE NUMBER** and press **<ENTER>**. This is required.

4) Upon completion, a pop-up window appears and the user is prompted to confirm whether the message should be sent. Type either **Y** or **N** and press **<ENTER>**.

9.2 Request Documentation

FUNCTION: This option allows the user to submit a request for Documentation from within the menu-driven system.

ACCESS: Select option 2 from the User Support menu. The Request Documentation screen (Figure 9-3) will appear.

```
PGM: TRP02OP            TOXIC RELEASE INVENTORY SYSTEM              03/31/91
MAP: TRP02OM1               REQUEST DOCUMENTATION                   10:48:40
_____________________________________________________________________________
     TO: TRIS User Support              FROM:  LOUISE HYDE

          _  Information Retrieval Users Guide
                Instructions and information for the menu-driven system
          _  Users Quick Reference Card
                Logon/logoff instructions, acronyms, SDSF, JCL
          _  ADABAS File Descriptions
                Revised April 1991 after major system enhancements
          _  NLM Tape Specifications
                Tape format used to supply National Library of Medicine
          _  GPO/NTIS Tape Specifications
                Tape format used for Gov. Printing Office and NTIS
          _  Extract File Specifications
                Extract files on the NCC ES9000

    Please mark documentation you wish to receive with X and press <ENTER>

_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
SEND  HELP  MAIN  PREV        CLEAR
```

Figure 9-3

1) Select specific documentation by typing an **X** in the left column. Press **<TAB>** to advance through the options.

2) Upon completion press **<ENTER>**. A pop-up window appears and the user is prompted to confirm whether the request for documentation should be sent. Type either **Y** or **N** and press **<ENTER>**.

9.3 Extract File Information

FUNCTION: This option provides current information concerning permanent TRIS extract files for each reporting year.

ACCESS: Select option **3** from the User Support menu. The Extract File Information screen (Figure 9-4) will appear.

```
PGM: TRP03OP              TOXIC RELEASE INVENTORY SYSTEM              06/03/91
MAP: TRP03OM1                EXTRACT FILE INFORMATION                 10:40:08

                FILE                                        YEAR      LAST REVISION

 TXLTRID.PROD0419.CHEMICAL.FILE87                           1987        4/19/91

 TXLTRID.PROD0419.FACILITY.FILE87                           1987        4/19/91

 TXLTRID.PROD0419.OFFSITE.FILE87                            1987        4/19/91

 TXLTRID.PROD0419.POTW.FILE87                               1987        4/19/91

 TXLTRID.PROD0419.RELEASE.FILE87                            1987        4/19/91

 TXLTRID.PROD0419.TREAT.FILE87                              1987        4/19/91


              Press <ENTER> to view additional reporting years

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
CONT  HELP  MAIN  PREV
```

Figure 9-4

1) To view additional reporting year information, press **<ENTER>**. Permanent Extract files are available for all reporting years in which the data have been released to the public.

9.4 Set Program Function Keys

FUNCTION: This option allows the user to set the Program Function (PF) keys on their workstation. The PF keys become active immediately and are then the default for subsequent sessions. This option should only be used for dedicated mainframe workstations.

ACCESS: Select option 4 from the User Support menu. The Program Function (PF) Keys screen (Figure 9-5) will appear.

```
PGM: TRP04OP            TOXIC RELEASE INVENTORY SYSTEM                06/03/91
MAP: TRP04OM1             PROGRAM FUNCTION (PF) KEYS                  10:40:45
------------------------------------------------------------------------------

                          1  PF1 through PF12

                          2  PF13 through PF24






                    Key selection and press <ENTER> ===> _

------------------------------------------------------------------------------
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      HELP  MAIN  PREV
```

Figure 9-5

1) To set Program Function keys PF1 through PF12, press **1** and press **<ENTER>**.

2) To set Program Function keys PF13 through PF24, press **2** and press **<ENTER>**.

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APPENDIX A
GLOSSARY

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ADABAS
ADABAS is the database management system utilized by TRIS on NCC's IBM ES/9000.

Batch
Batch is a term carried over from the early days of data processing. Large computer jobs were batched, or grouped together, for overnight processing. It is the opposite of online, or real-time, processing. It applies to functions that potentially take a large amount of computer resources; therefore, these functions are not suitable as online queries. Today these types of jobs do run during business hours; however, they are run in "background" mode so as not to interfere with online response time.

CAS
Chemical Abstract Services assigns CAS registry numbers and names to chemicals.

CICS
Customer Information Communications System. One of two means of interfacing with the IBM ES/9000. See TSO.

Data Element
A single piece of information. For example, the state where a facility is located (i.e., VA) is a single element of information.

Database
A collection of data or information organized for rapid research and retrieval by a computer. Conceptually, it is organized similar to a filing cabinet. Pieces of information (elements), are put together in a file (Form R submission), which are put together in a drawer (database).

DCN
Document Control Number. EPA has designated a number beginning with the type of submission, reporting year, a unique number, and then a two-letter state code, to be a Document Control Number. This number is used to track a single submission through the data entry and information acceptance process.

De Minimis
Mixtures containing "trace" quantities of Section 313 chemical do not have to be reported if they contain less than 1% chemical in the mixture, or less than 0.1% if the chemical is a carcinogen.

Due Date
The Form R for Reporting Year January-December is due on or before July 1 of the following year.

D&B or DUNS
The unique identifying number (nine digits) assigned by Dun and Bradstreet. TRIS carries both parent company and facility DUNS.

ETD
Economics and Technology Division

EPA ID Number
A twelve digit number assigned to facilities covered by hazardous waste regulations under the Resource Conservation and Recovery Act (RCRA).

EPCRA
The Emergency Planning and Community Right-to-Know Act or Section 313 of SARA Title III.

Facility
All buildings, equipment, structures, and other stationary items which are located on a single site or on contiguous or adjacent sites and which are owned or operated by the same person. Owners or operators of a facility must report if the facility has 10 or more full-time employees; is included in the Standard Industrial Classification Codes 20-39; and manufactured (imported, processed, or otherwise used) any listed chemical in quantities equal or greater than the established threshold in one calendar year.

Form R
The Toxic Chemical Release Inventory Reporting Form. A completed Form R must be submitted for each toxic chemical manufactured, processed, or otherwise used at each facility prescribed in the reporting rule.

Form R Facsimile
After information from a Form R is entered into the computer, a printout can be made to approximately look like a Form R (with all the box titles) with the information placed in the appropriate box. This facsimile can be useful to verify that the information has been entered into the computer correctly.

IMD
Information Management Division

Influent
A fluid input into a reservoir or a process.

JCL
Job Control Language. JCL are codes that tell a computer how to answer a question (i.e., job priority), who is asking the question (i.e., user name), and how to answer the question (i.e., to a printer).

Latitude/Longitude
Latitude is the distance north or south of the equator. Longitude is the distance east or west of the prime meridian. To determine the latitude and longitude of the facility, a topographic map from the United States Geological Survey (USGS) must be used.

Manufacture
To produce, prepare, compound, or import a listed toxic chemical.

NATP
The NATURAL Production environment.

NATURAL
The programming language utilized by TRIS.

NCC
National Computer Center. This is where EPA's IBM ES/9000 is located.

NCSS
The Non-Confidential Systems Section is in the Public Data Branch (PDB), within the Information Management Division (IMD) of the Office of Toxic Substances (OTS).

NLM
National Library of Medicine. This is where the public version of the TRI database resides.

NPDES
National Pollution Discharge Elimination System. It represents a nine digit number assigned to a facility by EPA or the State under the authority of the Clean Water Act.

OCM
Office of Compliance Monitoring

Online
Online indicates a direct computer link. Requests are answered directly back to the computer screen.

Online HELP
A key can be pressed to display helpful information on how to proceed while using a computer system. In TRIS, this is <PF1/13>.

Otherwise Use
Any use of a listed chemical at a facility that does not fall under the definitions of "manufacture" or "process".

OTS
Office of Toxic Substances

Parent Company
The corporation or other business entity that is the ultimate United States parent company over the reporting facility(s).

PDB
Public Data Branch

PF Keys
The Program Function keys (usually at the top of a computer keyboard) can be programmed to make a system easy for the user. They may be marked "F1" on a PC or "PF1" on a mainframe terminal.

POTW
Publicly Owned Treatment Works

Process
The preparation of a listed toxic chemical, after its manufacture, for distribution in commerce.

Query
A question made to a computer, also known as: Online Search.

RCRA
Resource Conservation and Recovery Act

Reporting Package
The TRIS Reporting Package is mailed each year in January to facilities which submitted a Form R the previous reporting year. The Reporting Package includes the latest Form R and detailed instructions on how to successfully complete it.

Reporting Year
The Reporting Year is the calendar year being reported. For example, the Form R for Reporting Year 1989 is due July 1, 1990, and covers toxic chemical releases from January 1, 1989 to December 31, 1989.

RTP
Research Triangle Park is the location of the National Computer Center (NCC).

Sanitized Form R
The generic copy of the Form R (see Trade Secret).

SARA
Superfund Amendments and Reauthorization Act of 1986. On October 17, 1986, the President signed into law the Superfund Amendments and Reauthorization Act of 1986 (SARA). Title III, Section 313 of SARA, known as the Emergency Planning and Community Right-to-Know Act, mandates that an inventory of toxic chemicals released into the air, water, or land must be maintained by the EPA, and that EPA must make this information available to the public.

SDSF
Spool Display and Search Facility. It is a software product used on the IBM ES/9000 by which output held on the system can be viewed online.

Section 313
Section 313 is that part of Title III of SARA that requires owners and operators of certain facilities that manufacture, process, or otherwise use a listed chemical to report annually their releases of listed chemicals to any environmental medium. Section 313 also specifies that EPA must publish a uniform toxic chemical release form.

Section 328
Provides EPA with the authority to promulgate such regulation as may be necessary to carry out the purposes of Title III.

SIC
Standard Industrial Classification. SIC Codes classify business establishments by specific activities that are performed at a single physical location. The first two digits of a four-digit SIC code define a major business sector and the last two digits denote a facility's specialty within the major sector.

Submission
A Form R from a single facility containing release and transfer information for a single chemical that is entered into the Toxic Chemical Release Inventory database.

Threshold

Section 313 reporting is required if threshold quantities are exceeded. The thresholds vary depending upon the year for which the report is submitted and separate thresholds apply to the amount of the chemical that is manufactured, processed, or otherwise used. A facility must report for any listed chemical that is manufactured or processed over the course of the year in excess of the following threshold:

For calendar year 1987:	75,000 pounds
For calendar year 1988:	50,000 pounds
For calendar year 1989 and subsequent years:	25,000 pounds

A facility must report if the quantity of a listed chemical that is otherwise used is 10,000 pounds during the course of a calendar year.

Trade Secret

As prescribed in 40 CFR Part 350, published July 29, 1988 in the Federal Register (53 FR 28772), a facility can claim the CAS registry number and chemical name as trade secret. Two Form Rs must be submitted for a chemical whose identity is claimed as a trade secret, one with the a generic chemical name, and one that identifies the chemical. Only the information from the generic one will be available to the public. A facility must have approval from EPA to claim a toxic chemical as a trade secret.

TRIS

Toxic Chemical Release Inventory System (or TRI System). It is the computer system designed by EPA to track the annual estimated release of toxic chemicals into the environment. TRIS is a management tool used for collection and organization of toxic chemical release data received from industries regulated under SARA.

TRISH

The NATURAL application library where end-users can perform their own programming against the TRIS ADABAS files.

TRISONLN

The NATURAL application library where the online menu-driven system resides.

TRI Data
All the pieces of information reported to EPA on Form R is sometimes referred to as TRI data or Toxic Release Inventory Data.

TRI System
See TRIS

TRI Facility ID
EPA has designated a Facility ID (consisting of letters and numbers) to identify a Facility. It is analogous to a social security number. The TRI Facility ID makes it possible to track submissions from a facility across all reporting years.

TSO
Time Sharing Option. One of two means of interfacing with the IBM ES/9000, (see CICS).

UIC
Underground Injection Well Code. Twelve-digit number that permits a facility to inject toxic chemicals into Class 1 deep wells. Numbers are assigned by EPA or by the State under the authority of the Safe Drinking Water Act.

APPENDIX B
SAMPLE BATCH REPORTS

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FORM R FACSIMILE

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TRR04BF1 PAGE 1 U S. ENVIRONMENTAL PROTECT ON AGENCY DCN : 13-89-03000382-4-DE
06/13/91 TOXIC CHEMICAL RELEASE INVENTORY REPO TING FORM FACSIMILE TRIFID: 19809DPNTD104HA
PART I. FACILITY IDENTIFICATIO. INFORMATION

1.1 ARE YOU CLAIMING IDENTITY ON PAGE 3 TRADE SECRET? 1.2 IF YES IN 1.1, IS THIS COPY: 1.3 REPORTING YEAR

1 < > YES < X > NO < > SANITIZED < > UNSANITIZED 1989

2. CERTIFICATION NAME
JOHN S KLOSS

CERTIFICATION TITLE DATE SIGNED
PLANT MANAGER 06/10/90

3. FACILITY IDENTIFICATION
3.1 FACILITY OR ESTABLISHMENT NAME
DU PONT EDGE MOOR
STREET ADDRESS
104 MAY RD.
CITY COUNTY
WILMINGTON NEW CASTLE
STATE ZIP CODE
DE 19809

3.2 THIS REPORT CONTAINS INFORMATION FOR: A. < X > ENTIRE FACILITY B. < > PART OF A FACILITY
3.3 TECHNICAL CONTACT TELEPHONE NUMBER
JOHN C. CHANEY 302-761-2298
3.4 PUBLIC CONTACT TELEPHONE NUMBER
JOHN C. CHANLY 302-761-2298

3.5 SIC CODE
A. 2816

3.6 LATITUDE: 394449 LONGITUDE: 752530

3.7 DUN AND BRADSTREET NUMBERS
A. 154407845

3.8 EPA IDENTIFICATION NUMBERS (RCRA I.D. NO.)
A. DED000800284

3.9 NPDES PERMIT NUMBERS
A. DE0000051 B. DE0050644

RECEIVING STREAMS OR WATER BODIES
A. DELAWARE RIVER
3.10 B.
C.

3.11 UNDERGROUND INJECTION WELL CODE (UIC) IDENTIFICATION NUMBERS / NA B.

4. PARENT COMPANY INFORMATION
4.1 NAME OF PARENT COMPANY: DUPONT
4.2 PARENT COMPANY'S DUN AND BRADSTREET NUMBER: 001315704

TRR04BF2 PAGE 2
06/13/91

T R I S FACSIMILE FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

DCN : 13-89-03000382-4-DE
TRIFID: 19809DPNTD104HA

1. PUBLICLY OWNED TREATMENT WORKS (POTWS)

1.1 POTW NAME
NA
STREET ADDRESS

CITY | COUNTY

STATE | ZIP CODE

1.2 POTW NAME

STREET ADDRESS

CITY | COUNTY

STATE | ZIP CODE

---

2. OTHER OFF-SITE LOCATIONS

2.1 OFF-SITE LOCATION NAME
DU PONT CHERRY ISLAND
EPA IDENTIFICATION NUMBER (RCRA ID. NO.)
NA
STREET ADDRESS
MAY ROAD
CITY: EDGEMOOR | COUNTY: NEW CASTLE
STATE: DE | ZIP: 19809
IS LOCATION UNDER CONTROL OF REPORTING FACILITY?
< X > YES < > NO

2.2 OFF-SITE LOCATION NAME

EPA IDENTIFICATION NUMBER (RCRA ID. NO.)

STREET ADDRESS

CITY | COUNTY

STATE | ZIP

IS LOCATION UNDER CONTROL OF REPORTING FACILITY ?
< > YES < > NO

2.3 OFF-SITE LOCATION NAME

EPA IDENTIFICATION NUMBER (RCRA ID. NO.)

STREET ADDRESS

CITY | COUNTY

STATE | ZIP

IS LOCATION UNDER CONTROL OF REPORTING FACILITY?
< > YES < > NO

2.4 OFF-SITE LOCATION NAME

EPA IDENTIFICATION NUMBER (RCRA ID. NO.)

STREET ADDRESS

CITY | COUNTY

STATE | ZIP

IS LOCATION UNDER CONTROL OF REPORTING FACILITY ?
< > YES < > NO

2.5 OFF-SITE LOCATION NAME

EPA IDENTIFICATION NUMBER (RCRA ID. NO.)

STREET ADDRESS

CITY | COUNTY

STATE | ZIP

IS LOCATION UNDER CONTROL OF REPORTING FACILITY?
< > YES < > NO

2.6 OFF-SITE LOCATION NAME

EPA IDENTIFICATION NUMBER (RCRA ID. NO.)

STREET ADDRESS

CITY | COUNTY

STATE | ZIP

IS LOCATION UNDER CONTROL OF REPORTING FACILITY ?
< > YES < > NO

TRR04BF3 PAGE 3
06/13/91

T R I S FACSIMILE FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

DCN : 13-89-03000382-4-DE
TRIFID: 19809DPNTD104HA

1. CHEMICAL IDENTITY
1.1 (RESERVED)
1.2 CAS NUMBER
000463-58-1
1.3 CHEMICAL OR CHEMICAL CATEGORY NAME
CARBONYL SULFIDE
1.4 GENERIC CHEMICAL NAME

2. MIXTURE COMPONENT IDENTITY
NA

---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY

3.1	MANUFACTURE THE CHEMICAL:	A. < X > PRODUCE		C. < > FOR ON-SITE USE/PROCESSING		D. < > FOR SALE/ DISTRUBUTION		
		B. < > IMPORT		E. < X > AS A BYPRODUCT		F. < > AS AN IMPURITY		
3.2	PROCESS THE CHEMICAL:	A. < > AS A REACTANT		B. < > AS A FORMULATION COMPONENT		C. < > AS AN ARTICLE COMPONENT		
		D. < > REPACKAGING ONLY						
3.3	OTHERWISE USE THE CHEMICAL:	A. < > AS A CHEMICAL PROCESSING AID		B. < > MANUFACTURING AID		C. < > ANCILLARY OR OTHER USE		

---

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR
01

---

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE			A.1 REPORTING RANGES			A.2	BASIS OF ESTIMATE		
			0	1-499	500-999	ESTIMATE			
5.1 FUGITIVE OR NON-POINT AIR EMISSIONS		5.1A				NA	5.1B	NA	
5.2 STACK OR POINT AIR EMISSIONS		5.2A				680000	5.2B	M	
5.3 DISCHARGES TO RECEIVING STREAMS OR WATER BODIES	5.3.1A	5.3.1A				NA	5.3.1B	C.% STORMWATER	5.3.1C
	5.3.2B	5.3.2A					5.3.2B		5.3.2C
	5.3.3C	5.3.3A					5.3.3B		5.3.3C
5.4 UNDERGROUND INJECTION		5.4A				NA	5.4B	NA	
5.5 RELEASES TO LAND									
5.5.1 ON-SITE LANDFILL		5.5.1A				NA	5.5.1B	NA	
5.5.2 LAND TREATMENT/APPLICATION FARMING		5.5.2A				NA	5.5.2B	NA	
5.5.3 SURFACE IMPOUNDMENT		5.5.3A				NA	5.5.3B	NA	
5.5.4 OTHER DISPOSAL		5.5.4A				NA	5.5.4B	NA	

TRR04BF4 PAGE 4
06/13/91

T R I S FACSIMILE FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

DCN : 13-89-03000382-4-DE
TRIFID: 19809DPNTD104HA

TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

		A.1 REPORTING RANGES 0	1-499	500-999	A.2 ESTIMATE	B. BASIS OF ESTIMATE	C. TYPE OF TREATMENT/ DISPOSAL
6.1.1 DISCHARGE TO POTW	1.1					6.1.1B	
6.1.2 DISCHARGE TO POTW	1.2					6.1.2B	
6.2.1 OTHER OFF-SITE	2.1				NA	6.2.1B	6.2.1C
6.2.2 OTHER OFF-SITE	2.2					6.2.2B	6.2.2C
6.2.3 OTHER OFF-SITE	2.3					6.2.3B	6.2.3C
6.2.4 OTHER OFF-SITE	2.4					6.2.4B	6.2.4C
6.2.5 OTHER OFF-SITE	2.5					6.2.5B	6.2.5C
6.2.6 OTHER OFF-SITE	2.6					6.2.6B	6.2.6C

7. WASTE TREATMENT METHODS AND EFFICIENCY

	A. GENERAL WASTESTREAM	B. TREATMENT METHOD	C. RANGE INFLUENT CONCENTRATION	D. SEQUENTIAL TREATMENT	E. TREATMENT EFF ESTIMATE		F. BASED ON OPERATING DATA YES	NO
7.1A	A	7.1B A03	7.1C 2	7.1D	7.1E	0.00	7.1F	X
7.2A		7.2B	7.2C	7.2D	7.2E	0.00	7.2F	
7.3A		7.3B	7.3C	7.3D	7.3E	0.00	7.3F	
7.4A		7.4B	7.4C	7.4D	7.4E	0.00	7.4F	
7.5A		7.5B	7.5C	7.5D	7.5E	0.00	7.5F	
7.6A		7.6B	7.6C	7.6D	7.6E	0.00	7.6F	
7.7A		7.7B	7.7C	7.7D	7.7E	0.00	7.7F	
7.8A		7.8B	7.8C	7.8D	7.8E	0.00	7.8F	
7.9A		7.9B	7.9C	7.9D	7.9E	0.00	7.9F	
7.10A		7.10B	7.10C	7.10D	7.10E	0.00	7.10F	

8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

A. TYPE OF MODIFICATION	B. QUANTITY OF THE CHEMICAL IN WASTES PRIOR TO TREATMENT OR DISPOSAL			C. INDEX	D. REASON FOR ACTION
	CURRENT YEAR	PRIOR YEAR	OR PCT CHANGE		
M4	680000	840000	-19.00	1.1	R4

YEAR-TO-YEAR RELEASE/TRANSFER COMPARISON

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TRR10BP
PAGE: 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
TOXIC RELEASE INVENTORY SYSTEM
YEAR-TO-YEAR RELEASE/TRANSFER COMPARISON REPORT

08/13/91
09:47:05

TRI FACILITY ID: 19809DPNTD104HA *** NOTE: HISTORY RECORDS EXIST - THE NAME/ADDRESS INFO MAY BE DIFFERANT FOR PREVIOUS YEAR
FACILITY NAME : DU PONT EDGE MOOR
ADDRESS : 104 HAY RD.
WILMINGTON DE 19809

CHEMICAL: ALL CHEMICALS EXCLUDING DELISTED CHEMICALS

	1987	1988	% OF CHANGE	1989	% OF CHANGE	1990	% OF CHANGE	1991	% OF CHANGE
# OF SUBMISSIONS	8	7	-13	6	-15	0		0	
RELEASES									
FUGITIVE AIR	101774	22174	-79	38624	+74	0		0	
STACK AIR	935231	957010	+2	786240	-18	0		0	
WATER	1071025	19770	-99	270	-99	0		0	
UNDERGROUND	0	0		0		0		0	
LAND	0	39		48	+23	0		0	
TOTAL RELEASES	2108030	998993	-53	825182	-18	0		0	
TRANSFERS									
POTW	0	0		0		0		0	
OFF SITE	553000	1250000	+126	0		0		0	
TOTAL TRANSFER	553000	1250000	+126	0		0		0	

THE PERCENT CHANGE WILL BE CALCULATED ONLY IF BOTH APPLICABLE REPORTING YEARS ARE GREATER THAN ZERO.

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FACILITY PROFILE REPORT

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TRR03BP                                  UNITED STATES ENVIRONMENTAL PROTECTION AGENCY                    06/13/91
PAGE:      1                                     TOXIC RELEASE INVENTORY SYSTEM                          21:02:25

FACILITY PROFILE REPORT FOR FACILITY ID: 19809DPNTD104HA

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REGION  TRI-FACILITY-ID     EPA ID                NAME          : DU PONT EDGE MOOR
  03    19809DPNTD104HA     DED000800284          ADDRESS       : 104 HAY RD.
                                                  CITY/STATE/ZIP: WILMINGTON, DE 19809

DOCUMENT CONTROL NUMBER  : 13-89-03000382-4-DE
REPORTING YEAR           : 1989
RPTG FOR ENTIRE FACILITY : A     (AN ENTIRE COVERED FACILITY)
MAXIMUM AMOUNT CODE      : 01    (0--99)
CHEMICAL ID              : 000463-58-1
CHEMICAL NAME            : CARBONYL SULFIDE
MIXTURE COMPONENT ID     : NA
CERTIFICATION NAME       : JOHN S. KLOSS
CERTIFICATION TITLE      : PLANT MANAGER
CERTIFICATION DATE SIGNED: 06/10/90
CERT. SIGNATURE INDICATOR: P     (PHOTO COPY)
FACILITY COUNTY          : NEW CASTLE
ASSIGNED DUNS NUMBER     : 154407845
ASSIGNED EPA ID          : DED000800284
STATE/COUNTY FIPS CODE   : 10003
ASSIGN CENTROID LATITUDE :   394630
ASSIGN CENTROID LONGITUDE:  -752942
LATITUDE                 :   394449
LONGITUDE                :  -752530
PARENT COMPANY NAME      : DUPONT
PARENT DUNS NUMBER       : 001315704
TECHNICAL CONTACT NAME   : JOHN C. CHANEY
TECHNICAL CONTACT PHONE  : (302) 761-2298
PUBLIC CONTACT NAME      : JOHN C. CHANEY
PUBLIC CONTACT PHONE     : (302) 761-2298
UIC ID                   : NA
MAGNETIC MEDIA ID        : D1353

** WASTE MINIMIZATION **
WASTE MINIMUM CODE            : M4     (PROCESS PROCEDURE MODIFICATIONS)
WASTE MINIMUM CURRENT YEAR QTY:           680,000
WASTE MINIMUM CRT YEAR QTY N/A:
WASTE MINIMUM PRIOR YEAR QTY  :           840,000
WASTE MINIMUM PRIOR YR QTY N/A:
WASTE MINIMUM PERCENT CHANGE  :  -19.00
WASTE MININUM INDEX           :  1.1
WASTE MINIMUM ACTION CODE     : R4     (SELF-INITIATED REVIEW)

EPA ID NUMBER(S)      : DED000800284

DUNS NUMBER(S)        : 154407845

SIC-CODE(S)           : 2816

NPDES PERMIT NUMBER(S): DE0000051 DE0050644
```

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
TOXIC RELEASE INVENTORY SYSTEM

FACILITY PROFILE REPORT FOR FACILITY ID: 19809DPNTD104HA

REGION	TRI-FACILITY-ID	EPA ID		
03	19809DPNTD104HA	DED000800284	NAME	: DU PONT EDGE MOOR
			ADDRESS	: 104 HAY RD.
			CITY/STATE/ZIP:	WILMINGTON, DE 19809

** TYPES OF ACTIVITY/USES **

MANUFACTURE	: PRODUCE	BYPRODUCT

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TRR03BP                                  UNITED STATES ENVIRONMENTAL PROTECTION AGENCY                    06/13/91
PAGE:      3                                      TOXIC RELEASE INVENTORY SYSTEM                         21:02:25

FACILITY PROFILE REPORT FOR FACILITY ID: 19809DPNTD104HA

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REGION  TRI-FACILITY-ID     EPA ID                NAME          : DU PONT EDGE MOOR
  03    19809DPNTD104HA     DED000800284          ADDRESS       : 104 HAY RD.
                                                  CITY/STATE/ZIP: WILMINGTON, DE 19809

** FUGITIVE OR NON-POINT AIR EMISSIONS **
REPORTING RANGE       :
ESTIMATE              :              0
ESTIMATE N/A          : Y
BASIS OF ESTIMATE     : NA


** STACK OR POINT AIR EMISSIONS **
REPORTING RANGE       :
ESTIMATE              :        680,000
ESTIMATE N/A          :
BASIS OF ESTIMATE     : M      (BASED ON MONITORING DATA OR MEASUREMENTS)


** DISCHARGE TO WATER **
STREAM CODE           : A
STREAM NAME           : DELAWARE RIVER
REPORTING RANGE       :
ESTIMATE              :              0
ESTIMATE N/A          : Y
BASIS OF ESTIMATE     :
% FROM STORMWATER     :    0.00
% FROM STORMWATER N/A :


** UNDERGROUND INJECTION **
REPORTING RANGE       :
ESTIMATE              :              0
ESTIMATE N/A          : Y
BASIS OF ESTIMATE     : NA


** RELEASE TO LAND **
LAND DISPOSAL CODE    : D02    (ON-SITE LANDFILL)
REPORTING RANGE       :
ESTIMATE              :              0
ESTIMATE N/A          : Y
BASIS OF ESTIMATE     : NA
```

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
TOXIC RELEASE INVENTORY SYSTEM

FACILITY PROFILE REPORT FOR FACILITY ID: 19809DPNTD104HA

REGION	TRI-FACILITY-ID	EPA ID	NAME	: DU PONT EDGE MOOR
03	19809DPNTD104HA	DED000800284	ADDRESS	: 104 HAY RD.
			CITY/STATE/ZIP:	WILMINGTON, DE 19809

** RELEASE TO LAND **
LAND DISPOSAL CODE : D03 (LAND TREATMENT/APPLICATION FARMING)
REPORTING RANGE :
ESTIMATE : 0
ESTIMATE N/A : Y
BASIS OF ESTIMATE : NA

** RELEASE TO LAND **
LAND DISPOSAL CODE : D05 (SURFACE IMPOUNDMENT)
REPORTING RANGE :
ESTIMATE : 0
ESTIMATE N/A : Y
BASIS OF ESTIMATE : NA

** RELEASE TO LAND **
LAND DISPOSAL CODE : D99 (OTHER DISPOSAL)
REPORTING RANGE :
ESTIMATE : 0
ESTIMATE N/A : Y
BASIS OF ESTIMATE : NA

** DISCHARGE TO POTW **
FACILITY NAME : NA
STREET ADDRESS :
CITY :
COUNTY :
STATE :
ZIP CODE :
REPORTING RANGE :
ESTIMATE : 0
ESTIMATE N/A :
BASIS OF ESTIMATE :

FACILITY PROFILE REPORT FOR FACILITY ID: 19809DPNTD104HA

REGION	TRI-FACILITY-ID	EPA ID	NAME	: DU PONT EDGE MOOR
03	19809DPNTD104HA	DED000800284	ADDRESS	: 104 HAY RD.
			CITY/STATE/ZIP:	WILMINGTON, DE 19809

** OTHER OFF-SITE LOCATION **

OFF-SITE ID	: 19809DPNTCHAYRO	
OFF-SITE LOCATION CODE	: 1	
EPA ID (RCRA ID NO.)	: NA	
FACILITY NAME	: DU PONT CHERRY ISLAND	
STREET ADDRESS	: HAY ROAD	
CITY	: EDGEMOOR	
COUNTY	: NEW CASTLE	
STATE	: DE	
ZIP CODE	: 19809	
CONTROL OF RPT. FACIL.	: Y	(YES, LOCATION IS UNDER CONTROL OF REPORTING FACILITY OR PARENT COMPANY)
REPORTING RANGE	:	
ESTIMATE	: 0	
ESTIMATE N/A	: Y	
BASIS OF ESTIMATE	:	
TREATMENT/DISPOSAL	:	

** WASTE TREATMENT METHODS AND EFFICIENCY **

GENERAL WASTESTREAM CODE	: A	(GASEOUS (INCLUDING GASES, VAPORS, AIRBORNE PARTICULATES))
TREATMENT METHOD CODE	: A03	(SCRUBBER)
RANGE OF INFLUENTAL CONCENT. CODE	: 2	(100 PARTS PER MILLION (0.01 PERCENT) TO 1 PERCENT (10,000 PARTS PER MILLION))
SEQUENTIAL TREATMENT	:	
TREATMENT EFFICIENCY ESTIMATE	: 0.00	
BASED ON OPERATING DATA	: N	(NO, TREATMENT EFFICIENCY ESTIMATE IS NOT BASED ON ACTUAL OPERATING DATA)

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CHEMICAL/GEOGRAPHIC/ SIC CODE REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
TOXIC RELEASE INVENTORY SYSTEM
CHEMICAL/GEOGRAPHICAL/SIC CODE REPORT, REPORTING YEAR: 1989

REGION: 03 * STATE: VA * CITY: RICHMOND * * ZIP CODE: 00000 THRU 99999

DATA SORTED BY: * #FACIL-STATE * #FACIL-CITY * * * * *

FACILITY NAME / ADDRESS / DOCUMENT CONTROL NUM	CHEMICAL NAME	FUG AIR	STACK AIR	WATER	UNDER INJ	LAND
JAMES RIVER CORP. FILTRATION PRODUCTS DIV-RICHMOND TREDEGAR ST. RICHMOND, VA 23219						
13-89-03532178-5-VA	FORMALDEHYDE	0	14,000	1	0	0
13-89-03532179-7-VA	PHENOL	0	19,000	7	0	0
13-89-03532180-9-VA	METHANOL	180,000	1,200,000	160	0	0
*** TOTALS FOR JAMES RIVER CORP. FILTRATION		180,000	1,233,000	168	0	0
REHRIG INTERNATIONAL 901 NORTH LOMBARDY ST. RICHMOND, VA 23220						
13-89-03558346-3-VA	NICKEL	0	0	0	0	0
13-89-03558347-5-VA	HYDROCHLORIC ACID	73	146	0	0	0
*** TOTALS FOR REHRIG INTERNATIONAL		73	146	0	0	0
U.S. HISTORICAL SOCIETY 2422 EAST FRANKLIN ST. RICHMOND, VA 23223						
13-89-03573005-0-VA	LEAD	0	250	0	0	0
*** TOTALS FOR U.S. HISTORICAL SOCIETY		0	250	0	0	0
J.M. FRY CO. INC. 830 HULL ST. RICHMOND, VA 23224						
13-89-03542988-5-VA	COPPER COMPOUNDS	0	0	0	0	0

250 LBS WAS USED FOR RELEASE ESTIMATE FOR 1-499 REPORTING RANGE, 750 LBS FOR 500-999 RANGE

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REGIONAL TRIS SUBMISSIONS REPORT

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PAGE: 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
TOXIC RELEASE INVENTORY SYSTEM
REGIONAL TRIS SUBMISSIONS REPORT

08/12/91
16:02:17

YEAR: 1989 REGION: 03 STATE: VA ZIP CODES: 00000 THRU 99999

TRI FACIL ID/ DOC CNTL NUM	FACILITY NAME	FACILITY ADDRESS	TECH CONTACT NAME/ PHONE NUMBER	CAS NUMBER/ CHEMICAL NAME
24210STRLNNORWO 13-89-03506491-6-VA	STERLING CASKET HARDWARE CO.	NORWOOD RD. ABINGDON VA 24210	BEN B. SCOTT (703) 628-7153	71-55-6 1,1,1-TRICHLOROETHANE
24210WSTNGHIGHW 13-89-03524000-9-VA	WESTINGHOUSE ELECTRIC CORP. EMD	HWY. 11 WESTINGHOUSE RD. ABINGDON VA 24210	LISA M. GENTRY (703) 676-9152	1330-20-7 XYLENE (MIXED ISOMERS)
24210WSTNGHIGHW 13-89-03524001-1-VA	WESTINGHOUSE ELECTRIC CORP. EMD	HWY. 11 WESTINGHOUSE RD. ABINGDON VA 24210	LISA M. GENTRY (703) 676-9152	1319-77-3 CRESOL (MIXED ISOMERS)
24210WSTNGHIGHW 13-89-03524002-3-VA	WESTINGHOUSE ELECTRIC CORP. EMD	HWY. 11 WESTINGHOUSE RD. ABINGDON VA 24210	LISA M. GENTRY (703) 676-9152	7440-50-8 COPPER
24210WSTNGHIGHW 13-89-03524003-5-VA	WESTINGHOUSE ELECTRIC CORP. EMD	HWY. 11 WESTINGHOUSE RD. ABINGDON VA 24210	LISA M. GENTRY (703) 676-9152	108-95-2 PHENOL
23301PRDNCROUTE 13-89-03580523-7-VA	PERDUE FARMS INC.	U.S. RTE. 13 ACCOMAC VA 23301	JAMES EICHELBERGER (804) 787-2700	7782-50-5 CHLORINE
23301PRDNCROUTE 13-89-03580524-9-VA	PERDUE FARMS INC.	U.S. RTE. 13 ACCOMAC VA 23301	JAMES EICHELBERGER (804) 787-2700	7664-41-7 AMMONIA
23301PRDNCROUTE 13-89-03580525-2-VA	PERDUE FARMS INC.	U.S. RTE. 13 ACCOMAC VA 23301	JAMES EICHELBERGER (804) 787-2700	7664-93-9 SULFURIC ACID
22312TLNTC5390C 13-89-03575229-6-VA	ATLANTIC RESEARCH CORP.	5390 CHEROKEE AVE. ALEXANDRIA VA 22312	JENNIFER G. FOSTER (703) 642-6448	1332-21-4 ASBESTOS (FRIABLE)
22312TLNTC5390C 13-89-03575230-8-VA	ATLANTIC RESEARCH CORP.	5390 CHEROKEE AVE. ALEXANDRIA VA 22312	JENNIFER G. FOSTER (703) 642-6448	71-55-6 1,1,1-TRICHLOROETHANE

TRR05BP
PAGE: 170

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
TOXIC RELEASE INVENTORY SYSTEM
REGIONAL TRIS SUBMISSIONS REPORT

08/12/91
16:02:21

YEAR: 1989 REGION: 03 STATE: VA ZIP CODES: 00000 THRU 99999

TRI FACIL ID/ DOC CNTL NUM	FACILITY NAME	FACILITY ADDRESS	TECH CONTACT NAME/ PHONE NUMBER	CAS NUMBER/ CHEMICAL NAME

****
* REPORT SUMMARY *
****

TOTAL NUMBER OF SUBMISSIONS = 1667

TOTAL NUMBER OF FACILITIES = 473

LIST OF ALL CAS NUMBERS (WITH CHEMICAL NAMES) USED:

50-00-0 FORMALDEHYDE
55-63-0 NITROGLYCERIN
56-23-5 CARBON TETRACHLORIDE
63-25-2 CARBARYL
67-56-1 METHANOL
67-63-0 ISOPROPYL ALCOHOL (MANUFACTURING, STRONG-ACID PROCESS ONLY, NO PROCESS
67-64-1 ACETONE
67-66-3 CHLOROFORM
67-72-1 HEXACHLOROETHANE
71-36-3 N-BUTYL ALCOHOL
71-43-2 BENZENE
71-55-6 1,1,1-TRICHLOROETHANE
74-85-1 ETHYLENE
74-87-3 CHLOROMETHANE
75-00-3 CHLOROETHANE
75-05-8 ACETONITRILE
75-07-0 ACETALDEHYDE
75-09-2 DICHLOROMETHANE
75-15-0 CARBON DISULFIDE
75-21-8 ETHYLENE OXIDE
75-35-4 VINYLIDENE CHLORIDE
75-55-8 PROPYLENEIMINE
75-56-9 PROPYLENE OXIDE
75-65-0 TERT-BUTYL ALCOHOL
76-13-1 FREON 113
77-78-1 DIMETHYL SULFATE
78-84-2 ISOBUTYRALDEHYDE
78-87-5 1,2-DICHLOROPROPANE
78-93-3 METHYL ETHYL KETONE
79-01-6 TRICHLOROETHYLENE
79-06-1 ACRYLAMIDE
79-10-7 ACRYLIC ACID
79-11-8 CHLOROACETIC ACID
80-62-6 METHYL METHACRYLATE

POTW/OFF-SITE LOCATION REPORT

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TRR02BP UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 08/13/91
PAGE: 1 TOXIC RELEASE INVENTORY SYSTEM
09:45:08.2

POTW/OFF-SITE LOCATION REPORT

POTW/OFF-SITE LOCATION REPORT FOR TRI-OFF-SITE-ID 53150BFWSTW143S **POTW/OFF-SITE NAME: BFI WASTE SYSTEMS TOWN &
STREET: W143 S6400 COLLEGE CT. / COUNTY: WAUKESHA / CITY: MUSKEGO / STATE: WI / ZIP: 53150

REGION TRI-FACILITY-ID: 53187LLYPR1045P NAME : ALLOY PRODUCTS CORP.
EPA-ID : WID006077978 ADDRESS : 1045 PERKINS AVE.
DOC-CNTL-NUM : 13-89-03581823-4-WI CITY/STATE/ZIP: WAUKESHA, WI 53187

CAS NUMBER : 000071-55-6 SIC CODE: 3551
CHEMICAL NAME: 1,1,1-TRICHLOROETHANE

TYPE OF TRANSFER	00 LB.	1-499 LBS.	500-999 LBS.	ESTIMATE IN LBS.
OTHER OFF-SITE LOCATION				0

REGION TRI-FACILITY-ID: 53187LLYPR1045P NAME : ALLOY PRODUCTS CORP.
EPA-ID : WID006077978 ADDRESS : 1045 PERKINS AVE.
DOC-CNTL-NUM : 13-89-03581821-0-WI CITY/STATE/ZIP: WAUKESHA, WI 53187

CAS NUMBER : 007439-96-5 SIC CODE: 3551
CHEMICAL NAME: MANGANESE

TYPE OF TRANSFER	00 LB.	1-499 LBS.	500-999 LBS.	ESTIMATE IN LBS.
OTHER OFF-SITE LOCATION				772

REGION TRI-FACILITY-ID: 53187LLYPR1045P NAME : ALLOY PRODUCTS CORP.
EPA-ID : WID006077978 ADDRESS : 1045 PERKINS AVE.
DOC-CNTL-NUM : 13-89-03581822-2-WI CITY/STATE/ZIP: WAUKESHA, WI 53187

CAS NUMBER : 007440-02-0 SIC CODE: 3551
CHEMICAL NAME: NICKEL

TYPE OF TRANSFER	00 LB.	1-499 LBS.	500-999 LBS.	ESTIMATE IN LBS.
OTHER OFF-SITE LOCATION				1,834

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GEOGRAPHIC/CHEMICAL PROFILE REPORT

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TRR01BP UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 08/12/91
PAGE: 1 TOXIC RELEASE INVENTORY SYSTEM 16:04:16
GEOGRAPHIC LOCATION / CHEMICAL PROFILE REPORT

YEAR: 1989 REGION: 03 STATE: VA ZIP CODE: 23231 CITY: RICHMOND

RGN	TRI-FACILITY-ID	FACILITY NAME	ADDRESS	CITY / STATE	ZIP	EPA-ID
03	23231TTMCR4500S	AT&T MICROELECTRONICS RICHMOND WORKS	4500 S. LABURNUM AVE.	RICHMOND VA	23231	VAD066000993

CAS NUMBER : 007664-41-7 SIC-CODE(S): 3672 3661 NA DCN: 13-89-03511056-2-VA
CHEMICAL NAME: AMMONIA

TYPES OF RELEASES (SUMMARY)	00 LB.	1-499 LBS.	500-999 LBS.	ESTIMATE IN LBS.
FUGITIVE AIR EMISSION				0
STACK/POINT AIR EMISSION				17,700
DISCHARGE TO WATER				0
UNDERGROUND INJECTION				0
RELEASE TO LAND				0
** TOTALS FOR RELEASES:				17,700

TYPES OF TRANSFERS (SUMMARY)	00 LB.	1-499 LBS.	500-999 LBS.	ESTIMATE IN LBS.
DISCHARGE TO POTW				59,500
OTHER OFF-SITE LOCATIONS				0
** TOTALS FOR TRANSFERS:				59,500

** TYPES OF ACTIVITY/USES **

MANUFACTURE :	PRODUCE	IMPORT	ON-SITE USE	SALE/DISTR	BYPRODUCT	IMPURITY
PROCESS :	REACTANT	FORMULATION	ARTICLE	REPACKAGING		
OTHERWISE USED:	X PROCESS AID	MANUFTR AID	ANCILLARY			

RGN	TRI-FACILITY-ID	FACILITY NAME	ADDRESS	CITY / STATE	ZIP	EPA-ID
03	23231TTMCR4500S	AT&T MICROELECTRONICS RICHMOND WORKS	4500 S. LABURNUM AVE.	RICHMOND VA	23231	VAD066000993

CAS NUMBER : 007782-50-5 SIC-CODE(S): 3672 3661 NA DCN: 13-89-03511057-4-VA
CHEMICAL NAME: CHLORINE

TYPES OF RELEASES (SUMMARY)	00 LB.	1-499 LBS.	500-999 LBS.	ESTIMATE IN LBS.
FUGITIVE AIR EMISSION				0
STACK/POINT AIR EMISSION				151
DISCHARGE TO WATER				0
UNDERGROUND INJECTION				0
RELEASE TO LAND				0
** TOTALS FOR RELEASES:				151

TYPES OF TRANSFERS (SUMMARY)	00 LB.	1-499 LBS	500-999 LBS.	ESTIMATE I. LBS.
DISCHARGE TO POTW				0
OTHER OFF-SITE LOCATIONS				0
** TOTALS FOR TRANSFERS:				0

** TYPES OF ACTIVITY/USES **

MANUFACTURE :	PRODUCE	IMPORT	ON-SITE USE	SALE/DISTR	BYPRODUCT	IMPURITY
PROCESS :	REACTANT	FORMULATION	ARTICLE	REPACKAGING		
OTHERWISE USED:	X PROCESS AID	MANUFTR AID	ANCILLARY			

TRPC1BP
PAGE: 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
TOXIC RELEASE INVENTORY SYSTEM
GEOGRAPHIC LOCATION / CHEMICAL PROFILE REPORT

08/13/91
09:44:13

YEAR: 1989 REGION: 03 STATE: VA ZIP CODE: 23231 CITY: RICHMOND

****
* *
* SUMMARY TOTALS FOR RELEASES AND TRANSFERS *
* *
****

TOTAL FACILITIES	=	10
TOTAL SUBMISSIONS	=	24
RELEASES TO ENVIRONMENT		
FUGITIVE AIR	=	383,690
STACK AIR	=	318,188
WATER	=	0
UNDERGROUND	=	0
LAND	=	0
TOTAL	=	701,878
TRANSFERS		
TO POTW	=	109,873
TO OFF SITE	=	35,050
TOTAL	=	144,923

APPENDIX C
EPA REGIONS AND STATES

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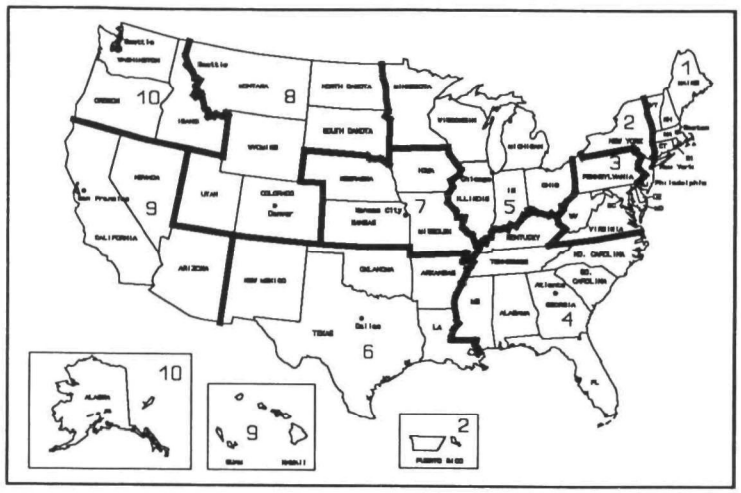

TABLE OF STATES AND EPA REGIONS (STATES)

Listing of EPA Regional Offices by State

Alabama (AL)	4	Louisiana (LA)	6	Oklahoma (OK)	6
Alaska (AK)	10	Maine (ME)	1	Oregon (OR)	10
Arizona (AZ)	9	Maryland (MD)	3	Pennsylvania (PA)	3
Arkansas (AR)	6	Massachusetts (MA)	1	Rhode Island (RI)	1
California (CA)	9	Michigan (MI)	5	South Carolina (SC)	4
Colorado (CO)	8	Minnesota (MN)	5	South Dakota (SD)	8
Connecticut (CT)	1	Mississippi (MS)	4	Tennessee (TN)	4
Delaware (DE)	3	Missouri (MO)	7	Texas (TX)	6
District of Columbia (DC)	3	Montana (MT)	8	Utah (UT)	8
Florida (FL)	4	Nebraska (NE)	7	Vermont (VT)	1
Georgia (GA)	4	Nevada (NV)	9	Virginia (VA)	3
Hawaii (HI)	9	New Hampshire (NH)	1	Washington (WA)	10
Idaho (ID)	10	New Jersey (NJ)	2	West Virginia (WV)	3
Illinois (IL)	5	New Mexico (NM)	6	Wisconsin (WI)	5
Indiana (IN)	5	New York (NY)	1	Wyoming (WY)	8
Iowa (IA)	7	North Carolina (NC)	4	American Samoa (AS)	9
Kansas (KS)	7	North Dakota (ND)	8	Guam (GU)	9
Kentucky (KY)	4	Ohio (OH)	5	Puerto Rico (PR)	2
				Virgin Island (VI)	2

Listing of States by EPA Regional Office

Region 1	Region 2	Region 3	Region 4	Region 5
Connecticut (CT)	New Jersey (NJ)	Delaware (DE)	Alabama (AL)	Illinois (IL)
Maine (ME)	New York (NY)	District of Columbia (DC)	Florida (FL)	Indiana (IN)
Massachusetts (MA)	Puerto Rico (PR)	Maryland (MD)	Georgia (GA)	Michigan (MI)
New Hampshire (NH)	Virgin Islands (VI)	Pennsylvania (PA)	Kentucky (KY)	Minnesota (MN)
Rhode Island (RI)		Virginia (VA)	Mississippi (MS)	Ohio (OH)
Vermont (VT)		West Virginia (WV)	North Carolina (NC)	Wisconsin (WI)
			South Carolina (SC)	
			Tennessee (TN)	

Region 6	Region 7	Region 8	Region 9	Region 10
Arkansas (AR)	Iowa (IA)	Colorado (CO)	Arizona (AZ)	Alaska (AK)
Louisiana (LA)	Kansas (KS)	Montana (MT)	California (CA)	Idaho (ID)
New Mexico (NM)	Missouri (MO)	North Dakota (ND)	Hawaii (HI)	Oregon (OR)
Oklahoma (OK)	Nebraska (NE)	South Dakota (SD)	Nevada (NV)	Washington (WA)
Texas (TX)		Utah (UT)	American Samoa (AS)	
		Wyoming (WY)	Guam (GU)	

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APPENDIX D
FORM R

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Form Approved OMB No 2070-0093
Approval Expires 01/94

(Important Type or print, read instructions before completing form)

EPA U S Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 also known as Title III of the Superfund Amendments and Reauthorization Act

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response with an average of 32 hours per response including time for reviewing instructions searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223) US EPA, 401 M St , SW, Washington, D C 20460 Attn TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093) Washington D C 20503

EPA FORM R	PART I. FACILITY IDENTIFICATION INFORMATION	(This space for your optional use)

1 1 1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1 2, Attach substantiation forms) [ ] No (Do not answer 1 2 Go to question 1 3)

1 2 If "Yes" in 1 1 is this copy [ ] Sanitized [ ] Unsanitized

1 3 Reporting Year 19 ____

2 CERTIFICATION (Read and sign after completing all sections)

I hereby certify that I have reviewed the attached documents and that to the best of my knowledge and belief the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report

Name and official title of owner/operator or senior management official

Signature | Date signed

3 FACILITY IDENTIFICATION

3 1
- Facility or Establishment Name
- Street Address
- City | County
- State | Zip Code
- TRI Facility Identification Number

WHERE TO SEND COMPLETED FORMS:

1 EPCRA REPORTING CENTER
P O BOX 23779
WASHINGTON, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3 2 This report contains information for (Check only one) a [ ] an entire facility b [ ] Part of a facility

3 3 Technical Contact | Telephone Number (include area code)

3 4 Public Contact | Telephone Number (include area code)

3 5 SIC Code (4 digit) a | b | c | d | e | f

3 6	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

3 7 Dun & Bradstreet Number(s) a | b

3 8 EPA Identification Number(s) (RCRA I D No) a | b

3 9 NPDES Permit Number(s) a | b

3 10 Receiving Streams or Water Bodies (enter one name per box) a | b | c | d | e | f

3 11 Underground Injection Well Code (UIC) Identification Number(s) a | b

4 PARENT COMPANY INFORMATION

4 1 Name of Parent Company | 4 2 Parent Company s Dun & Bradstreet Number

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EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1 1 POTW name		1 2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2 OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE)

2 1 Off-site location name		2.2 Off-site location name	
EPA Identification Number (RCRA ID No)		EPA Identification Number (RCRA ID No)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2 3 Off-site location name		2 4 Off-site location name	
EPA Identification Number (RCRA ID No)		EPA Identification Number (RCRA ID No)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2 5 Off-site location name		2 6 Off-site location name	
EPA Identification Number (RCRA ID No)		EPA Identification Number (RCRA ID No)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached How many? _____

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EPA EPA FORM **R**

PART III CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use)

1 CHEMICAL IDENTITY (Do not complete this section if you complete Section 2)

1 1 [Reserved]

1 2 CAS Number (Enter only one number exactly as it appears on the 313 list Enter NA if reporting a chemical category)

1 3 Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list)

1 4 Generic Chemical Name (Complete only if Part I Section 1 1 is checked "Yes " Generic name must be structurally descriptive)

2 MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1)

2 Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e g , numbers letters spaces punctuation))

3 ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply)

3 1 Manufacture the chemical — a [ ] Produce; b [ ] Import; if produce or import: c [ ] For on-site use/processing; d [ ] For sale/ distribution; e [ ] As a byproduct; f [ ] As an impurity

3 2 Process the chemical — a [ ] As a reactant; b [ ] As a formulation component; c [ ] As an article component; d [ ] Repackaging only

3 3 Otherwise use the chemical — a [ ] As a chemical processing aid; b [ ] As a manufacturing aid; c [ ] Ancillary or other use

4 MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[ ][ ] (enter code)

5 RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1 000 pounds by checking ranges under A 1 (Do not use both A 1 and A 2)		A Total Release (pounds/year) A 1 Reporting Ranges 1-10 11-499 500-999	A 2 Enter Estimate	B Basis of Estimate (enter code)	C % From Stormwater
5 1 Fugitive or non-point air emissions	5 1a	[ ] [ ] [ ]		5 1b ☐	
5 2 Stack or point air emissions	5 2a	[ ] [ ] [ ]		5 2b ☐	
5 3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3 10 for stream(s) in the box provided) 5 3 1 ☐ 5 3 2 ☐ 5 3 3 ☐	5 3 1a	[ ] [ ] [ ]		5 3 1b ☐	5 3 1c %
	5 3 2a	[ ] [ ] [ ]		5 3 2b ☐	5 3 2c %
	5 3 3a	[ ] [ ] [ ]		5 3 3b ☐	5 3 3c %
5 4 Underground injection	5 4a	[ ] [ ] [ ]		5 4b ☐	
5 5 Releases to land					
5 5 1 On-site landfill	5 5 1a	[ ] [ ] [ ]		5 5 1b ☐	
5 5 2 Land treatment/application farming	5 5 2a	[ ] [ ] [ ]		5 5 2b ☐	
5 5 3 Surface impoundment	5 5 3a	[ ] [ ] [ ]		5 5 3b ☐	
5 5 4 Other disposal	5 5 4a	[ ] [ ] [ ]		5 5 4b ☐	

[ ] (Check if additional information is provided on Part IV-Supplemental Information)

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EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use)

6 TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1 000 pounds by checking ranges under A 1 (Do not use both A 1 and A 2)	A Total Transfers (pounds/yr) A 1 Reporting Ranges 1-10 / 11-499 / 500-999	A 2 Enter Estimate	B Basis of Estimate (enter code)	C Type of Treatment/ Disposal (enter code)
6 1 1 Discharge to POTW (enter location number from Part II Section 1) 1	[ ] [ ] [ ]		6 1 1b	
6 2 1 Other off-site location (enter location number from Part II Section 2) 2	[ ] [ ] [ ]		6 2 1b	6 2 1c M
6 2 2 Other off-site location (enter location number from Part II Section 2) 2	[ ] [ ] [ ]		6 2 2b	6 2 2c M
6 2 3 Other off-site location (enter location number from Part II Section 2) 2	[ ] [ ] [ ]		6 2 3b	6 2 3c M

[ ] (Check if additional information is provided on Part IV-Supplemental Information)

7 WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check if no on-site treatment is applied to any waste stream containing the chemical or chemical catagory

A General Wastestream (enter code)	B Treatment Method (enter code)	C Range of Influent Concentration (enter code)	D Sequential Treatment? (check if applicable)	E Treatment Efficiency Estimate	F Based on Operating Data? Yes / No
7 1a	7 1b	7 1c	7 1d [ ]	7 1e %	7 1f [ ] [ ]
7 2a	7 2b	7 2c	7 2d [ ]	7 2e %	7 2f [ ] [ ]
7 3a	7 3b	7 3c	7 3d [ ]	7 3e %	7 3f [ ] [ ]
7 4a	7 4b	7 4c	7 4d [ ]	7 4e %	7 4f [ ] [ ]
7 5a	7 5b	7 5c	7 5d [ ]	7 5e %	7 5f [ ] [ ]
7 6a	7 6b	7 6c	7 6d [ ]	7 6e %	7 6f [ ] [ ]
7 7a	7 7b	7 7c	7 7d [ ]	7 7e %	7 7f [ ] [ ]
7 8a	7 8b	7 8c	7 8d [ ]	7 8e %	7 8f [ ] [ ]
7 9a	7 9b	7 9c	7 9d [ ]	7 9e %	7 9f [ ] [ ]
7 10a	7 10b	7 10c	7 10d [ ]	7 10e %	7 10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information)

8 POLLUTION PREVENTION OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility See the instructions for coded items and an explanation of what information to include)

A Type of Modification (enter code)	B Quantity of the Chemical in Wastes Prior to Treatment or Disposal			C Index	D Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))		
M			☐ + ☐ - %	.	R

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PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e g , 5 3 4 6 1 2, 7 11)

(This space for your optional use)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5 3)

You may report releases of less than 1 000 pounds by checking ranges under A 1 (Do not use both A 1 and A 2)	A Total Release (pounds/yr)		B Basis of Estimate (enter code in box provided)	C % From Stormwater
	A 1 Reporting Ranges 1-10 11-499 500-999	A 2 Enter Estimate		
5 3 Discharges to receiving streams or water bodies 5 3 ___ ☐	5 3 ___a [ ] [ ] [ ]		5 3 ___b ☐	5 3 ___c %
(Enter letter code from Part I Section 3 10 for stream(s) in the box provided) 5 3 ___ ☐	5 3 ___a [ ] [ ] [ ]		5 3 ___b ☐	5 3 ___c %
5 3 ___ ☐	5 3 ___a [ ] [ ] [ ]		5 3 ___b ☐	5 3 ___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A 1 (Do not use both A 1 and A 2)	A Total Transfers (pounds/yr)		B Basis of Estimate (enter code in box provided)	C Type of Treatment/ Disposal (enter code in box provided)
	A 1 Reporting Ranges 1-10 11-499 500-999	A 2 Enter Estimate		
6 1 ___ Discharge to POTW (enter location number from Part II Section 1) 1 ☐	[ ] [ ] [ ]		6 1 ___b ☐	
6 2 ___ Other off-site location (enter location number from Part II Section 2) 2 ☐	[ ] [ ] [ ]		6 2 ___b ☐	6 2 ___c M ☐☐
6 2 ___ Other off-site location (enter location number from Part II Section 2) 2 ☐	[ ] [ ] [ ]		6 2 ___b ☐	6 2 ___c M ☐☐
6 2 ___ Other off-site location (enter location number from Part II Section 2) 2 ☐	[ ] [ ] [ ]		6 2 ___b ☐	6 2 ___c M ☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A General Wastestream (enter code in box provided)	B Treatment Method (enter code in box provided)	C Range of Influent Concentration (enter code)	D Sequential Treatment? (check if applicable)	E Treatment Efficiency Estimate	F Based on Operating Data? Yes No
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]
7 ___a ☐	7 ___b ☐☐☐	7 ___c ☐	7 ___d [ ]	7 ___e %	7 ___f [ ] [ ]

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APPENDIX E
MICRO-TO-MAINFRAME LINK

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MICRO-TO-MAINFRAME LINK

FEBRUARY 1990

Prepared by:

US Environmcntal Protection Agency
National Data Processing Division
National Computer Center
Research Triangle Park
North Carolina

Preface

Micro-to-Mainframe Link provides essential information for users of the National Computer Center who transfer files between the mainframe and a Personal Computer Each type of file transfer is discussed including asynchronous, coax, LAN SNA gateway, and Arbiter.

CONTENTS

INTRODUCTION 1

ASYNCHRONOUS FILE TRANSFERS 2

KERMIT PROTOCOL 2

MS-KERMIT 5

MAINFRAME TO PC 5

MS-KERMIT DOWNLOAD PROCEDURES 6

CROSSTALK DOWNLOAD PROCEDURES 7

UPLOADING DATA TO THE MAINFRAME VIA CROSSTALK OR MS-KERMIT 7

KERMIT BINARY FILE TRANSFER. 8

COAX FILE TRANSFERS 10

IRMA CARD AND FORTE CARD 10

UPLOADING USING IRMA OR FORTE 10

CXI CARD 13

UPLOADING USING THE CXI CARD 13

DOWNLOADING USING COAX CARDS 13

LAN SNA GATEWAY FILE TRANSFERS 16

UPLOADING USING THE LAN SNA GATEWAY 16

DOWNLOADING USING THE LAN SNA GATEWAY 19

CONTENTS

ARBITER FILE TRANSFERS 21

TWO METHODS TO USE WITH ARBITER 21

UPLOADING USING ARBITER 22

DOWNLOADING USING ARBITER 25

COMMAND LINE TRANSFERS 30

INDEX Index-1

INTRODUCTION

Although there are many data file transfer needs within the Environmental Protection Agency, this portion of the **Guide to NCC Services** is limited to transfers of text or binary data from MS DOS, IBM-compatible microcomputers to any of the NCC-IBM mainframe computers. It is assumed that you have acquired a User-ID and account on at least one of the NCC-IBM mainframes and are able to log on to TSO.

For more information on registration procedures and for detailed logon instructions, refer to the section of this guide entitled **Getting Started**.

File transfers can occur across any micro-to-mainframe connection **except** the NCC's System Network Architecture (SNA) protocol converter, also referred to as the Terminal/Controller Processor (TCP). The NCC supports transfer accesses in the following categories:

- Asynchronous: dialup, multiplexers, and DEC terminal servers
- Coaxial: IRMA, CXI, and FORTE
- Local Area Network (LAN) SNA gateway connections

Asynchronous connections are established through modems such as HAYES 1200 or 2400 baud modems or through direct wired connections. These direct connections include multiplexer devices, often referred to as muxes, and DEC terminal servers.

ASYNCHRONOUS FILE TRANSFERS

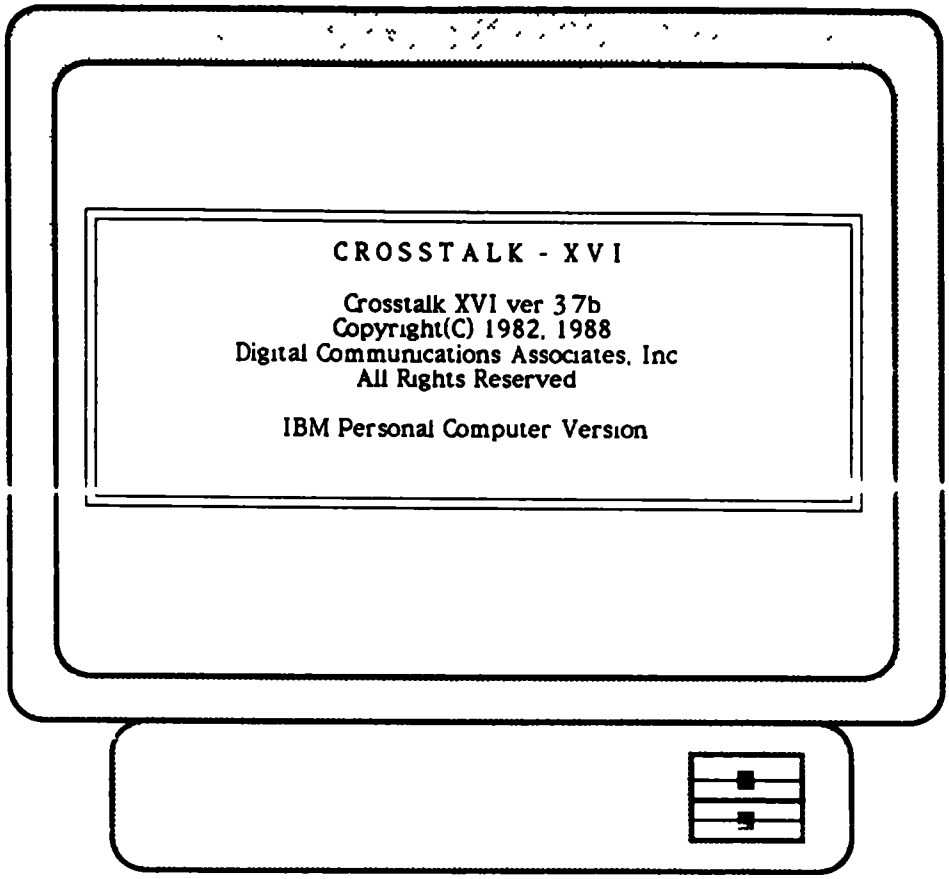
KERMIT PROTOCOL

Kermit is a file transfer protocol which will ensure error free data transfer between two computers across asynchronous communications connections. A Kermit file transfer requires that both computers involved have Kermit software available. The Kermit file transfer protocol was developed several years ago by Columbia University for transferring data to and from mainframes. Columbia placed Kermit in the public domain, and it has been developed for many different computer systems including IBM-compatible PC's and IBM mainframes. The version on the NCC-IBM mainframe is called TSO-Kermit; the version for the IBM PC is called MS-Kermit.

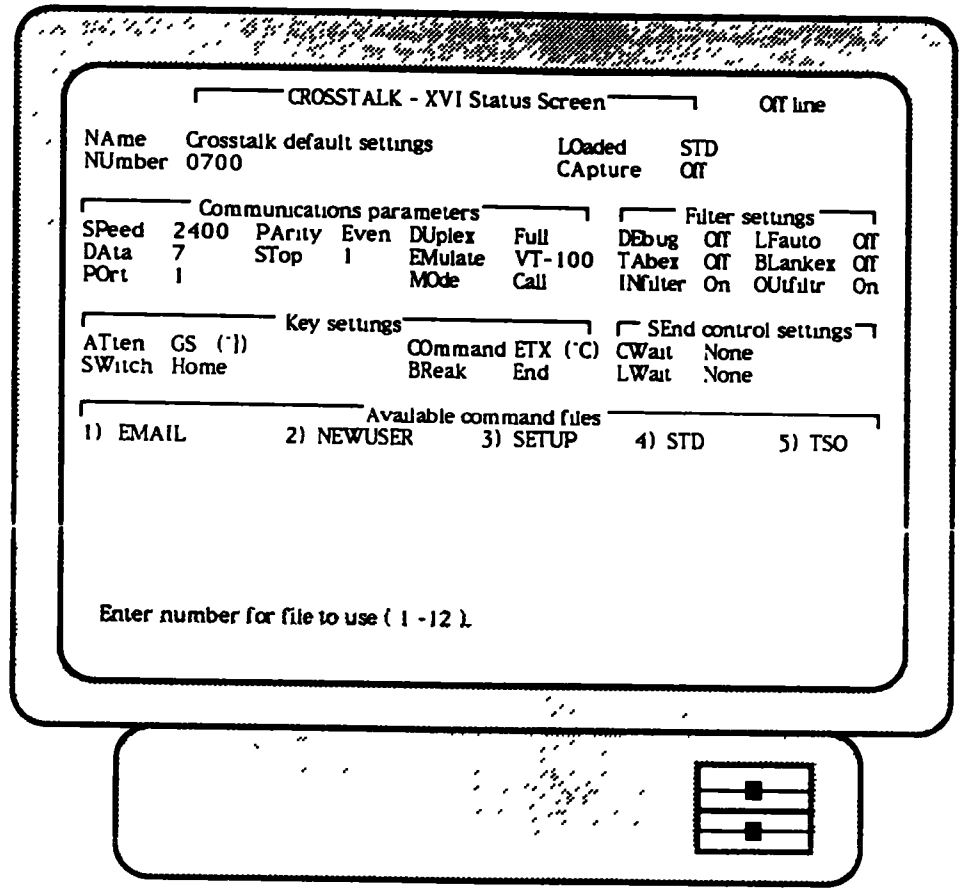
Both Crosstalk and MS-Kermit may be used on the PC to accomplish Kermit text file transfers with other computers across asynchronous connections.

Crosstalk and MS-Kermit both accomplish file transfers, but each has its own set of display menus and screens. Their similarities lie in the fact that both use the Kermit file transfer prototol.

While all versions of MS-Kermit will perform Kermit file transfer, Crosstalk must be version 3.6 or later to perform Kermit file transfers. The opening banner of Crosstalk will display the version as you start the program as shown below:



This screen will disappear after a few seconds, or you can just press ENTER and the following screen will appear:



Command files allow you to automatically access the hardware by storing the phone numbers and other parameters in a macro-like file. For example, this screen has been set up to allow access to TSO on the mainframe simply by entering the number 5.

For more information on setting up your own command files, see the Crosstalk documentation or call User Support.

Note that if you add or delete a command file, numbering will change because Crosstalk arranges the files alphabetically.

MS-KERMIT

For convenience, the MS-Kermit version includes the Kermit transfer protocol along with a terminal emulation program to allow you to log on to the mainframe and transfer data in the same program.

Every mainframe/PC transfer (either direction) must begin with the mainframe because you are using the PC as a way to enter commands.

MAINFRAME TO PC

Transferring data from a mainframe to a PC is commonly referred to as downloading. To begin a Kermit file transfer from the mainframe to your PC, log on to the IBM and get to the TSO READY prompt. Refer to the section of this guide entitled **Getting Started** for logon details. Then enter the following at the TSO READY prompt:

```
READY
KERMIT
```

The following prompt will then appear:

```
Kermit-TSO>
```

Then type SEND followed by the TSO data set name you wish to transfer to your PC. A message should appear instructing you to begin receiving data on your PC An example follows:

```
Kermit-TSO>>SEND data-set-name

Delay in seconds before sending is   20
Escape to your local KERMIT and enter the RECEIVE command
```

At this point procedures differ depending on whether you are using Crosstalk (version 3.6 or later) or MS-Kermit (currently version 2.30).

MS-KERMIT DOWNLOAD PROCEDURES

If you are using MS-Kermit, press CTRL-] followed by C to escape to the command mode on the PC. In newer versions of MS-Kermit, Alt-X will function the same way.

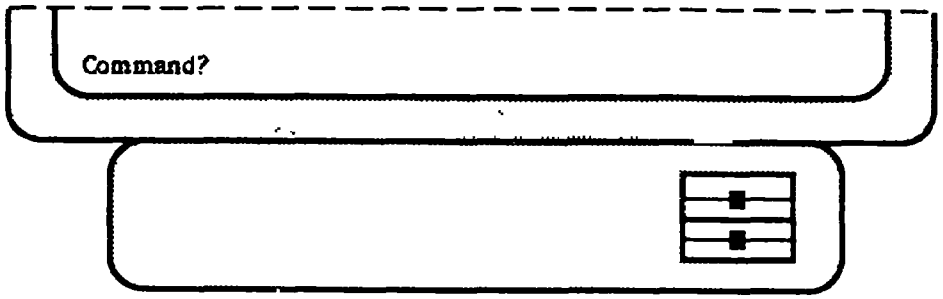
The Kermit-MS> prompt appears on the screen Enter RECEIVE in response to the prompt as shown below:

```
Kermit-MS>RECEIVE
Kermit-MS:   V2.30  8 Jan 1988
          File name   DATA SET NAME
  KBytes transferred  12345
          Receiving   In progress
   Number of packets  0
       Packet length
   Number of retries  1
          Last error  None
        Last warning  None
```

The transfer begins and Kermit continues to display the status of the transfer until it completes.

CROSSTALK DOWNLOAD PROCEDURES

If you are using Crosstalk, press your Attn (attention) key, which is usually defined as ESC, to go to the PC. You will see a Command? prompt on the bottom of your screen as shown below:



Enter KERMIT RECEIVE in response to the prompt. The file transfer begins and continues to display the status of the transfer until it is complete.

Commands can be abbreviated to their shortest unique length. For example, RECEIVE can be shortened to REC.

UPLOADING DATA TO THE MAINFRAME VIA CROSSTALK OR MS-KERMIT

Sending data from your PC to the IBM mainframe is very much like receiving data. First log on to the mainframe and get the TSO READY prompt. Then type KERMIT to get the Kermit-TSO> prompt. Tell the mainframe to begin receiving data by issuing a RECEIVE data set command at the Kermit-TSO> prompt as shown below:

```
Kermit-TSO>REC

Entering receive mode
Escape to your local KERMIT and enter the SEND command
```

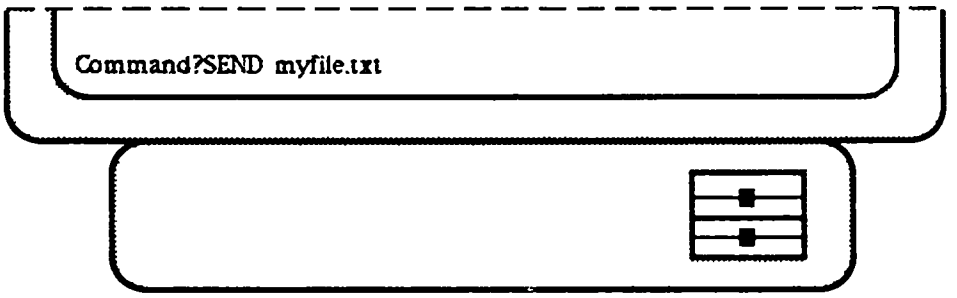
Then escape from the terminal mode of MS-Kermit or Crosstalk, (CTRL-] or Attn key as discussed before) and tell your PC to send the data you wish to transmit. Crosstalk uses the following command at the Command? prompt to send data to the TSO data set:

KERMIT SEND filename

The command to do the same thing in MS-Kermit is as follows:

SEND filename

An example follows:



KERMIT BINARY FILE TRANFER

Kermit binary file transfers are used when the data being transferred is data that must not be changed. Since text is represented differently on mainframes, such as the NCC's IBM 3090, than on PC's, the text must be converted as the data is transmitted. Kermit translates unless you instruct it to leave the data alone. If you disable the translate feature, you will be affecting a binary file transfer.

To transfer binary data you must first tell TSO-Kermit to handle the data as binary by issuing the

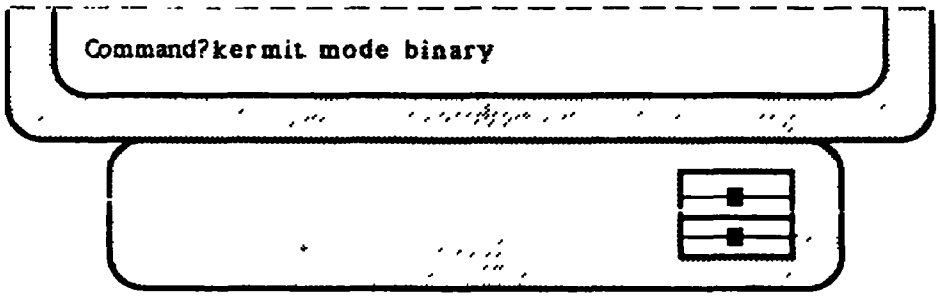
following command at the Kermit-TSO> prompt prior to starting your SEND or RECEIVE of any data:

SET FILE BINARY

To reverse this and start text file transfers the command is SET FILE TEXT.

MS-Kermit requires no special commands to switch to binary mode from text mode. It recognizes the mainframe activities as binary activities and switches accordingly.

However, Crosstalk must be told to switch to binary mode before starting to send or receive data with the following entered at the Command? prompt:



Binary file transfers must not be used when sending text data from a PC to the mainframe to be further edited or printed. The resulting data on the mainframe will be useless except by another PC which could download the data in binary mode and have a duplicate copy of what was transferred to the mainframe.

Binary data file transfers are useful for distributing data such as WordPerfect files, dBASE files, and Lotus files as well as programs for IBM-compatible PC's.

COAX FILE TRANSFERS

Another method which is used within the EPA to connect IBM-compatible PCs to the various IBM mainframes uses coaxial cable (often referred to as coax). This coax is connected to the PC by use of coax adapters or interface cards installed inside the PC.

There are three major coax cards used within EPA and supported by NCC User Support:

- IRMA
- FORTE
- CXI (PCOX)

All three products can perform file transfers provided that you have the right software installed on your PC. As in any file transfer there must be software on each computer capable of communicating with the other across the communications link. The NCC supports one software package called IND$FILE on the IBM mainframes which will communicate with any of the three interface cards mentioned.

IRMA CARD AND FORTE CARD

The IRMA card from Digital Communications Associates (DCA) will transfer files using IND$FILE with software on the PC called FT3270 SEND/RECEIVE.

The product called FTTSO is not supported by the NCC and should not be used.

Like the IRMA card, the FORTE card, also manufactured by DCA, uses the FT3270 SEND/RECEIVE software.

UPLOADING USING IRMA OR FORTE

To send, or upload, a file to the IBM mainframe from your PC using the IRMA or FORTE card, the IRMA or FORTE terminal software must be loaded as

resident in the PC's memory for FT3270 to work. See the IRMA or FORTE manuals for more information on making the terminal software resident.

Access the IBM through the IRMA or FORTE connection (often just by selecting the software from the AUTOMAX menu). Then log on to TSO and get to the READY prompt. See the section of this guide called Getting Started for logon details. At the READY prompt, press the HOTKEY.

The HOTKEY is usually defined as pressing both shift keys simultaneously to escape to the DOS prompt. At the DOS prompt enter the following command:

SEND d:\path\pcfile.typ tso.dsn[(mbr)] [options]

Where the command elements are explained as follows:

d:\path\ represents the DOS path to the file to be sent, such as C:\MAIN\.

pcfile.typ represents the DOS filename of the file to be sent to the mainframe.

tso.dsn is the destination data set name in TSO followed by an optional partitioned data set member name if the target data set is a partitioned data set.

options at the end of the command may include any of the following:

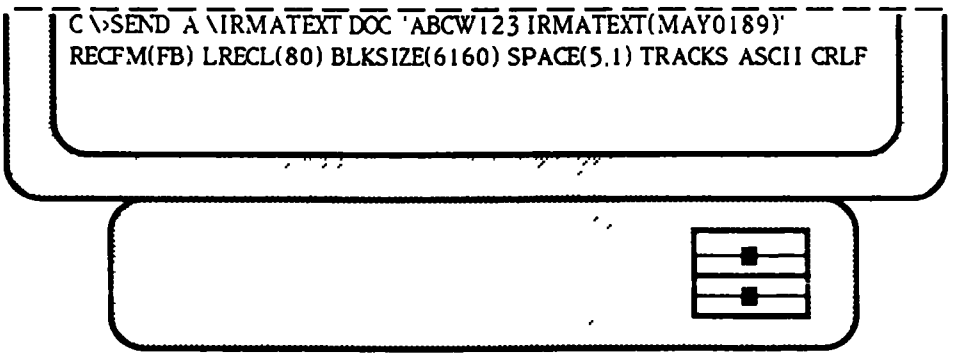
- Data Control Block (DCB) information:
  BLKSIZE (size of logical data blocks)
  LRECL (length of logical data records)
  RECFM (record format such as fixed or variable)
  SPACE (how much space to allow for the data on the mainframe)
  TRACKS or CYLINDERS to refer to the SPACE option

- ASCII (to translate from ASCII to EBCDIC)

- CRLF (to define CRLF as end of logical records)

- APPEND (to add the new data to an existing data set on the mainframe)

For example, to send a small text file called IRMATEXT.DOC from the PC's A: disk drive to a data set in TSO called ABCW123.IRMATEXT with member MAY0189 to be printed from the IBM mainframe, the command would look like the following:



Since the DCB information is default values, the command can be shortened to the following:

SEND A:\IRMATEXT.DOC
'ABCW123.IRMATEXT(MAY0189)' ASCII CRLF

For more information on TSO data set data control block information, refer to Section 3 of the **IBM Ready Reference** or refer to IBM documentation.

After entering the SEND command, a status line appears on the PC's screen and displays the progress of the file transfer. When it is complete, you can HOTKEY back to the TSO session and browse, edit, or print the newly uploaded data set.

CXI CARD

The CXI card from Novell (sometimes called the PCOX card) has its own SEND/RECEIVE software product. However, like FT3270 SEND/RECEIVE the CXI SEND/RECEIVE software will communicate with IND$FILE to transfer files to and from the mainframe.

UPLOADING USING THE CXI CARD

The SEND command syntax for the CXI/PCOX card is the same as the IRMA and FORTE syntax unless you are using the WINDOWED version of the CXI/PCOX product. For the WINDOWED (multi-session) product, a window designator such as A: must be placed in front of the TSO data set name to direct the data to the appropriate session for transfer to a TSO data set.

For more information on WINDOWED CXI/PCOX sessions see the PCOX documentation.

DOWNLOADING USING COAX CARDS

The RECEIVE command is used to move data from a TSO data set to a file on your PC The command syntax is as follows:

RECEIVE d:\path\pcfile.typ tso.dsn [(mbr)] [opt]

Where the command elements are explained as follows:

d:\path represents the DOS path to the file to be created on the PC.

pcfile.typ represents the DOS filename of the file to be received from the mainframe.

tso.dsn is the data set name in TSO from which you wish to receive the data followed by an optional partitioned data set member name if the source data set is a partitioned data set.

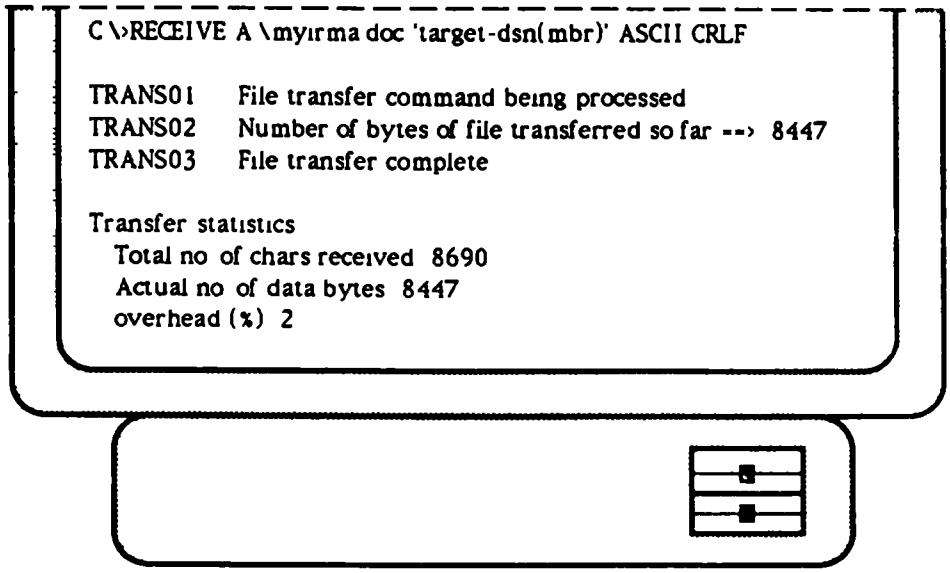
There are fewer options at the end of the RECEIVE command than in the SEND command:

- ASCII (to translate from EBCDIC to ASCII).
- CRLF (to define CRLF as end of logical records)
- APPEND (to add the new data to an existing file on the IBM PC).

For example, to receive a small text file called IRMATEXT.DOC to the A. disk drive on the PC from a data set in TSO called 'ABCW123 IRMATEXT' member MAY0189 to be merged into a WordPerfect document on the PC, the command would look like the following.

RECEIVE A:\IRMATEXT DOC
'ABCW123 IRMATEXT(MAY0189)' ASCII CRLF

After you enter the RECEIVE command, a status line appears on the PC's screen and displays the progress of the file transfer, as shown in the example below:



Transfer messages are different for each type of coax transfer. But each will notify you that the transfer is complete.

When your tranfer from the mainframe is complete, you can edit, merge, or print the new PC file.

LAN SNA GATEWAY FILE TRANSFERS

PC TOKEN RING LAN

PC Token Ring LAN's, installed throughout the Agency, often provide an easily accessible pathway to the IBM mainframe. EPA sites with Novell SNA gateways will have the Novell Workstation software available for 3270 emulation. This software is similar to the CXI/PCOX coax software discussed previously.

Like the CXI/PCOX software, the workstation software must be loaded as resident in memory for the SEND and RECEIVE software to function in the PC. The main difference between the LAN file transfer and the coax file transfer is in the SEND command.

The SEND command for the LAN conflicts with a utility which is available for LAN users to send messages to each other and is called SEND. To resolve this problem NCC has renamed the file transfer send command to the following:

SENDFILE

With the exception of SENDFILE, command syntaxes for sending and receiving are the same as for the CXI/PCOX access method.

The LAN SNA Gateway software from Novell in conjunction with the IBM Token Ring cards will transfer files using IND$FILE with software on the PC called CXI PCOX SEND/RECEIVE.

UPLOADING USING THE LAN SNA GATEWAY

To send, or upload, a file to the IBM mainframe from your PC using the LAN SNA Gateway, the Gateway software must be resident on the PC's memory.

For more information on making the terminal software resident, see the CXI PCOX manual.

Access the IBM through the LAN SNA Gateway connection. Then log on to TSO and get to the READY prompt. See the section of this guide called **Getting Started** for logon details. At the READY prompt, press the HOTKEY (usually defined as Alt-PageUp) to escape to the DOS prompt. At the DOS prompt enter the following command:

SENDFILE d:\path\pcfile.typ w.tso.dsn[(mbr)] [options]

Where the command elements are explained as follows:

d:\path represents the DOS path to the file to be sent, such as C.\MAIN\.

pcfile.typ represents the DOS filename of the file to be sent to the mainframe.

w: refers to the window you wish to transfer the data with, since the gateway software operates in a windowed mode.

tso.dsn is the destination data set name in TSO followed by an optional partitioned data set member name if the target data set is a partitioned data set.

options at the end of the command may include any of the following:

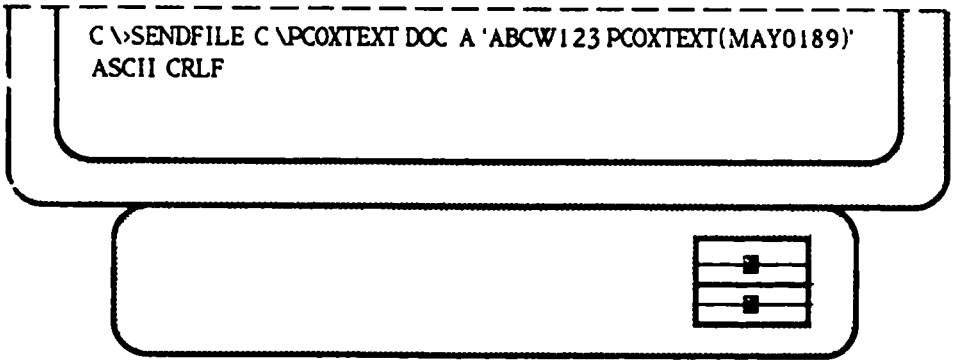
- Data Control Block (DCB) information:
  BLKSIZE (size of logical data blocks)
  LRECL (length of logical data records)
  RECFM (record format such as fixed or variable)
  SPACE (how much space to allow for the data on the mainframe)
  TRACKS or CYLINDERS to refer to the SPACE option

- ASCII (to translate from ASCII to EBCDIC)

- CRLF (to define CRLF as end of logical records)

- APPEND (to add the new data to an existing data set on the mainframe)

For example, to send a small text file called PCOXTEXT.DOC from the PC's C: disk drive to a data set in TSO called 'ABCW123.PCOXTEXT' with member MAY0189 using the A: window to be printed from the IBM mainframe, the command would look like the following:



For more information on TSO data set data control block information, see Section 3 of **IBM Ready Reference** and IBM documentation.

After entering the SENDFILE command, a status line appears on the PC's screen and displays the progress of the file transfer. When it is complete, you can HOTKEY back to the TSO session and browse, edit, or print the newly uploaded data set.

DOWNLOADING USING THE LAN SNA GATEWAY

The SEND and RECEIVE command syntax for the CXI/PCOX LAN SNA Gateway product is the same as the CXI/PCOX coax card syntax

For more information on WINDOWED CXI/PCOX sessions see the PCOX documentation

The RECEIVE command is used to move data from a TSO data set to a file on your PC The command syntax is as follows:

RECEIVE d:\path\pcfile typ w tso dsn[(mbr)] [options]

Where the command elements are explained as follows.

d:\path represents the DOS path to the file to be created on the PC.

w: refers to the window you wish to transfer the data with, since the gateway software operates in a windowed mode.

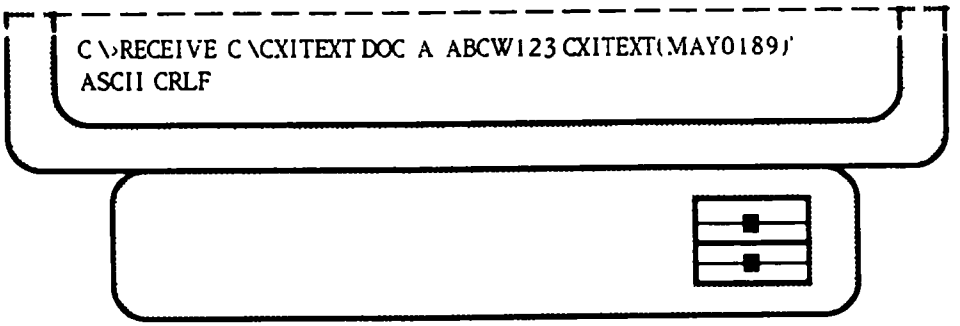
pcfile.typ represents the DOS filename of the file to be received from the mainframe

tso.dsn is the data set name in TSO from which you wish to receive the data from followed by an optional partitioned data set member name if the source data set is a partitioned data set.

options include the following:

- ASCII (to translate from EBCDIC to ASCII)
- CRLF (to define CRLF as end of logical records)
- APPEND (to add the new data to an existing file on the IBMPC)

For example, to receive a small text file called CXITEXT.DOC to the C: disk drive on the PC from a data set in TSO called 'ABCW123.CXITEXT' member MAY0189 through PCOX window A: to be merged into a WordPerfect document on the PC, the command would look like the following:



After entering the RECEIVE command a status line appears on the PC's screen and displays the progress of the file transfer. When it is complete you can edit, merge, or print the new PC file.

ARBITER FILE TRANSFERS

ARBITER FILE TRANSFERS

Arbiter has many features including using the mainframe as disk drive server, 3270 full-screen terminal emulation, data translation, and file transfers. This section will cover the file transfer features of Arbiter

Like MS-Kermit, Crosstalk, and IRMA, Arbiter can transfer data between your PC and the NCC-IBM mainframe. However, unlike all of the other methods available at the NCC, Arbiter is not specific to any one connection type. It can attach IBM-compatible PC's to the IBM mainframe using a variety of connection methods. Arbiter supports almost all of the NCC communications access methods. In addition, all features of Arbiter are available to you regardless of the access method you choose to use

The NCC purchases, installs, and maintains the Arbiter mainframe products The PC software components and documentation are available at no charge through PC Site Coordinators and Information Centers at Washington and RTP Or Arbiter software and documentation kits can be obtained from NCC Production Control for a copy fee of $25.00 per kit. Contact Production Control at one of the telephone numbers listed below and be sure to have a valid IBM timeshare account number available for billing purposes

(FTS) 629-3609
(919) 541-3609

TWO METHODS TO USE WITH ARBITER

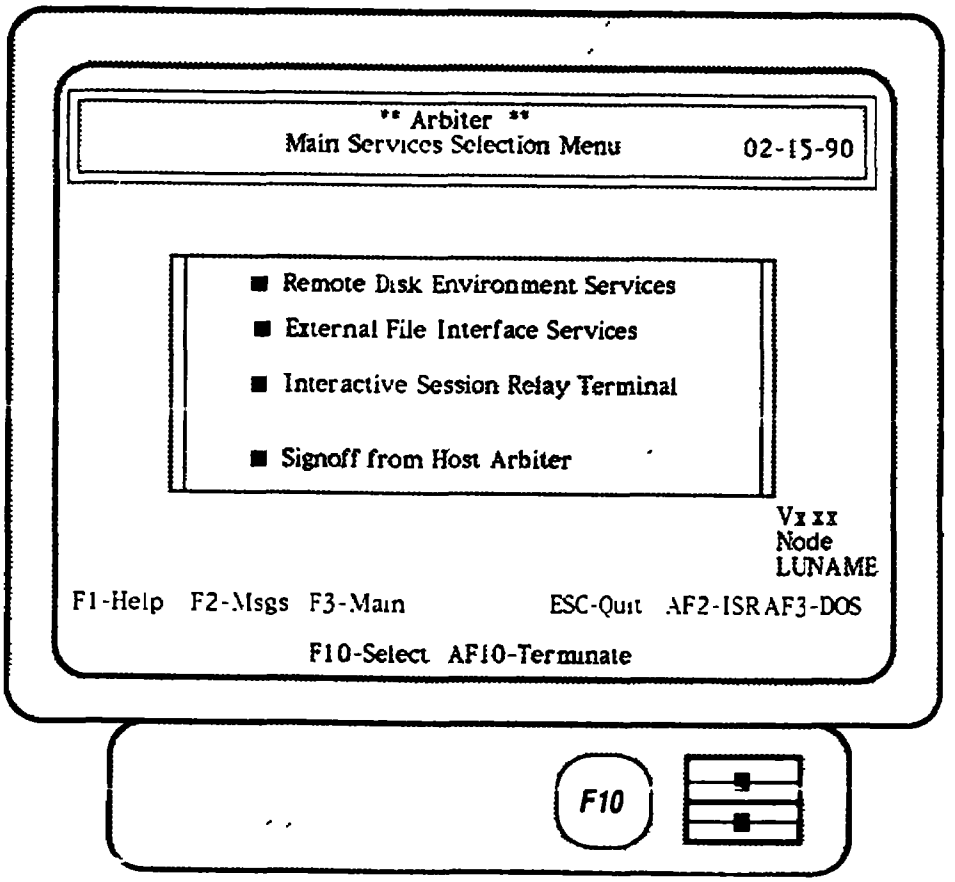
After logging onto Arbiter, there are two ways to transfer a file·

Full-Screen Panels. Full screen panels prompt you through the process All field data is retained from one transfer session to the next to allow for easy editing of repeated transfers

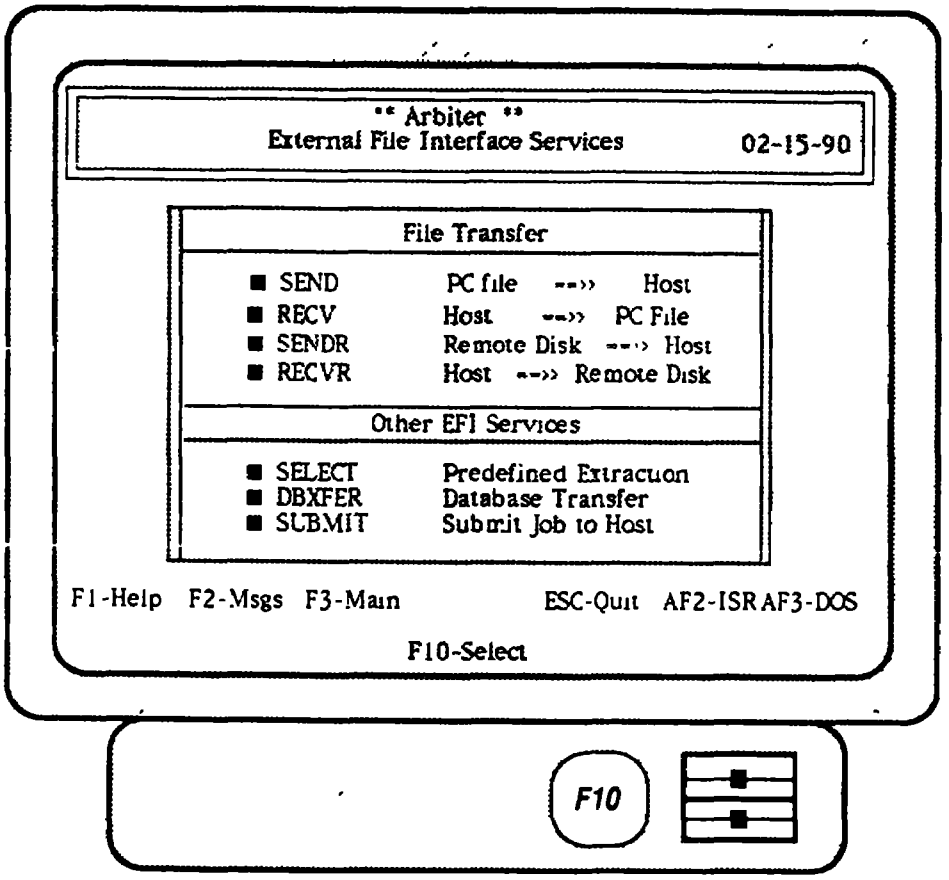
Extended commands. You can issue extended commands on the DOS command line. This is useful when automating file transfers using the DOS batch functions.

UPLOADING USING ARBITER

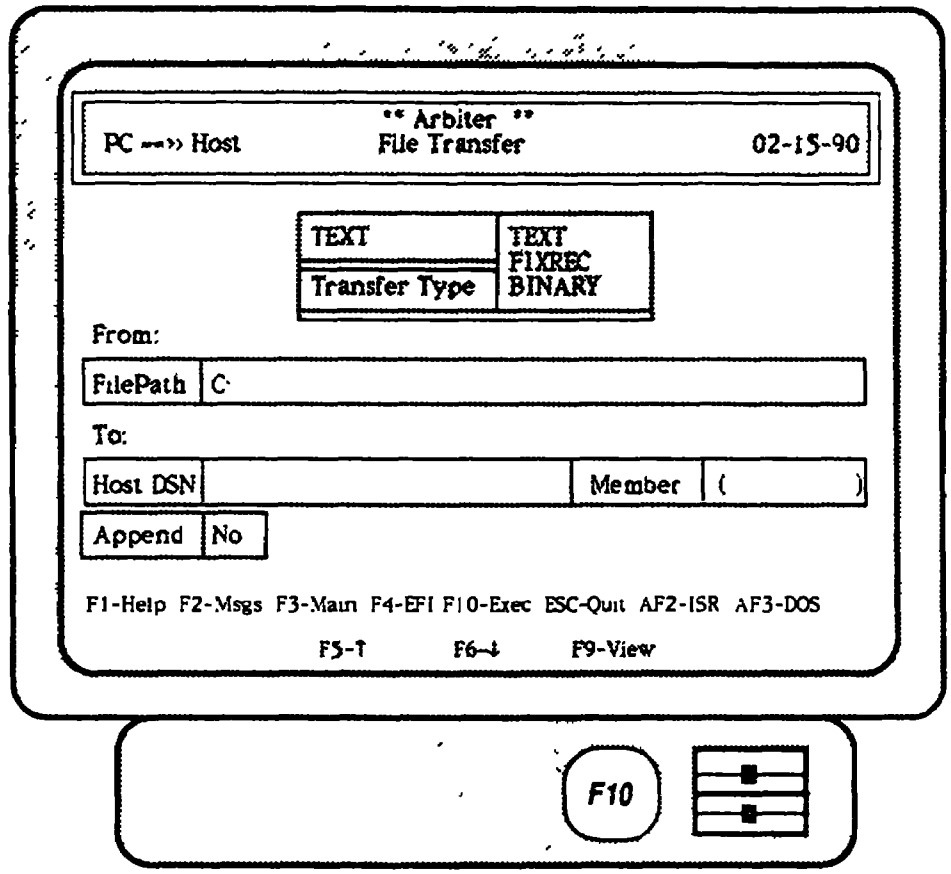
To start a transfer of data from the PC to the mainframe using full-screen prompting, issue the command $ at the DOS prompt. The following screen appears:



Select the EXTERNAL FILE INTERFACE (EFI) option by moving the higlighted bar with your arrow keys and pressing F10. The next screen then appears:



Next, highlight the SEND command and press F10. The following screen appears:



Specify the PC path and file name of the PC file you wish to send, the TSO data set name which will receive the data (including a member name if needed for a partitioned data set), and the file transfer type (TEXT or BINARY).

MORE INFO

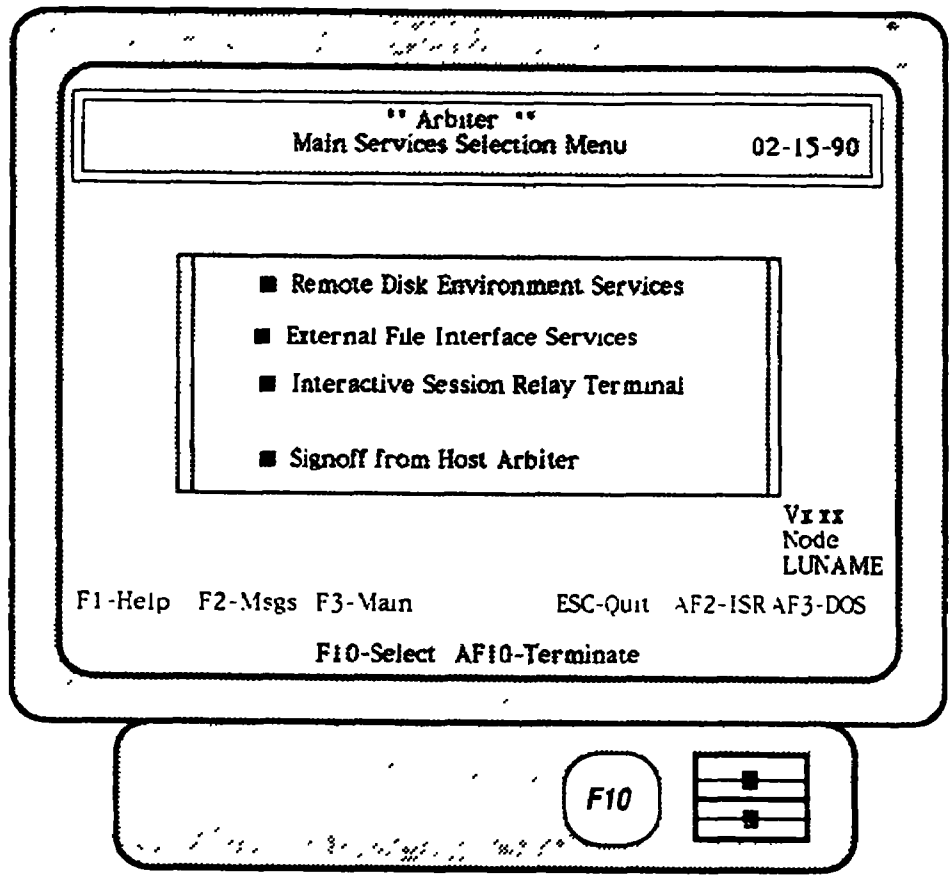
More information on the file transfer type may be found in the Arbiter Users Guide in Chapter 21

The filepath field requires a valid PC file name and optional path that references an existing PC file.

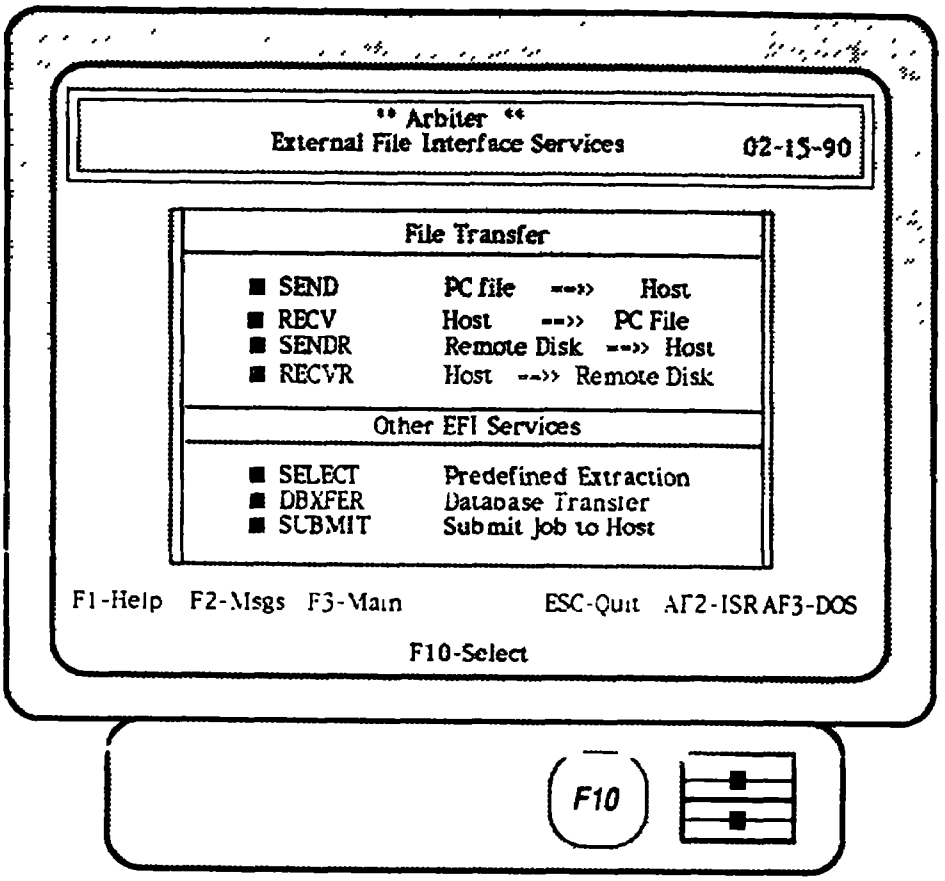
The TSO data set field requires the name of a PRE-ALLOCATED data set on the mainframe because Arbiter is not capable of dynamic allocation of TSO data sets. However, members of partitioned data sets (PDSs) will be dynamically created once the PDS is allocated.

DOWNLOADING USING ARBITER

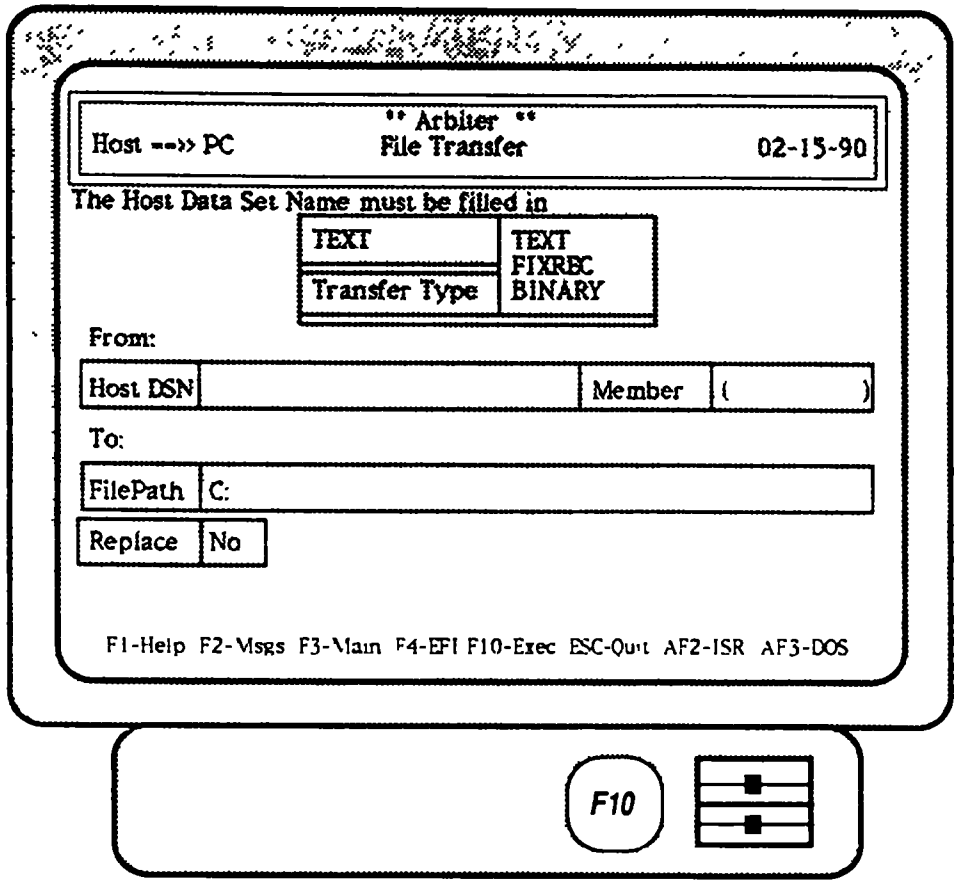
Downloading data is easier than uploading because you need not allocate PC files. The receive process is started like the send process by issuing the $ command at the DOS prompt. You will again see the following screen:



Select the EFI option with the highlighted bar, being sure to press F10 to select the option. The following screen appears:



Next, select RECV using the highlighted bar and F10. The following screen appears:



On the Host ==>> PC panel, specify the host data set name and a member name if the data set is a partitioned data set, a PC file name to receive the host data, and the type of data transfer (TEXT or BINARY)

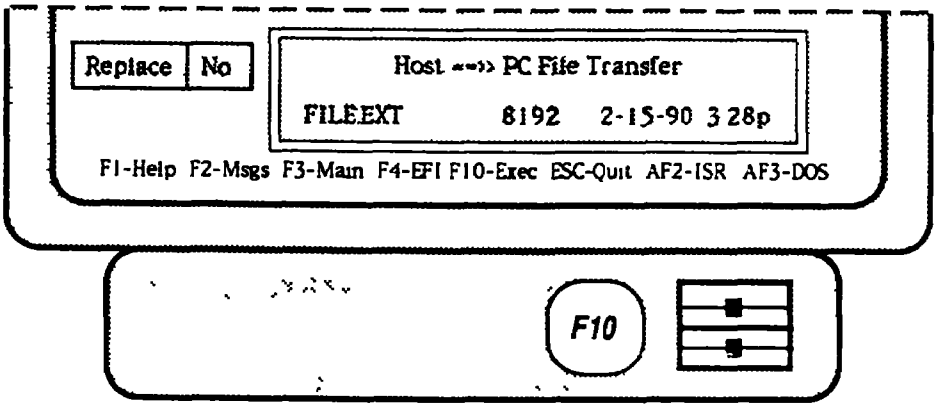
The type of file transfer may be one of the selections you see by pressing the F5 and F6 keys on your keyboard with the cursor placed in the box labeled

'Transfer Type', or you may create a transfer type of your own by pressing the F9 key.

For more information on modifying transfer characteristics, see the Arbiter Users Guide, Chapter 21.

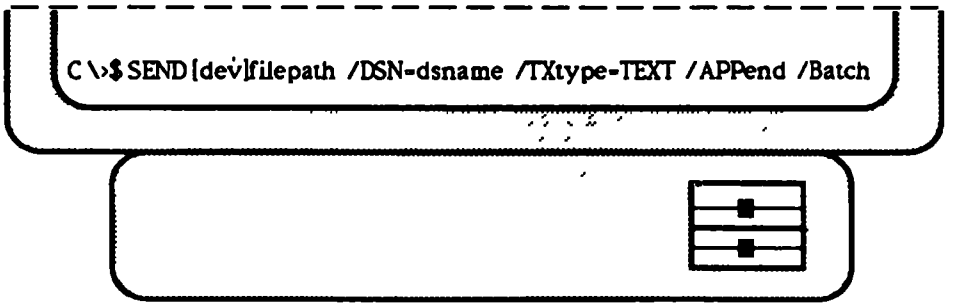
The last field on the the Host ==>> PC screen is the Replace field. The default is NO. If you place YES in this box, you will overwrite the data in the PC file if the PC file already exists; otherwise, the file transfer will abort and tell you that the PC file cannot be overwritten.

When all fields are complete, press F10 to begin the file transfer. The PC will display a small window at the bottom of your screen showing the status of your file transfer. This window displays the name of the file into which data is being written, the date and time of the transfer, and the number of bytes transferred, as shown in the following example:



COMMAND LINE TRANSFERS

You may suppress the full-screen panels of Arbiter if you wish to use PC batch processing to transmit and receive data from the mainframe. All of the options available from the panels may be placed on the command line of the $ command, as shown in the following example:



The $ SEND command is used to transfer data from the PC to the mainframe. Some of the commonly used options are as follows:

dev	Such as C: for a hard drive
filepath	Such as \DOS\ for a DOS subdirectory.
/DSN='dataset'	Defines the TSO data set.
/TXtype=TEXT	Transfer type such as TEXT or BINARY.
/APPend	Appends file to end of mainframe data set.
/Batch	Suppresses the Arbiter panels.

More information on other transfer options may be found in the Arbiter Users Guide in Chapter 21.

INDEX

$	$ command	22
A	Account	1
	Arbiter file transfer	21
	Arbiter PC software	21
	Asynchronous transfer	1
	AUTOMAX menu	11
B	Binary file transfer	1, 8, 9, 24, 28
	Binary file transfer, using Arbiter	24, 28
	Binary file transfer, using Crosstalk	9
	Binary file transfer, using Kermit	8
C	Coax cards	10
	Coax file transfer	10
	Coaxial cable	10
	Coaxial transfer	1
	Columbia University	2
	Command line transfers, using Arbiter	30
	Command mode, on the PC	6
	Command prompt	7
	Command, abbreviating	7
	Command, extended for Arbiter	22
	Commands, KERMIT SEND	8
	Commands, RECEIVE	6, 14, 19
	Commands, RECV	27
	Commands, SEND	6, 8, 11, 16, 23
	Commands, SENDFILE	16
	Crosstalk	2, 3
	CXI (PCOX) card	10
	CXI	1
	CXI card	13
	CXI, WINDOWED version	13
D	Data set, preallocated	25
	DEC terminal server	1
	Dialup connection	1

INDEX

	Digital Communications Associates	10
	Direct wired connection	1
	Documentation, for Arbiter	21
	Downloading, using Arbiter	25
	Downloading, using coax cards	14
	Downloading, using Crosstalk	7
	Downloading, using CXI	14
	Downloading, using FORTE	14
	Downloading, using IRMA	14
	Downloading, using Kermit	5
	Downloading, using MS-Kermit	6
	Downloading, using the LAN SNA gateway	19
E	EFI (Extended File Interface)	23, 26
	Extended command, for Arbiter	22
	External File Interface	23, 26
F	File transfer, introduction	1
	File transfer, Arbiter	21
	File transfer, coax	10
	File transfer, Kermit	2
	File transfer, LAN SNA gateway	16
	FORTE	1
	FORTE card	10
	FT3270 SEND/RECEIVE	10
	FTTSO	10
	Full-screen panels, for Arbiter	21
H	HOTKEY	11, 13, 17
I	IND$FILE	10, 16
	IRMA	1
	IRMA card	10
K	KERMIT RECEIVE	7
	KERMIT SEND command	8
	Kermit protocol	2

INDEX

L	LAN (Local Area Network)	1
	LAN SNA gateway	1
	LAN SNA gateway file transfer	16
	Local Area Network	1
M	Mainframe to PC	5
	Modem	1
	MS-Kermit	2, 5
	Multiplexer connection	1
N	NCC Production Control	21
	Novell workstation	16
P	Preallocated data set	25
	Production Control	21
	Protocol converter	1
	Protocol, file transfer	2
R	RECEIVE command	6, 14, 19
	Receive, using MS-Kermit	6
	Receiving, using Arbiter	25
	Receiving, using coax cards	14
	Receiving, using Crosstalk	7
	Receiving, using CXI	14
	Receiving, using FORTE	14
	Receiving, using IRMA	14
	Receiving, using MS-Kermit	7
	Receiving, using the LAN SNA gateway	19
	RECV command	27
S	SEND command	6, 8, 11, 16, 23, 30
	SEND command, LAN SNA gateway	16
	SENDFILE command	16, 17
	Sending, using Arbiter	22
	Sending, using Crosstalk	7
	Sending, using CXI	13
	Sending, using FORTE	10

INDEX

	Sending, using IRMA	10
	Sending, using LAN SNA gateway	16
	Sending, using MS-Kermit	5
	Shift keys (HOTKEY)	11
	SNA (System Network Architecture)	1
	SNA gateway	1
	System Network Architecture (SNA)	1
T	Telephone numbers, Production Control	21
	Terminal/Controller Processor (TCP)	1
	Text file transfer	1, 24, 28
	Text file transfer, command to set	9
	Text transfer, compared to binary	8
	Time Sharing Option	1
	Token Ring card	16
	Token Ring LAN	16
	Translation, of text	8
	TSO (Time Sharing Option)	1
	TSO-Kermit	2
U	Uploading, using Arbiter	22
	Uploading, using Crosstalk	7
	Uploading, using CXI	13
	Uploading, using FORTE	10
	Uploading, using IRMA	10
	Uploading, using LAN SNA gateway	16
	Uploading, using MS-Kermit	7
	User-ID	1
W	Workstation software	16

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APPENDIX F
KEYBOARD MAPPINGS

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KEYBOARD REVIEW

Program Function (PF) Keys

TRIS makes extensive use of program function (PF) keys to navigate from menu to menu. Within TRIS the first three PF keys always produce the same result:

PF1 = HELP Online help
PF2 = MAIN Return to opening TRIS menu
PF3 = PREV Back up to previous menu

Unfortunately, the exact location, assignment, and number of PF keys vary greatly from keyboard to keyboard. Documentation delivered with your terminal, emulation board, or communications software will detail precisely how PF and other keys are mapped and sent to the mainframe. Some common translations for PF keys are shown on the following pages. If different mappings exist at your location, use the page provided at the end of this section to record them.

MAINFRAME TERMINAL

Keyboard Configuration

<ENTER>	Enter data and take the next logical action
<RETURN>	Moves the cursor to the input field below the current one
<TAB>	Moves the cursor to the next input field
<INSERT>	Stays on until <ENTER> or <RESET> is pressed
<DELETE>	Deletes one character
<HOME>	Moves the cursor to the first input field
<RESET>	Resets the terminal when a lock condition occurs
PF1 / PF13	PF1 equivalent
thru	
PF12 / 24	PF12 equivalent

IRMA

Keyboard Configuration

The key sequences in brackets are for an enhanced PC keyboard operating in terminal emulation mode using the IRMA terminal emulation software. TRIS functions described on the bottom line of the mainframe screen (the PF keys) are accessible by pressing **<ALT>** and the **number** simultaneously. For example, PF1 calls a help screen in TRIS. When using IRMA, press **<ALT>** and **1** simultaneously.

<ENTER>	Enter data and take the next logical action
<TAB>	Moves the cursor to the next input field
<DELETE>	Deletes one character
<HOME>	Moves the cursor to the first input field
<INSERT>	Stays on until <ENTER> or <F10> is pressed
<F10>	Reset locked terminal or turn off insert mode
<ALT> + 1 thru **<ALT> + 9**	PF1 equivalent thru PF9 equivalent
<ALT> + 0	PF10 equivalent
<ALT> + <->	PF11 equivalent
<ALT> + <=>	PF12 equivalent
<LEFT SHIFT> + **<RIGHT SHIFT>**	Return to PC (DOS)

CROSSTALK

Keyboard Configuration

The key sequences shown in brackets are for an enhanced PC keyboard operating in terminal emulation mode using the CROSSTALK terminal emulation software.

<ENTER>	Enter data and take the next logical action
<TAB>	Moves the cursor to the next input field
<CTRL> + R	Resets the terminal when a lock condition occurs
<ESC> + 1 + <ENTER>	PF1 equivalent
thru	
<ESC> + 9 + <ENTER>	PF9 equivalent
<ESC> + 1 + 0 + <ENTER>	PF10 equivalent
<ESC> + 1 + 1 + <ENTER>	PF11 equivalent
<ESC> + 1 + 2 + <ENTER>	PF12 equivalent

PROCOMM PLUS

Keyboard Configuration

The key sequences shown in brackets are for an enhanced PC keyboard operating in terminal emulation mode using the PROCOMM PLUS terminal emulation software.

<ENTER>	Enter data and take the next logical action
<TAB>	Moves the cursor to the next input field
<DELETE>	Deletes one character
<HOME>	Moves the cursor to the first input field
<CTRL> + R	Resets the terminal
<ESC> + 1 + <ENTER> thru **<ESC> + 9 + <ENTER>**	PF1 equivalent PF9 equivalent
<ESC> + 1 + 0 + <ENTER>	PF10 equivalent
<ESC> + 1 + 1 + <ENTER>	PF11 equivalent
<ESC> + 1 + 2 + <ENTER>	PF12 equivalent

Keyboad mapping for:

KEY	FUNCTION

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APPENDIX G
REGIONAL ACCOUNT MANAGERS

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Account Name	Region/Location	Account Manager
TNEI	NEIC/Denver, CO	Carolyn Thornton EPA/OTS/IMD/PDB 401 M Street, SW Washington, DC 20460 (FTS) 260-8620 (202) 260-9419
TOSW	Office of Solid Waste	Carolyn Thornton EPA/OTS/IMD/PDB 401 M Street, SW Washington, DC 20460 (FTS) 260-8620 (202) 260-8620
TRID	SYCOM/Developers	Carolyn Thornton EPA/OTS/IMD/PDB 401 M Street, SW Washington, DC 20460 (FTS) 260-8620 (202) 260-8620
TRIS	Headquarters	Carolyn Thornton EPA/OTS/IMD/PDB 401 M Street, SW Washington, DC 20460 (FTS) 260-8620 (202) 260-8620

TOAQ	Office of Air Quality Planning & Standards	Charles Isbell EPA/NADB/MDAD-OA&R Mutual Building RTP, NC 27711 (FTS) 629-5448 (919) 541-5448
TRIP	EPCRA Center	Doug Sellers OTS/IMD/PDB 401 M Street, SW Washington, DC 20460 (FTS) 260-3587 (202) 260-3587
TRI1	Region 1	Michael McDougall EPA/Region 1 JFK Federal Bldg. Boston, MA 02203 (FTS) 835-3377 (617) 565-3377
TRI2	Region 2	Robert Messina EPA/Region 2 26 Federal Plaza New York, NY 10278 (FTS) 264-9850 (212) 264-9850
TRI3	Region 3	Kim Woodall EPA/Region 3 841 Chestnut Blg. Philadelphia, PA 19107 (FTS) 597-9358 (215) 597-9358

TRI4	Region 4	Jesse Dooley EPA/Region 4 345 Courtland St. NE Atlanta, GA 30365 (FTS) 257-2316 (404) 347-2316
TRI5	Region 5	Sandra Darden EPA/Region 5 230 S. Dearborn Street Chicago, IL 60604 (FTS) 353-1770 (312) 353-1770
TRI6	Region 6	David White EPA/Region 6 1445 Ross Avenue Dallas, TX 75202 (FTS) 255-6540 (214) 655-6540
TRI7	Region 7	Dale Parke EPA/Region 7 726 Minnesota Avenue Kansas City, KS 66101 (FTS) 757-2827 (913) 551-2827
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