Bellcore
Bell Communications Research

BELLCORE PRACTICE
BR 759–200–001
ISSUE 7, MAY 1998
RELEASE 7.2

TDIS
TIRKS® Detailed Regulatory Process Interface System

TDIS Circuit Equipment Study (TDIS-CES) User Guide

Bellcore
Bell Communications Research

BELLCORE
DOCUMENTATION PRODUCTION AND CONTROL
NOTICE OF DOCUMENTATION UPDATE

Project Name _____

Type of Update

( ) Initial Release of New Document

( ) Maintenance Release to Existing Document

Documentation Title TDIS-CES User Guide

Documentation Identification BR 759–200–001

Issue/Revision, Date Issue 7, May 1998

First/Current Compatible System Release/Version Release 7.2

Date Required at Destination _____

Reason For Update/Comments; Associated MRs:

Supervisor Initials/Date	Originator Initials/Date

Project Approval	Date

Bellcore
Bell Communications Research

BELLCORE PRACTICE
BR 759–200–001
ISSUE 7, MAY 1998
RELEASE 7.2

TDIS
TIRKS® Detailed Regulatory Process Interface System

TDIS Circuit Equipment Study (TDIS-CES) User Guide

Prepared for Bellcore by:

TDIS Development Team

For further information, please contact:

TDIS Hot Line (732) 699-8506

To obtain copies of this document, Regional Company/BCC personnel should contact their company's document coordinator; Bellcore personnel should call (732) 699-5802.

Project funding year: 1998.

Trademark Acknowledgements

LEIS is a trademark of Bellcore

CLASS is a service mark of Bellcore

TIRKS is a registered trademark of Bellcore

COMMON LANGUAGE is a registered trademark and CLEI, CLLI, CLCI and CLFI are trademarks of Bellcore

TDIS-CES User Guide

Contents

List of Figures

List of Tables

1. Introduction

This section explains how to use this user guide. It also introduces basic information about the TIRKS® System/Detailed Regulatory Process Interface System Circuit Equipment Study (TDIS-CES).

TDIS-CES is an interactive report system that allows you to conduct monthly circuit equipment studies. TDIS-CES receives usage data from TDIS and investment data from DRMA. TDIS-CES breaks down circuit equipment investment into separations categories. The Detailed Regulatory Monthly Allocation (DRMA) investment data and the TDIS usage data are correlated and adjusted. The investment data is broken down, based on the distribution of the corresponding usage, to separations categories.

1.1 Purpose of this Guide

This guide is intended to show you the procedures necessary to prepare a circuit equipment study. The following procedures are covered in this guide:

- Loading investment and usage data
- Defining user tables for TDIS-CES processing
- Verifying and adjusting usage and investment data
- Executing the study.

1.1.1 Audience

This guide is intended for personnel responsible for separations studies or circuit equipment separations studies.

1.1.2 Organization and Content

The organization of this document is based on the sequence in which you will most likely use TDIS-CES. It is divided into ten major sections.

Table 1-1 provides details about each section.

TIRKS is a registered trademark of Bellcore.

Table 1-1. Sections in the Guide

Section	Title	Contents
1	Introduction	Contains an introduction to TDIS-CES and the organization and content of this guide.
2	Getting Started	Describes TDIS-CES access and exit procedures, the Main Menu, screen structure, selection procedures, input procedure, and common field definitions.
3	Loading Data	Describes how to load TDIS and DRMA data. Explains how to use the screens that allow you to do this.
4	Investment and Usage Verification	Describes how to display and print DRMA investments, and the usage and investment matches and mismatches. Explains how to use the screens that provide this data.
5	Analysis and Adjustments	Describes how to display, print, add, change, and delete investment and usage data.
6	Circuit Equipment Study	Describes how to launch a study, how to obtain paper output, and how to verify the study results.
7	Browsing Reports	Describes how to browse TDIS-CES reports.
8	User Tables	Describes how to define the tables that affect how TDIS-CES processes the study data. Explains the function of each table.
9	Releasing Locks	Describes how to unlock the usage or investment tables.
10	Status Displays	Describes how to obtains the status of TDIS-CES data.
11	Debugging Tool	Describes how to execute the CES Debugging Tool.

1.1.3 How to Use this Guide

Read Section 2 to get a feel for TDIS-CES and how to use its menus, screens, and commands. Use Section 3 when you are ready to load the data. Use Sections 4 and 5 to prepare TDIS-CES data for the study. Use Section 6 when you want to execute a study. Use Section 7 when you want to browse a report. Use Section 8 when you need to create or adjust the user tables. Use Section 9 when you need to release a system lock. Use Section 10 when you want find out the status of TDIS-CES data.

2. Getting Started

This section introduces basic information about the TIRKS® System/Detailed Regulatory Process Interface System Circuit Equipment Study (TDIS-CES).

2.1 Access Procedures

Procedures to display the TDIS-CES Access Panel (Figure 2-2) are company-specific, and not included in this user guide. See BR-759-200-002, TDIS-CES System Administrator's Guide, for more information.

However, prior to the display of the TDIS-CES Access Panel, a TDIS-CES System Information Panel (Figure 2-1) will be displayed. This panel is for informational purposes only. It is used to relay system changes to the user and may be "turned off" by a user on a user-to-user basis. If the information on changes from release-to-release, this panel will automatically reappear and the user will have the opportunity to "turn it off" again. If the user wishes to "turn it back on", the user needs to enter "TSO %YDCINFOX" on the "COMMAND" line.

```
                TDIS-CES: SYSTEM INFORMATION PANEL
------------------------------------------------------------

This is an informational screen to relay system information.

The TDIS-CES System was modified to execute under an LE
environment.  Depending on your company's installation of
the LE Software, the file used for error diagnostic
information may vary.

If SYSOUT   is used, you will generate an error log file
which may be printed upon exiting the TDIS-CES System.

If SYSPRINT is used, the error diagnostic information will
appear on your screen, requiring a screen image print.

           To prevent this screen from appearing
           in the future, enter an X  here ===>
```

Figure 2-1. TDIS-CES System Information Panel

TIRKS is a registered trademark of Bellcore.

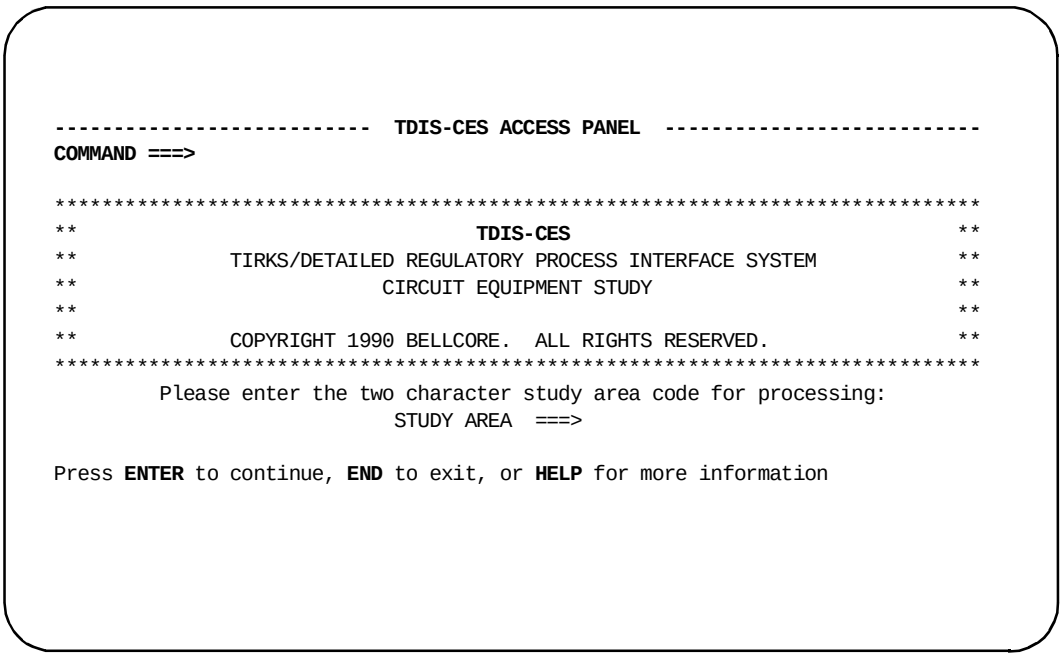


Figure 2-2. TDIS-CES Access Panel

To access the main menu once you have obtained the TDIS-CES access panel:

1. Enter a study area code at the STUDY AREA prompt.
2. Press the ENTER key.

The TDIS-CES Main Menu is displayed. Select a code that corresponds to the option you want to access. You can use capital or small letters.

2.2 Exit Procedures

The procedures to exit TDIS-CES vary, depending on where you are in the system when you want to log off TDIS-CES. The commands referenced in this section are described in the ISPF/Program Development Facility Program Reference, IBM® Manual SC34-2139-0.

To exit TDIS-CES from any screen, follow the procedures below:

1. Enter **=x** in the Command field.
2. Press the ENTER key.

IBM is a registered trademark of International Business Machines, Inc.

If you have access to more than one study area, you may enter another study area on the access panel and re-enter the system.

2.3 TDIS-CES Menus and Screens

TDIS-CES provides three types of screens: menu screens, display-only screens, and transaction screens. Menu screens list options that allow you to access other parts of the TDIS-CES system. Display-only screens display data contained in the database, or trace a program's execution. Transaction screens display information contained in the database and allow you to select an action to manipulate the information. This section describes how to use TDIS-CES menus and screens, and includes the following topics:

- Main Menu
- Screen Structure
- Selection Procedure
- Action Fields
- Using Fields With asterisks
- Logical Operators
- Data Entry
- Keyboard Keys Used In TDIS-CES
- Error Screen

2.4 TDIS-CES Main Menu

The TDIS-CES Main Menu lists the available TDIS-CES functions. Use this menu to access the screens that allow you to work in the chosen topic.

When you have successfully accessed TDIS-CES for the chosen study area, the TDIS-CES Main Menu appears, as shown, in Figure 2-3. The cursor is located in the Option field.

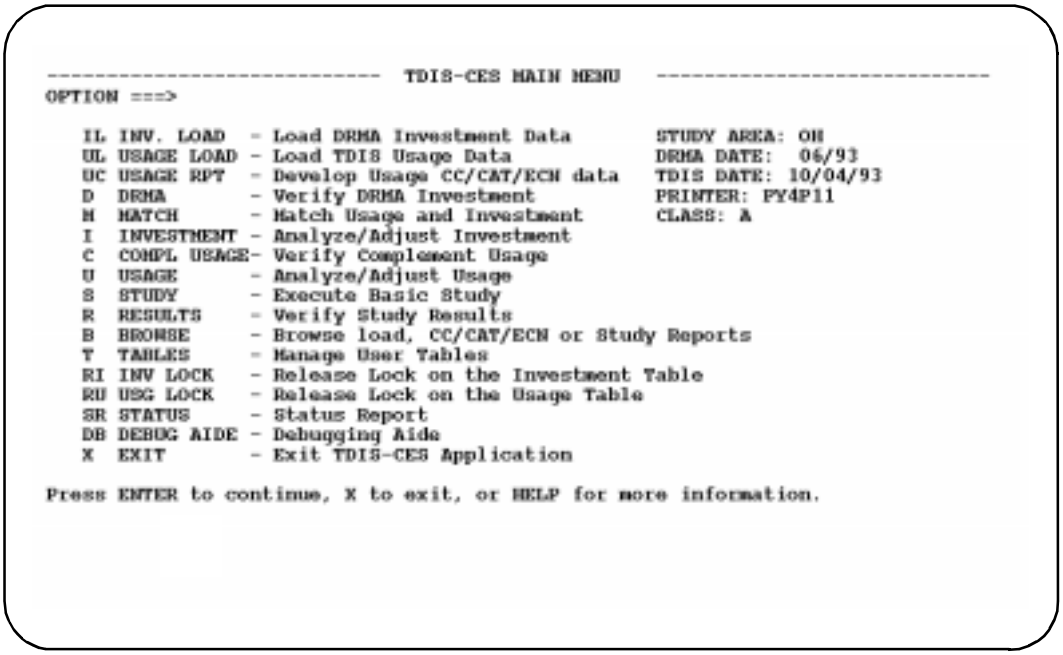


Figure 2-3. TDIS-CES Main Menu

The five fields on the right side of the screen identify the study area you specified on the access panel, the date of the DRMA and TDIS data you are using, the printer destination, and a valid SYSOUT class code. You *must* specify a valid printer destination before proceeding. You can change the printer destination on any screen containing the Printer Destination field. The destination is shared between screens. TDIS-CES retains the last value you entered from session to session. The SYSOUT class code designates the printout class.

2.5 Selecting a Menu Option

To select a menu option, type the value for the option you want to access (for example, **d** for Verify DRMA Investments) in the Option field. You can use capital or small letters. Press the ENTER key after you have entered your selection.

2.6 Screen Structure

TDIS-CES screens contain fields or prompts. Figure 2-4 shows a sample TDIS-CES screen. You may enter information into any field preceded by an arrow.

```
---------------  T/DIS-CES ANALYZE POST-STUDY BASE INVESTMENT  ROW 1 FROM 446
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot =>     (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => A (B-Before/A-After Study)
LOC => *          ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION   ECN  TD     TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------   ---  --     ------------    -----------   -----------   -----------
ALXNKYAA   808              19,435         19,435             0             0
ALXNKYAA   809              29,742              0        29,742             0
ALXNKYAA   810                   0      1,138,783             0             0
ALXNKYAA   817                   0         29,742       -29,742             0
ALXNKYAL   808             190,297        185,335         4,962             0
ALXNKYAL   809             414,945        328,317        86,628             0
ALXNKYAL   810                   0        549,246       108,584             0
ALXNKYAL   817                   0         35,210       -35,210             0
ALXNKYAL   820                   0         14,094       -14,094             0
ALXNKYAL   838              85,101         85,101             0             0
ALXNKYAL   839                   0         33,038       -33,038             0
ALXNKYAL   841               8,430          8,430             0             0
ALXNKYAL   843              10,968         10,968             0             0
ALXNKYAL   844                   0          4,757        -4,757             0
ALXNKYAL   845                   0          4,286        -4,286             0
ALXNKYAL   846                   0          7,088        -7,088             0
```

Figure 2-4. TDIS-CES Sample Screen

A line by line description of the sample screen is provided in Table 2-1. Lines one through four function identically on every screen. Lines five through seven do not appear on every screen, but function consistently on the screens containing them.

> **NOTE —** The line by line sample screen description is specific to the screen shown in Figure 2-4. Some screens may vary from this line by line description. However, the order of enterable fields, column headings, and data requested is consistent.

Table 2-1. TDIS-CES Sample Screen

Line	Description
1	Contains a centered screen title. Short messages are displayed to the right side of the title. On table-display screens, this field indicates your position within the table.
2	Contains action fields that appear on all TDIS-CES display screens.
3	Contains a blank line. This line displays a long help message when you use the HELP command after a short message is displayed.
4	Contains screen-specific Action fields.
5-6 (Enterable fields)	Some of these fields contain asterisks. You can use these fields to limit the data displayed. Key fields, which are unique identifiers of records, are highlighted. Entries in key fields are required for TDIS-CES to process an add, change, or delete action. Also on a table or an adjust screen, you can use these fields to specify the data you want to add, change, or delete. For a deletion, entries in the key fields only are required.
7 (Column headings)	Displays underscored column headings that identify the data displayed beneath them.
8 - to the bottom (Data requested)	Displays the data you requested.

2.7 Common Action Fields

The following fields appear on line two on all display-only and transaction screens. Table 2-2 describes a sample of the selections common to these fields. Their meaning is consistent throughout the system. For more information about these fields, see the Interactive System Productivity Facility (ISPF) tutorial.

Table 2-2. Common Action Field Definitions

Field	Definition
Command	An entry in this field causes TDIS-CES to perform an action. The commands you can enter in the Command field are listed in the ISPF/ Program Development Facility Program Reference, IBM Manual SC34-2139-0. You can program these commands in your keyboard's function keys following your company's convention. Some of the useful commands include: end, right, left, up, down, split, swap, help. Right and left are scroll commands. Use these commands on screens with displays that span more than the screen's width. These commands are modular. For example, activating the Right command twice results in the same action as activating the left command.
Scroll	The Scroll command scrolls the contents of the screen. Examples of allowable entries in this field are: **PAGE** - scrolls the contents one page at a time **CSR** - depends on where the CurSoR is when you execute scroll. If it is positioned in the data, executing scroll causes the line on which the cursor is positioned to become the first or last line of data on the screen. The position is based on the function key for down or up respectively. If you execute scroll with the cursor outside the data, CSR scrolls one page at a time. **NUMBER** - Moves the display the number of rows you specify. You can specify any number from 1 to 9999. Each option listed on the TDIS-CES Main Menu has its own scroll variable that is saved between TDIS-CES functions.

2.8 Screen-Specific Action Field

Line four contains fields that allow you to direct TDIS-CES to take a specific action. The Action field that appears on every screen is where you tell TDIS-CES what you want to do with the data on the screen. The values you choose when making your selections are in capital letters. To use this field, follow the steps below:

1. Type the code corresponding to your selection (for example, **v** for view). You can use capital or small letters.
2. Press the ENTER key.

If you enter an invalid selection, TDIS-CES displays the following message:

```
INVALID SELECTION
```

The right half of line four sometimes contains a field that varies for each screen. Instructions for using these fields are contained in the section discussing each screen.

The selections common to the Action field are described in Table 2-3. Their meaning is consistent throughout the system.

Table 2-3. Screen-Specific Action Field Definitions

Field	Definitions
View	Displays the data on your screen. Selecting View without specifying values in any of the fields containing asterisks causes TDIS-CES to display all the data associated with the table. Specifying values in fields accepting entries causes TDIS-CES to display only data that matches your entries. Examples of both views are shown in Figures 2-5 and 2-6.
Print	Provides a printout of the data you specify to the printer specified in the Printer Destination field. Print also displays the data on your screen.
Locate	Finds the data you specify. Fields accepting entries when using Locate are populated with asterisks. The search begins at the row following the one currently displayed at the top of the screen and continues downward in the table. If a row matching the search criteria is found, the row moves to the top of the screen and the cursor is positioned at that row. If no match exists, the cursor is positioned where the record would be located based on the sort sequence. You should use Locate to find records only within a View. For example, if you viewed Akron and you want to locate data for Cleveland, TDIS-CES displays a message that the record was outside the View. Use the Max up command to start the search at the top of the table. Figure 2-7 shows an example of a successful Locate.

```
----------------------  TDIS-CES VERIFY DRMA INVESTMENT ----  ROW 1 FROM 1839
COMMAND ===> _                                                SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Locate)
VIEW/PRT DATA => A (F-FRC, E-ECN, A-8 char loc, B-11 char loc)
LOC=> *           ALAC=> *        CS=> * FRC=> *     ECN=> *
PW=> *  INV=> *
  LOCATION      ALAC     CS     FRC      ECN      PW      INVESTMENT
-----------   -------    --    -----    -----     --     ------------
ADTNOHAA                 N      257C    809       N           -12,053
ADTNOHAA                 N      257C    810       N           284,967
ADTNOHAA                 N      357C    808       N            21,516
ADTNOHAA                 N      357C    809       N             1,304
ADTNOHAA                 N      357C    821       N             4,911
ADTNOHR0                 N      357C    808       N           129,939
ADTNOHR0                 N      357C    809       N            15,073
ADTPOHAA                 N      257C    810       N           118,799
ADTPOHAA                 N      357C    808       N            17,692
ADTPOHAA                 N      357C    809       N               896
ADTPOHAA                 N      357C    821       N             7,259
ADTPOHAC                 N      257C    810       N            73,002
ADTPOHAC                 N      357C    808       N           -44,278
ADTPOHAC                 N      357C    809       N             5,132
```

Figure 2-5. Viewing All

```
----------------------  TDIS-CES VERIFY DRMA INVESTMENT ----  ROW 3 FROM 1839
COMMAND ===> _                                                SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Locate)
VIEW/PRT DATA => A (F-FRC, E-ECN, A-8 char loc, B-11 char loc)
LOC=> *           ALAC=> *        CS=> * FRC=> 357C  ECN=> *
PW=> *  INV=> *
  LOCATION      ALAC     CS     FRC      ECN      PW      INVESTMENT
-----------   -------    --    -----    -----     --     ------------
ADTNOHAA                 N      357C    808       N            21,516
ADTNOHAA                 N      357C    809       N             1,304
```

Figure 2-6. Viewing With Specifications

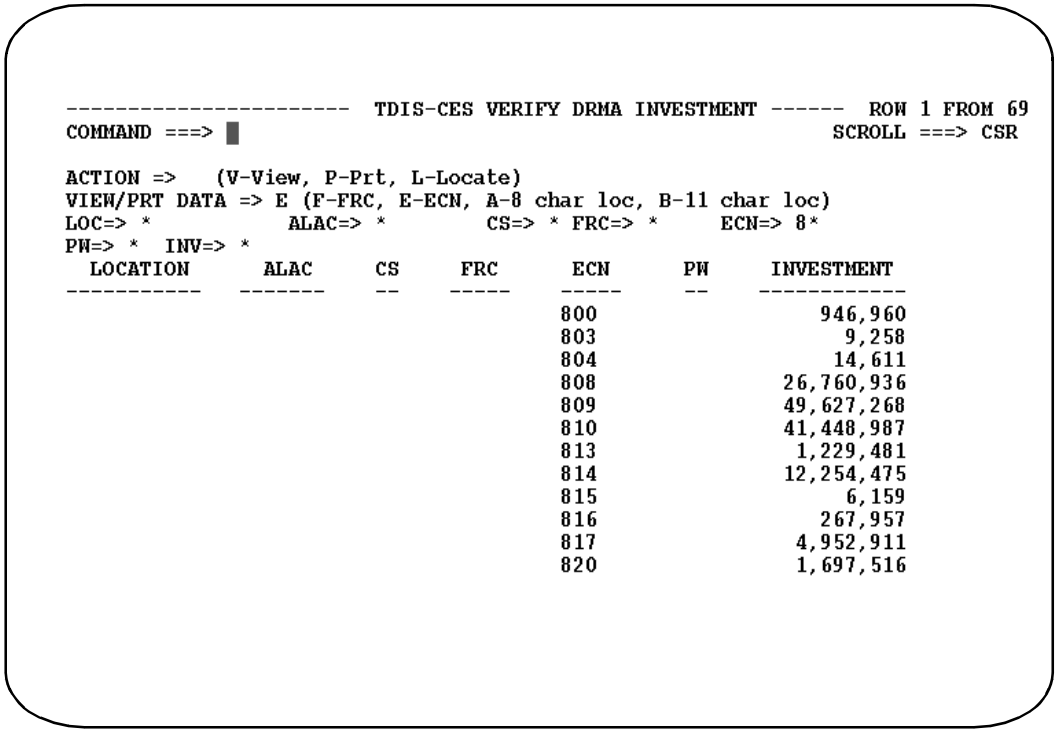


Figure 2-7. Locating Within a View

Table 2-4 describes the options in the Action field that enable you to edit investment and usage records, and user tables.

Entries in key fields are required for TDIS-CES to successfully process the update. Entries are saved between screens, except for the entry you made in the Action field.

In usage and investment, these actions position and override the View action. After executing any of these actions, view is automatically set to all, unless you are using the Supplemental Usage table. On the Supplemental Usage table, view does not change to all unless you have completed your transaction successfully.

Table 2-4. Screen-Specific Action Field Definitions for Editing Functions

Field	Description
Add	Adds the data you specify in the fields accepting entries on the screen. If you are editing a record in the user tables and accidentally delete it, use this command to add it to the table.
Change	Changes the non-key data for the specified key. If you are editing an investment or usage record and accidentally delete it, use this command to return the record to its original status.
Delete	Deletes the non-key data for the specified key.
Purge	Purges records prior to an entered date. This action is available for only certain table management options

2.9 Key Fields

Key fields are highlighted fields, and are present on many TDIS-CES screens. Information contained in key fields gives each TDIS-CES record unique identification. These fields cannot be duplicated. TDIS-CES also uses these fields to sort the data and establish views.

2.10 Using Fields With Asterisks

The fields displayed on line five of the sample screen (Figure 2-4) contain asterisks (*) that indicate that TDIS-CES uses an entry when processing a view, print, or locate. Entering a value in one of these fields limits the information TDIS-CES displays. Some of the fields accept a partial entry with an asterisk appended to the partial value to indicate a “match all” criteria. When appending an asterisk to a partial value, the asterisk must be the last character of the entry. Table 2-5 contains a list of the most common fields, and a description for each field.

Table 2-5. Common Fields

Field	Description
CC	This four-character field identifies the class code. The class code is obtained from TDIS, the Supplemental Usage table, or you provide it when you add usage data. You can execute a partial or full view by combining a partial value with an asterisk.
COUNT	This field identifies the number of working subdivisions.
CS	This one-character field identifies a central stock investment. Acceptable entries are Y or N. Overtyping the asterisk with one of these values causes TDIS-CES to display central stock that matches the value you specify.
ECN	This three-character field identifies the Equipment Category Number. This code is in the standard COMMON LANGUAGE® format. You can execute a partial or full Locate or View by combining a partial value with an asterisk. For example, entering **80*** indicates a partial view that displays all ECNs in the range of 800-809. This field is five characters on the Verify DRMA and Location, ECN, FRC Mapping table.
FRC	This five-character field identifies the Field Reporting Code associated with the data displayed on the remainder of the line. You can leave the asterisk and obtain the full listing or you can specify a value. When specifying, you must always enter the complete FRC. Appending an asterisk to a partial entry is unacceptable.
INVESTMENT	This 11-character field identifies the investment value associated with the data displayed on the remainder of the line. The use of commas when entering an investment value is optional. Acceptable values include any integer between zero and 999,999,999, inclusive. Appending an asterisk to a partial entry is unacceptable. This field is 13 characters on the Verify DRMA Investment screen, and accepts any value from zero to 999,999,999, inclusive. Negative values are displayed throughout the system, but only enterable on the Supplemental Investment panel.
LOC	This eight-character field identifies the location code associated with the data displayed on the remainder of the line. You can execute a partial or explicit view. The value you enter for a partial view ends with the asterisk (*).
PW	This one-character field indicates whether the investment is dedicated and common power, or standard circuit. This field always display a Y or N. A Y indicates a common dedicated and common power investment. An N indicates standard circuit equipment investment. Typing over the asterisk with one of those values causes TDIS-CES to display common dedicated and power, or standard circuit investments that match the value.

Table 2-5. Common Fields (Continued)

Field	Description
TD	This three-character field identifies the technology descriptor. The technology descriptor subdivides ECNs. TDIS provides the technology descriptor. This field is blank on every screen if you have not defined a Technology Weighting Table. See Section 6 for more information about Technology Descriptors.
SEP CAT	This 10-character field identifies the Separation Category. This data comes from the information you defined in the Class Codes to Category table.

The convention for using these fields with the View and Print actions is provided in Table 2-6.

Table 2-6. Using Fields Containing Asterisks

If you:	TDIS-CES displays:
leave the asterisk in place	all of the data for that column.
specify a partial value followed by an asterisk	all data that match the specified value. For example, abc* causes TDIS-CES to display all values beginning with abc.
type over the asterisk with a value	only the data that matches the value exactly.

2.11 Logical Operators

A logical operator allows you to search for specific values. Logical operators include the following:

- greater than sign (>)
- less than sign (<)
- the equals sign (=)
- asterisk (*)

One of these values preceding the value you enter causes TDIS-CES to display information that corresponds to the logical operator you entered. For example, if you entered **>1,000,000** in the INV field on the Verify DRMA Investment screen, TDIS-CES displays only the investment data that is greater than 1,000,000. Use the asterisk if you do not want to search for specific data.

Logical operators are allowed in the INV field on the following screens:

- Verify DRMA screen
- Match Usage and Investment screen
- Analyze/Adjust Investment screen
- Analyze/Adjust Usage screen
- Verify Study Results screen.

Figure 2-8 shows an entry with a logical operator in the INV field on the Verify DRMA Investment screen.

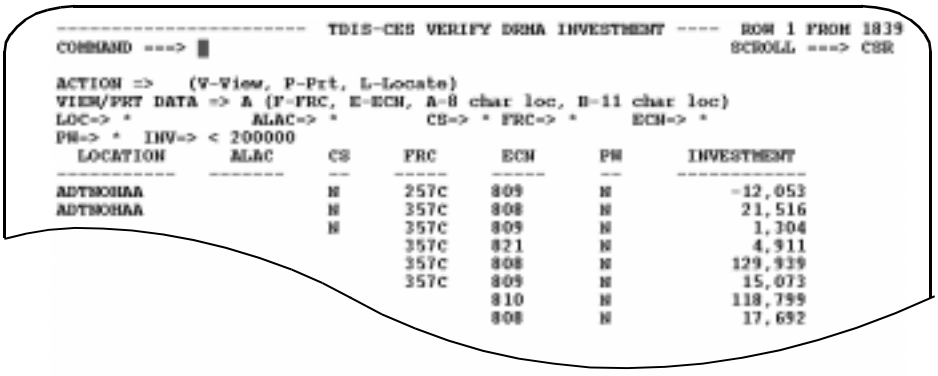


Figure 2-8. Using a Logical Operator

2.12 Data Entry

Use the following guidelines to enter information into TDIS-CES:

1. Type information into TDIS-CES screens field by field. When you have filled in a field, the cursor moves automatically to the next field. If you do not completely fill in a field, you can move the cursor to the next field with the TAB key.
2. You can type in capital or small letters. After you press the ENTER key, TDIS-CES converts small letters to capital letters.
3. When you change existing information, you can overtype the information currently displayed. If the new information does not completely cover the old information, use the space bar or erase EOF to remove any old data remaining.
4. When you finish entering information, press the ENTER key. If you have made incorrect entries, you receive a short error message with the cursor positioned on the field in error. Use the HELP command to display a detailed error message on line three of the screen.

2.13 Keyboard Keys Used With TDIS-CES

Listed below are the keys you may use for specific TDIS-CES functions. Your keyboard may have some or all of these keys. These keys may be useful when performing TDIS-CES functions.

ENTER key or RETURN key	Sends information on your terminal screen.
TAB	Moves the cursor forward to the next field.
BACKTAB	Moves the cursor backward to the previous field.
ARROW keys	Move the cursor one position in the direction indicated.

You may be able to hold down the TAB and ARROW keys for multiple cursor moves.

2.14 Error Screen

When TDIS-CES cannot process your request for a specific function, an error screen is displayed. To resolve the error condition, follow the suggestions on the report. If you cannot resolve the error, contact the system administrator.

Identified on the error screen are the following:

1. company name
2. process that failed
3. study area
4. program that failed
5. date and time of the run
6. page number
7. explanation of the failure.

Figure 2-9 shows a sample error screen.

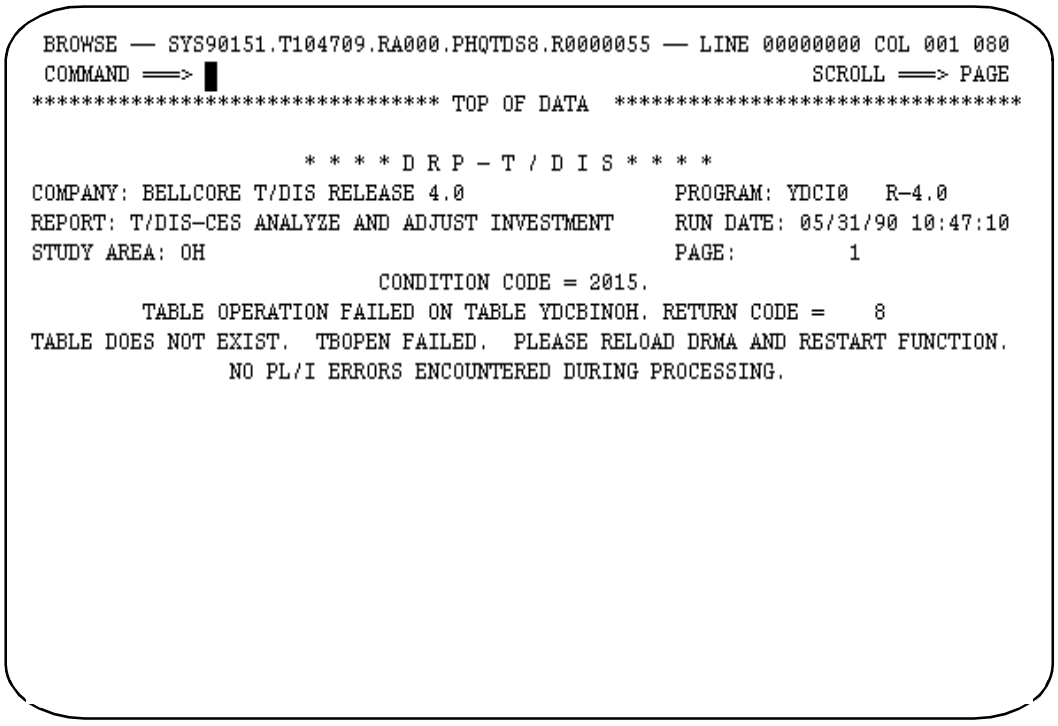


Figure 2-9. Sample Error Screen

2.15 Report Hardcopy Screen

The Report Hardcopy screen (Figure 2-10) allows you to produce a printout of the following reports:

1. Investment load
2. Usage load
3. Location Investment Totals subreport
4. Investment and Usage ECN Match subreport
5. Location/ECN Level Investment Without Usage subreport
6. ECN Level Investment Without Usage subreport
7. Pseudo Category (4. UNKNOWN) Audit Subreport
8. Status reports.

This screen is displayed automatically when you use the END command in the Command field in any of the above reports.

Follow the procedures below to produce a printout:

1. Type **Y** in the Print Hardcopy Report field.
2. Enter the range of pages to be printed. 1 to 9999 will print a whole report.
3. Enter the number of copies you would like to print (1-9) in the Number of Copies field.
4. Enter the destination of the printer in the Printer Destination field.
5. Enter the SYSOUT class code in the SYSOUT Class field.
6. Press the ENTER key to send the Usage Load Report to the printer.

To leave the Report Hardcopy screen without producing a printout:

1. Use the END command in the Command field, or enter **n** in the Print Hardcopy report field.
2. Press the ENTER key/

.

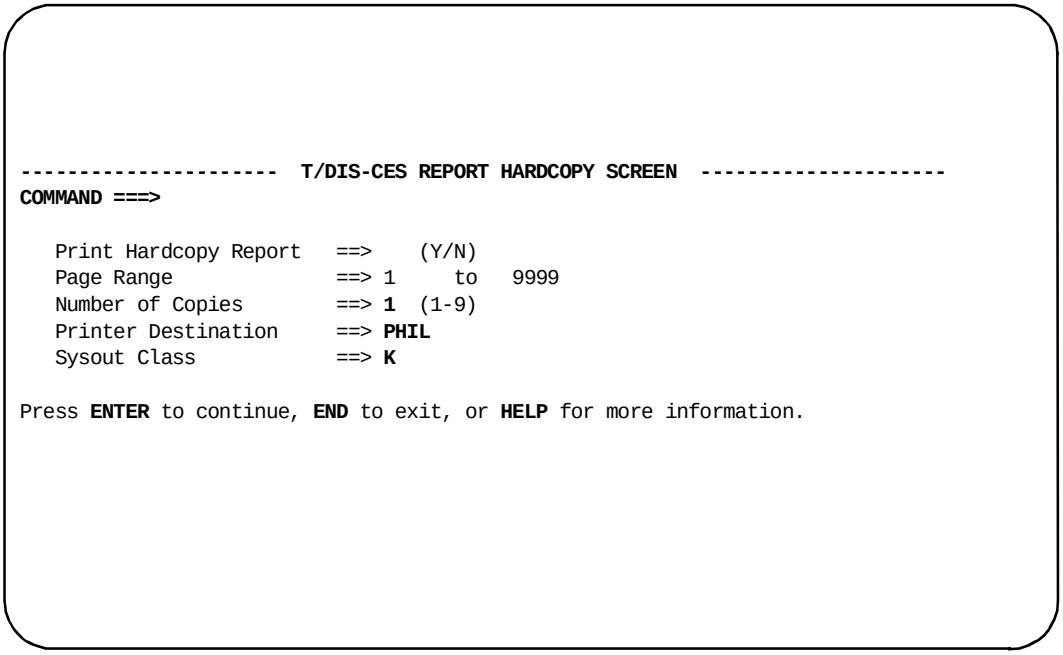


Figure 2-10. Report Hardcopy Screen

3. Loading the Data

Before each month's circuit equipment study, you must load the proper investment and usage data into the TDIS-CES system. This section discusses how to load investment and usage data using the following functions:

- Investment Load - This screen allows you to load investment data from DRMA into the TDIS-CES system. TDIS-CES needs this investment data to perform all of the subsequent steps in the study.
- Usage Load - This screen allows you to load usage data from TDIS into the TDIS-CES system. TDIS-CES needs this usage data to perform all of the subsequent steps in the study.

Some important points about the Investment and Usage Load functions:

- After executing an Investment Load or a Usage Load function, a Report screen and a Report Hardcopy screen are displayed.
- Only one user at a time may execute an Investment or Usage Load.
- If an Investment or Usage Load is in progress, any updates to the respective investment or usage data using the Analyze/Adjust screen will fail.
- If modifications are being made to the usage or investment data using the Analyze/ Adjust screens, the respective load will fail.
- View, Print, and Locate functions may be performed while an Investment or Usage Load is in progress, provided the tables exist.
- Successful completion of the Usage Load is necessary before execution of any of the functions that use usage data (match, analyze/adjust, basic study, or results).
- Successful completion of the Investment Load is necessary before execution of any of the functions that use investment data (DRMA, match, analyze/adjust, basic study, or results).
- You should never enter the usage or investment load function in more than one screen.

3.1 Investment Load

The purpose of the Load Investment function is to load the DRMA investment data into the TDIS-CES system for

- A specified date. This date is used for verification that the correct file is being used as input. The date is also used to determine if records will be selected from the Supplemental Investment and Location ECN Mapping tables. Each record has a date on it. If that date is greater than or equal to the specified date, it will be selected and merged with the supplied DR08 file during processing.

- A specified study area.

When loading the investment data, the Location ECN mapping does not occur until the Supplemental Investment and the DR08 investment are merged. The mapping specified in the Location ECN mapping is then applied to the investment that came from DR08 and the Supplemental Investment All ECNs are condensed from 5 to 3 characters and all FRCs "disappear." The investment data is evaluated and placed in the appropriate table, according to the following priority:

1. Power table - YDCPIN
2. CS table - YDCCIN
3. ECN 800 table - YDCEIN
4. Base table - YDCBIN.

Mapping is applied to Supplemental Investment as well as DRMA Investment.

If the investment data falls into more than one of the above tables, it is placed in highest-priority table. For example, if investment data meets both the CS and ECN 800 criteria, the data is placed in the CS table since that table has higher priority.

> **NOTE —** If you make changes to the Location ECN Mapping table after you have loaded the investment data, you **must** re-execute the Investment Load function. If the Supplemental Investment table is altered after the investment load process, you **must** also re-execute the Investment Load function. If you do not re-execute the Investment Load function, you will not be able to execute the basic study.

3.1.1 Accessing the Investment Load Screen

Use either of the following methods to access the Investment Load screen:

- From the TDIS-CES Main Menu, enter **IL** in the Option field.
- From any TDIS-CES screen, enter **=IL** in the Command field.

The Investment Load screen is displayed (see Figure 3-1).

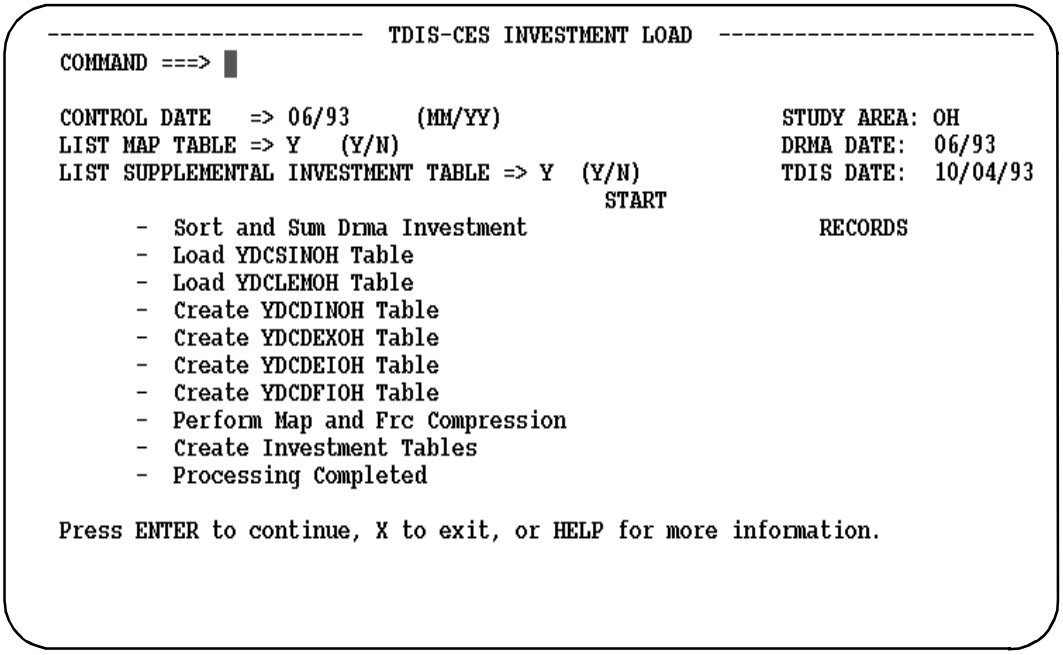


Figure 3-1. Investment Load Screen

3.1.2 Investment Load Screen Field Descriptions

Table 3-1 contains descriptions of each field on the Investment Load screen.

Table 3-1. Investment Load Screen Field Descriptions

Field	Description
CONTROL DATE	This date reflects the date of the investment information to be loaded; it must match the date in the DRMA file for the Investment Load to run successfully. You must enter the appropriate Control Date **before** you can load the DRMA data. The format of the control date must be *MM/YY*, where *MM* = the month (January = 01, ... December = 12), and *YY* = the last two digits of the year. The *MM* value must be expressed in two digits; for example, a Control Date of *1/90* is invalid. The control date is used to select Supplemental Investment and Location ECN Mapping records with dates that are greater than or equal to the control date. This field is blank if you are accessing the Investment Load screen for the very first time. Once this field is populated, the date will remain for the next Investment Load. To load a new month's data, overtype the existing Control Date with the current Control Date.
LIST MAP TABLE	This field allows you to include a formatted copy of the Location ECN Mapping table on the Investment Load Report screen. Acceptable values for this field are **Y** and **N**. This field is blank if you are accessing the Investment Load screen for the very first time. Once you enter a value into this field, that value will remain for subsequent Investment Loads until you change it.
LIST SUPPLEMENTAL INVESTMENT TABLE	This field allows you to include a formatted copy of the Supplemental Investment table on the Investment Load Report screen. Acceptable values for this field are **Y** and **N**. This field is blank if you are accessing the Investment Load screen for the very first time. Once you enter a value into this field, that value will remain for subsequent Investment Loads until you change it.
STUDY AREA	This view-only field identifies the study area that you chose on the TDIS-CES Access screen for the study. This field is pre-populated when you access the Investment Load screen. Data will be loaded only for the specified study area.

Table 3-1. Investment Load Screen Field Descriptions (Continued)

Field	Description
DRMA DATE	This view-only field identifies the date of the DRMA information from the last successful Investment Load. This field is automatically updated when the current Investment Load is successful.
TDIS DATE	This view-only field identifies the date of the TDIS information from the last successful Usage Load.
Items preceded by a dash	These items indicate the procedures performed by TDIS-CES when loading the investment data.
START	This field is positioned over the column that identifies the time TDIS-CES begins each step in the Investment Load.
RECORDS	This field is positioned over the column that identifies the number of records read or written in a particular step.

3.1.3 Loading the Investment Data

To execute an investment load:

1. Enter the appropriate date in the Control Date field. This date must be entered in MM/YY format. If a date already exists in this field, type the new date over the existing date.
2. Enter **Y** or **N** in the List Map Table field.
3. Enter **Y** or **N** in the List Supplemental Investment Table field.
4. Press the ENTER key. The Investment Load will begin. The Start column is populated with the time TDIS-CES begins each step in the loading process. The Records column is populated with the number of records TDIS-CES processes.

See Figure 3-2 for an illustration of the Investment Load screen after the data has been loaded.

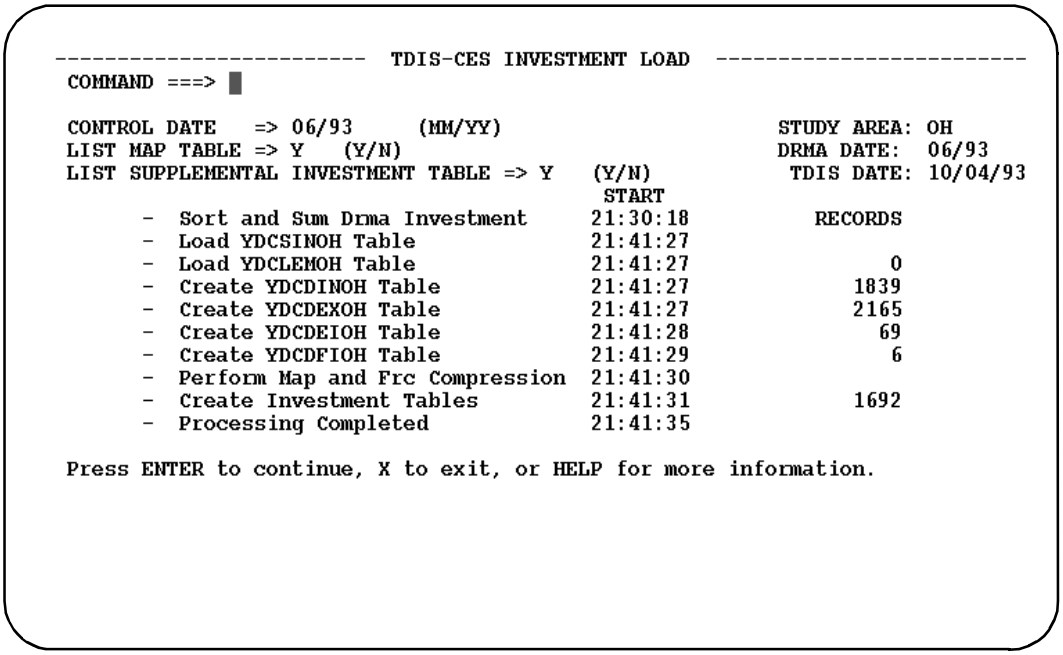


Figure 3-2. Investment Load Screen - After the Data is Loaded

> **NOTE —** While being read into TDIS-CES, records are summed to 8-character locations and filtered to include only input study area and record types 2 and 4. All other record types never enter the TDIS-CES system. 11 character location records are used for the verify DRMA Investment.

3.1.4 The Investment Load Report Screen

The Investment Load Report, which is automatically displayed after every Investment Load, displays program output information. The first screen of this report is also displayed with an error message if an error appears on the Investment Load screen.

The Investment Load Report has two parts:

- Formatted table information - This part of the Investment Load Report appears *only* if you entered **Y** in the List Map Table field. or the List Supplemental Investment Table field This part of the report includes a complete formatted copy of the Location ECN Mapping table and a formatted copy of the Supplemental Investment table.

- Record information - The record information appears at the end of every Investment Load report. It includes the company name, TDIS release number, report name, study area, control date, program name, and the run date and time of the program. This part of the report also includes the following:
  - — Sorted DRMA records read and written
  - — Sorted DRMA records read and written, 11-character location
  - — ECN subtotal records written
  - — FRC subtotal records written
  - — Supplemental Investment Record read
  - — Supplemental Investment record selected
  - — Location and ECN mapping tables read
  - — Investment table records written to the Base, Central Stock, ECN 800, and Power tables.

To access the Investment Load Report screen from the Investment Load screen, press the ENTER key at the completion of an investment load (see Figure 3-3). Use the *up* and *down* commands to scroll through the Investment Load Report screens.

```
 BROWSE -- TDISD.MO.YDCILR ------------------------- LINE 00000000 COL 001 080
 COMMAND ===>                                              SCROLL ===> PAGE
******************************** TOP OF DATA *********************************

                      * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCIL0  R-5.1
REPORT: T/DIS-CES INVESTMENT LOAD AND MAP         RUN DATE: 10/06/93 14:37:34
STUDY AREA: MO                                    PAGE:         1
DRMA DATE: 10/90
                SUPPLEMENTAL INVESTMENT TABLE (SELECTED ROWS)
         LOCATION     FRC     ECN    CS    PW     INV ADJUST     DATE
         ========    =====    ===    ==    ==    ------------    -----
         AAAAMOAB    1257C    805    N     Y           75,000    12/99
         AAAAMOAC    1257C    806    Y     N            6,000    12/99
```

Figure 3-3. Beginning of the Investment Load Report with a Formatted Copy of the Supplemental Investment Table

```
BROWSE -- TDISD.MO.YDCILR ------------------------- LINE 00000029 COL 001 080
COMMAND ===>                                              SCROLL ===> PAGE
                        * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCIL0  R-5.1
REPORT: T/DIS-CES INVESTMENT LOAD AND MAP         RUN DATE: 10/06/93 14:37:34
STUDY AREA: MO                                    PAGE:         2
DRMA DATE: 10/90
                       LOCATION ECN MAPPING TABLE
          OLD LOC      ECN5      FRC       NEW LOC     ECN3      DATE
          ========     =====     =====     --------    ----      ----
          ABLNMOCC     80012      257C     ABLNMODC    808       12/93
          ABLNMOCC     80022      257C     ABLNMODC    806       11/93
          ABLNMOCD     80002      257C     ABLNMODC    808       12/93
          ABLNMOCD     80012      257C     ABLNMORC    808       11/93
          ABLNMOCD     80112      257C     ABLNMORC    808       09/93
          ABLNMOCD     80212      257C     ABLNMORC    808       08/93
          ABLNMOCD     80312      257C     ABLNMORC    808       08/93
          ABLNMOCD     80412      257C     ABLNMORC    808       08/93
               NO PL/I ERRORS ENCOUNTERED DURING PROCESSING.
```

Figure 3-4. The Location ECN Mapping Table for the Investment Load Report

```
 BROWSE -- TDISD.OH.YDCILR ------------------------- LINE 00000000 COL 001 080
 COMMAND ===> _                                            SCROLL ===> CSR
******************************** TOP OF DATA ********************************

                        * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCIL0  R-5.2
REPORT: TDIS-CES INVESTMENT LOAD AND MAP          RUN DATE: 07/29/94 21:30:18
STUDY AREA: OH                                    PAGE:         1
DRMA DATE: 06/93
               NO PL/I ERRORS ENCOUNTERED DURING PROCESSING.

    SORTED DRMA RECORDS READ/WRITTEN:                              1,839

    SORTED DRMA RECORDS READ/WRITTEN 11 CHAR LOCATION:             2,165
    ECN SUBTOTAL RECORDS WRITTEN:                                     69
    FRC SUBTOTAL RECORDS WRITTEN:                                      6
    SUPPLEMENTAL INVESTMENT TABLE RECORDS READ:                        0
                                        SELECTED:                      0
    LOCATION AND ECN MAPPING TABLE RECORDS READ:                       0
    INVESTMENT TABLE RECORDS WRITTEN TO    BASE:                   1,541
                                        CENTRAL STOCK:                29
                                        ECN 800:                      18
                                        POWER:                       104
```

Figure 3-5. The Record Information for the Investment Load Report

NOTE — DRMA records are summed to an 8-character location and filtered for the study area and record type 2 and 4 before being read into the circuit equipment study. The number of records read/written reflects the sorted/summed records and equals the number of records read into the circuit equipment study rather than the number of records in the DR08 file in DRMA.

3.2 Usage Load

The purpose of the Load Usage function is to load the TDIS usage data into the TDIS-CES system for

- A specified date. This date is used for verification purposes.
- A specified state within a CPU.

The Usage Load program loads equipment complement and subdivision information into the appropriate TDIS-CES databases. Only BCC-owned, working equipment with ECNs in the range of 801-899 are loaded from the TDIS data. This data is merged with any supplemental usage for the study area and loaded into the TDIS-CES databases.

During the Usage Load, the facility group code of carrier facilities is checked to see if it matches any of the group codes in the HICAP Group Code table. If a match is found, the complement information is marked as "HICAP." (**Note** - With normalized usage or equipment only load, the HICAP group codes are not used.) The ECN and facility group of carrier facilities is checked against the Technology Weighting table. If a match is found, then this facility's information is loaded as a sub-ECN with the respective ECN technology descriptor.

> **NOTE —** If you make changes to the Technology Weighting, HICAP Group Codes, or Supplemental Usage tables after you have loaded the usage data, you **must** re-execute the Usage Load function. If you do not re-execute the Usage Load function, you will not be able to execute the basic study. *With normalized usage, the Usage Load function does **not** need to be re-executed if changes are made to HICAP group codes*.

3.2.1 Accessing the Usage Load Screen

Use either of the following methods to access the Usage Load screen:

- From the TDIS-CES Main Menu, enter **UL** in the Option field.
- From any TDIS-CES screen, enter **=UL** in the Command field.

The Usage Load screen is displayed (see Figure 3-6).

```
---------------------------  T/DIS-CES USAGE LOAD  --------------------------
COMMAND ===>

CONTROL DATE => 08/01/93 (MM/DD/YY)                      STUDY AREA: BC
STATE CODE   => BC (Select Usage for this State)         DRMA DATE:
HICAP CODE   =>    (Optional 2 Character Code)           T/DIS DATE: 08/01/93
LIST TABLES  => Y  (Y/N)
CXR CC DATA  => F  (F-Facilities, N-Normalized Facilities, E-Normalized Equip)
                                TIME & DATE STAMP
      -  Load User Tables
      -  Extract MNFACSUM Data
      -  Extract MEQPSUM Data
      -  Sort Complement Data
      -  Sort Subdivision Data                           RECORDS
      -  Create YDCCMPBC Table
      -  Create YDCSBDBC Table
      -  Processing completed

Press ENTER to continue, END to exit, or HELP for more information
```

Figure 3-6. Load Usage Screen

3.2.2 Usage Load Screen Field Descriptions

Table 3-2 contains descriptions of each field on the Usage Load screen.

Table 3-2. Usage Load Screen Field Descriptions

Field	Description
CONTROL DATE	The date in this field reflects the date of the usage information to be loaded; it must match the date in the TDIS database for the Usage Load to run successfully. You must enter the appropriate Control Date **before** you can load the TDIS data. The format of the date must be *MM/DD/YY*, where *MM* = the month (January = 01, ... December = 12), *DD* = the day, and *YY* = the last two digits of the year. The *MM* and *DD* values must be expressed in two digits; for example, the Control Date should be expressed as *01/05/90* rather than *1/5/90*. This field is blank if you are accessing the Usage Load screen for the very first time. Once this field is populated, the date will remain for the next Usage Load. To load a new month's data, overtype the existing Control Date with the new Control Date.
STATE CODE	This field identifies the state in which the study area resides. Most often, the value in this field is the same as the value in the Study Area field; however, when the study area is different from the state code, TDIS-CES searches the CLLI™ locations for the appropriate state code. This field is blank if you are accessing the Usage Load screen for the very first time. This option was designed for companies in which the study area in DRMA and the state code differ.
HICAP CODE	This field identifies a user-supplied class code that will be appended with the underlying HICAP system class code and posted to all HICAP spares in order to allocate HICAP spare investment to the correct jurisdiction. The class code used should not exist in the usage data so that spares can be easily identified. The new HICAP spare class codes must be entered into the Class Code to Separations Category table and should adhere to the jurisdiction of the System Class Code in positions 3 and 4. This field is blank if you are accessing the Usage Load screen for the very first time. Entries in this field must be two alphanumeric characters. This field is optional.

Table 3-2. Usage Load Screen Field Descriptions (Continued)

Field	Description
LIST TABLES	This field allows you to include formatted copies of the Technology Weighting, HICAP Group Codes, HICAP Class Codes, Usage Mapping, and Supplemental Usage tables and the Carrier ECN and Technology Descriptor, Technology Descriptor Error Frequency, Class Code Frequency, MFACSUM ECN Error Frequency, Owner Error Frequency, HICAP Code Error Frequency, MEQPSUM ECN Error Frequency, and Database Owner Error Frequency reports on the Usage Load Report. Acceptable values for this field are **Y** and **N**. This field is blank if you are accessing the Usage Load screen for the very first time. Once you enter a value into this field, that value will remain for subsequent Usage Loads until it is changed.
CARRIER CLASS CODE DATA	This field allows you to choose facilities, normalized facilities, or normalized equipment data for use in Usage Load. *Facilities* data (option F) will select non-carrier usage from MEQPSUM non-normalized carrier usage from MFACSUM non-normalized records. *Normalized facilities* data (option N) will select non-carrier usage from MEQPSUM non-normalized records and carrier usage from MFACSUM normalized records. *Normalized equipment* data (option E) will select all usage from MEQPSUM normalized records. Acceptable values for this field are **F**, **N**, or **E**. This field is blank if you are accessing the Usage Load screen for the very first time. Once you enter a value into this field, that value will remain for subsequent Usage Loads until it is changed.
STUDY AREA	This view-only field identifies the study area you chose for the study. This field is populated when you access the Usage Load screen.
DRMA DATE	This view-only field identifies the date of the DRMA information from the last successful Investment Load.
TDIS DATE	This view-only field identifies the date of the TDIS information from the last successful Usage Load. This field will automatically be updated when the current Usage Load is successful.
Items preceded by a dash	These items indicate the procedures performed by TDIS-CES when loading the usage data.
TIME&DATE STAMP	This field is positioned over the column that identifies the time and date TDIS-CES begins each step in the Usage Load.

Table 3-2. Usage Load Screen Field Descriptions (Continued)

Field	Description
RECORDS	This field is positioned over the column that identifies the number of usage records that are loaded into the appropriate TDIS-CES database.

3.2.3 Loading the Usage Data

To execute a usage load:

1. Enter the appropriate date in the Control Date field. This date must be entered in MM/DD/YY format. If a date already exists in this field, type the new date over the existing date.
2. Enter the appropriate code in the State Code field.
3. Enter the appropriate code in the HICAP Code field. This option is applicable *only* for the **F** option (see Item 5).
4. Enter **Y** or **N** in the List Tables field.
5. Enter **F**, **N**, or **E** in the CXR CC Data field.
6. Press the ENTER key. The Usage Load will begin. The Time & Date Stamp column is populated with the time and date each step in the loading process begins. The Records column is populated with the number of usage records that are loaded into the TDIS-CES system.

See Figure 3-7 for an illustration of the Usage Load screen after the data has been loaded.

```
---------------------------  T/DIS-CES USAGE LOAD  --------------------------
COMMAND ===>

CONTROL DATE => 08/08/92  (MM/DD/YY)                     STUDY AREA: MO
STATE CODE   => MO  (Select Usage for this State)        DRMA DATE:  10/90
HICAP CODE   => AA  (Optional 2 Character Code)          T/DIS DATE: 08/08/92
LIST TABLES  => Y   (Y/N)
CXR CC DATA  => N   (F-Facilities, N-Normalized Facilities, E-Normalized Equip)
                                TIME & DATE STAMP
      -  Load User Tables       93/09/27-13:45:09
      -  Extract MNFACSUM Data  93/09/27-13:45:21
      -  Extract MEQPSUM Data   93/09/27-13:46:09
      -  Sort Complement Data   93/09/27-13:46:29
      -  Sort Subdivision Data  93/09/27-13:46:33       RECORDS
      -  Create YDCCMPMO Table  93/09/27-13:46:53          2957
      -  Create YDCSBDMO Table  93/09/27-13:46:57         30640
      -  Processing completed   93/09/27-13:47:33

Press ENTER to continue, END to exit, or HELP for more information.
```

Figure 3-7. Usage Load Screen - After the Usage Data Has Been Loaded

3.2.4 The Usage Load Report Screen

The Usage Load Report, which is automatically displayed after every usage load, displays program output information. The first screen of this report is also displayed with an error message if the date in the Control Date field of the Usage Load screen is incorrect.

The Usage Load Report has three parts:

- CPU processing information - This first part of the Usage Load Report contains the company name, TDIS release number, report name, study name, control date, program name, and the run date and time of the program.
- Formatted table information - This part of the Usage Load Report appears *only* if you entered **Y** in the List Tables field. This part of the report includes a complete formatted copy of the Technology Weighting, HICAP Group Codes, and Supplement Usage tables.
- Record information - This part of the Usage Load Report includes the number of MFACSUM and MEQPSUM records read/written for the usage load. This part of the report appears at the end of every Usage Load Report.

To access the Usage Load Report screen from the Usage Load screen, press the ENTER key (see Figure 3-7) when all the loading steps are complete. Use the *up* and *down* commands to browse through the Usage Load Report screens.

3.2.4.1 Usage Load Report Tables

Figure 3-8 shows the Multi-CPU Processing Information report.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                          PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION             RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                PAGE:         1
CONTROL DATE: 08/08/92

                    MULTICPU PROCESSING INFORMATION
FILENAME  CPU  DATE
--------  --- ------
MEQPSUM : SL  080892
MFACSUM : SL  080892
          FILENAME CPU  DATE
          -------- --- ------
MAX DATE: MEQPSUM  SL  080892
MIN DATE: MEQPSUM  SL  080892
DIFF DAYS:                0
```

Figure 3-8. Usage Load Report: Multi-CPU Processing Information

Figure 3-9 shows the HICAP Group Code Table. This report lists the contents of the HI-CAP Group Code table YDCHGC?? in alphabetical order when the “LIST TABLE” option is selected.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         2
CONTROL DATE: 08/08/92

                         HI-CAP GROUP CODE TABLE

     GROUP CODE    GROUP CODE    GROUP CODE    GROUP CODE    GROUP CODE
     ==========    ==========    ==========    ==========    ==========
     F             N             NN            R


                          PROPRIETARY
                 BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-9. Usage Load Report: HICAP Group Code Table

Figure 3-10 shows the HICAP Class Code Table. This report lists the contents of the HI-CAP Class Code table YDCHCC?? in alphabetical order when the “LIST TABLE” option is selected.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         3
CONTROL DATE: 08/08/92

                         HI-CAP CLASS CODE TABLE

    CLASS IND   CLASS IND   CLASS IND   CLASS IND   CLASS IND   CLASS IND
    ===== ===   ===== ===   ===== ===   ===== ===   ===== ===   ===== ===
    UR    P     YR    M


                              PROPRIETARY
                    BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-10. Usage Load Report: HICAP Class Code Table

Figure 3-11 shows the Technology Weighting Table. This report lists the contents of the Technology Weighting Table YDCTCW?? in alphabetical order when the "LIST TABLE" option is selected. This listing includes all technology types found, the associated ECN codes and the weighting factor.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         4
CONTROL DATE: 08/08/92

                        TECHNOLOGY WEIGHTING TABLE

       ECN TD  WEIGHTING FACTOR                ECN TD  WEIGHTING FACTOR
       === === ================                === === ================
       808 PT1           1.0000                808 T0            0.1250
       808 T1            1.0000                808 T1C           1.5000
       808 T1S           1.0000                808 T1U           1.0000
       808 T1Z           1.0000                808 T17           1.0000
       808 T2            0.7500                808 T2X           0.7500
       808 T2Z           0.7500                809 PT1           1.0000
       809 T0            1.0000                809 T01           1.0000
       809 T1            1.0000                809 T1C           1.5000
       809 T1S           1.0000                809 T1U           1.0000
       809 T1Z           1.0000                809 T17           1.0000
       813 T3X           1.0000                813 T4X           1.5000
       814 T3X           1.0000                814 T4X           1.5000
       814 T6X           2.0000                818 T4X           5.0000
```

Figure 3-11. Usage Load Report: Technology Weighting Table

Figure 3-12 shows the Usage Mapping (Selected Rows) Table. This report lists the contents of the Usage Mapping table YDCUEM?? in alphabetical order when the “LIST TABLE” option is selected. this listing includes usage to be mapped from one location, ECN to another location ECN.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         5
CONTROL DATE: 08/08/92

                  USAGE MAPPING TABLE (SELECTED ROWS)

        LOCATION    ECN    TD     NEW LOC    NEW ECN    NEW TD    DATE
        ========    ===    ===    =======    =======    ======    =====
        AAAAMOAB    804           AAABMOAA                        06/97
        AAAAMOAC    806           AAAAMOAA                        12/99




                              PROPRIETARY
                  BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-12. Usage Load Report: Usage Mapping (Selected Rows) Table

Figure 3-13 shows the Supplemental Complement Usage Table YDCSCP?? in alphabetical order when the "LIST TABLE" option is selected. This report displays the complement data loaded for the study area. The data is from the supplemental usage that is a part of the table subsystem in CES.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         6
CONTROL DATE: 08/08/92

                  SUPPLEMENTAL COMPLEMENT USAGE TABLE

   LOCATION ECN TD  HC COMPL COUNT TOTAL COMPL EXP DATE
   ======== === === == =========== =========== ========
   AAAAMOAA 801     N            1           1 99/99
   AAAAMOAA 803     N            1           1 99/99
   PISCNJ01 809     Y          100         100 99/99
   PISCNJ01 810     Y          100         100 99/99




                         PROPRIETARY
                 BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-13. Usage Load Report: Supplemental Complement Usage Table

Figure 3-14 shows the Supplemental Subdivision Usage Table. This report lists the contents of the Supplemental Subdivision Usage table YDCSSB?? in alphabetical order when the “LIST TABLE” option is selected.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         7
CONTROL DATE: 08/08/92

                    SUPPLEMENTAL SUBDIVISION USAGE TABLE

   LOCATION ECN TD  CC      TOTAL COUNT EXP DATE
   ======== === === ==== ============== ========
   PISCNJ01 809     AA           10.000 99/99
   PISCNJ01 809     BB           10.000 99/99
   PISCNJ01 809     CC           10.000 99/99




                          PROPRIETARY
                  BELLCORE AND AUTHORIZED CLIENTS ONLY
```

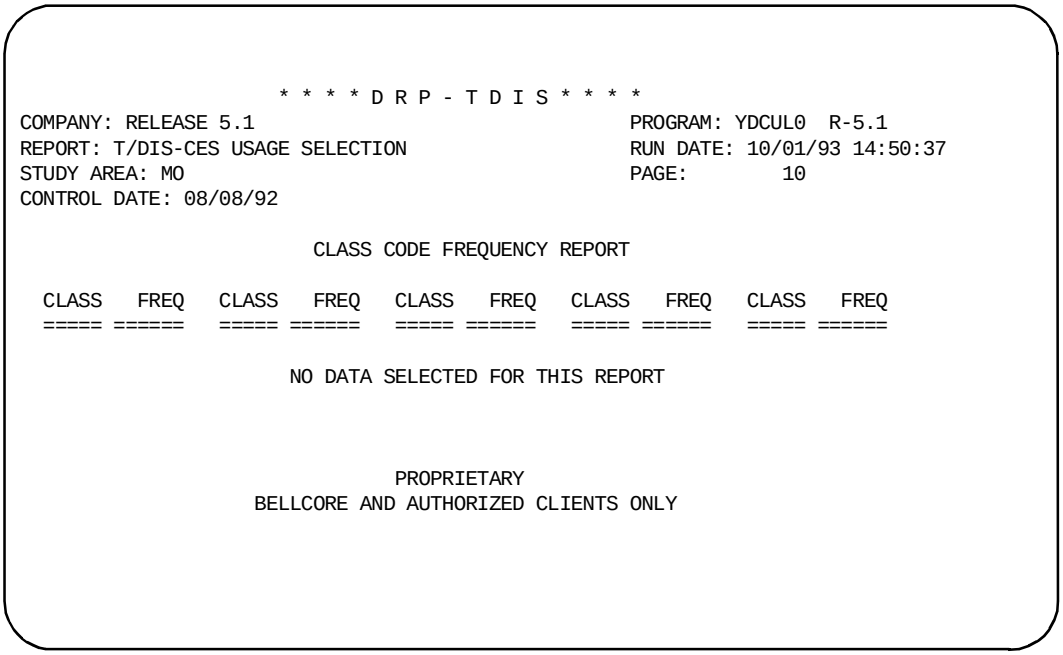
Figure 3-14. Usage Load Report: Supplemental Subdivision Usage Table

Figure 3-15 shows the Carrier ECN and Technology Descriptor Report. This report lists the carrier ECN and Technology Descriptor report for all ECN's and TD's found on the MFACSUM file matching the Technology Weighting YDCTCW?? table for the BCC owner.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         8
CONTROL DATE: 08/08/92

               CARRIER ECN AND TECHNOLOGY DESCRIPTOR REPORT

   ECN  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD  TD
   === === === === === === === === === === === === === === === === === ===
   804
   808 PT1 T0  T0S T1  T1C T1M T1S T1U T1Z T17 T2  T2X T2Z T3  T3U T3X T3Z
       T4X
   809 PGC PT1 TLA T0  T1  T1C T1F T1U T1Z T17
   810
   813 T3X T4X
   814 T2  T3  T3P T3U T3X T3Z T4X T6X
   824     N
   826
   829     A
   834
   837
   838
   842
```

Figure 3-15. Usage Load Report: Carrier ECN and Technology Descriptor Report

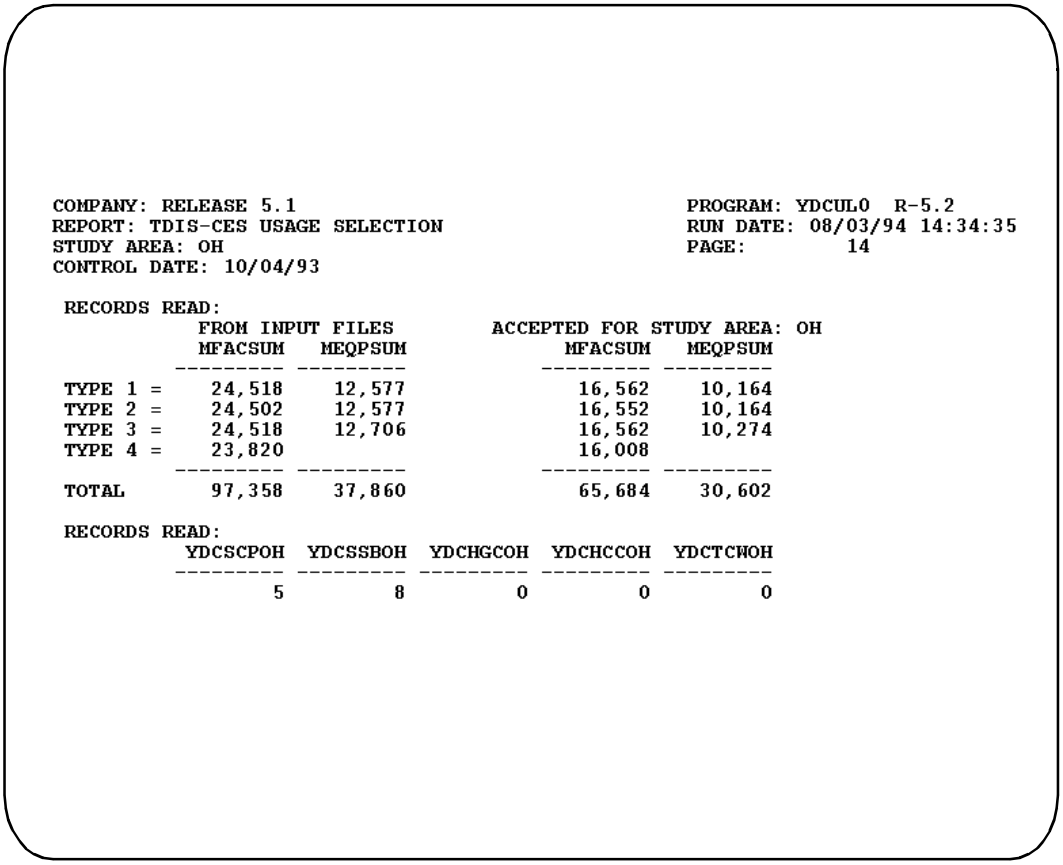
Figure 3-16 shows the Class Code Frequency Report. This report lists all the Class codes with frequencies for all Class codes found on the MFACSUM file for the BCC owner.



```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:        10
CONTROL DATE: 08/08/92

                        CLASS CODE FREQUENCY REPORT

  CLASS   FREQ   CLASS   FREQ   CLASS   FREQ   CLASS   FREQ   CLASS   FREQ
  ===== ======   ===== ======   ===== ======   ===== ======   ===== ======

                     NO DATA SELECTED FOR THIS REPORT


                              PROPRIETARY
                  BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-16. Usage Load Report: Class Code Frequency Report

Figure 3-17 shows the Record Information Report.



```
COMPANY: RELEASE 5.1                                  PROGRAM: YDCUL0  R-5.2
REPORT: TDIS-CES USAGE SELECTION                      RUN DATE: 08/03/94 14:34:35
STUDY AREA: OH                                        PAGE:        14
CONTROL DATE: 10/04/93

 RECORDS READ:
             FROM INPUT FILES          ACCEPTED FOR STUDY AREA: OH
              MFACSUM   MEQPSUM             MFACSUM   MEQPSUM
            --------- ---------           --------- ---------
 TYPE 1 =     24,518    12,577              16,562    10,164
 TYPE 2 =     24,502    12,577              16,552    10,164
 TYPE 3 =     24,518    12,706              16,562    10,274
 TYPE 4 =     23,820                        16,008
            --------- ---------           --------- ---------
 TOTAL        97,358    37,860              65,684    30,602

 RECORDS READ:
              YDCSCPOH  YDCSSBOH  YDCHGCOH  YDCHCCOH  YDCTCWOH
             --------- --------- --------- --------- ---------
                     5         8         0         0         0
```

Figure 3-17. Usage Load Report: Record Information

Table 3-3. Usage Load Report: Record Information Field Descriptions

Field	Description
MFACSUM	The total in this column indicates the total number of MFACSUM records read from the input file.
MEQPSUM	The total in this column indicates the total number of MEQPSUM records read from the input file.
MFACSUM	The total in this column indicates the total number of MFACSUM records read for the specified study area.
MEQPSUM	The total in this column indicates the total number of MEQPSUM records read for the specified study area.
YDCSCP*XX*	The total in this column indicates the number of Supplemental Complement records read for study area *XX*.
YDCSSB*XX*	The total in this column indicates the number of Supplemental Subdivision records read for study area *XX*.
YDCHGC*XX*	The total in this column indicates the number of HICAP Group Codes records read for study area *XX*.
YDCTCW*XX*	The total in this column indicates the number of Technology Weighting records read for study area *XX*.
YDCCMP*XX*	The total in this column indicates the number of Complement Usage records written for study area *XX*.
YDCSBD*XX*	The total in this column indicates the number of Subdivision Usage records written for study area *XX*.

3.2.4.2 Usage Load Report Error Reports

Figure 3-18 shows the Technology Descriptor Error Frequency Report. This report lists all ECN'S and descriptors from the MFACSUM file for the BCC owner that cannot be found in the Technology Weighting table YDCTCW??. A frequency count is included.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:         9
CONTROL DATE: 08/08/92

                TECHNOLOGY DESCRIPTOR ERROR FREQUENCY REPORT

    ECN  TD   FREQ    ECN  TD   FREQ    ECN  TD   FREQ    ECN  TD   FREQ
    === === ======    === === ======    === === ======    === === ======
    804 N      153    804 PGC      5    810 PT1   2023    810 T3      10
    810 T3P      9    824 N      107    826 PGC      1    826 T2       4
    829 A       14    834 OC0     78    834 T1C     77    834 T2      62
    834 T2X      1    834 T3     654    834 T3P     12    834 T3X    288
    834 T3Z    104    837 TLA      2    837 T2      21    837 T3      89
    837 T3P     30    837 T3X     58    837 T3Z     24    838 T1C      4
    838 T2     313    838 T3     178    838 T3P     61    838 T3X    192
    838 T3Z      8    838 T4X      2    842 T1     235    853 A       22
    853 CT      56    861 T0     304    861 T0S      3    861 T1      22
    861 T1S      3    893 DRU    220    893 T2      93    893 T3      12
    893 T3X     60    894 T3X      8


                              PROPRIETARY
                    BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-18. Usage Load Report: Technology Descriptor Error Frequency Report

Figure 3-19 shows the MFACSUM ECN Error Frequency Report. This report lists the ECN's with frequencies for all ECN codes found on the MFACSUM FILE for the BCC owner that are in error (not within the range 801-899).

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                          PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION             RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                PAGE:        11
CONTROL DATE: 08/08/92

                    MFACSUM ECN ERROR FREQUENCY REPORT

   ECN   FREQ     ECN   FREQ     ECN   FREQ     ECN   FREQ     ECN   FREQ
   === ======     === ======     === ======     === ======     === ======
   607   4280     800   4398     999    320

                              PROPRIETARY
                    BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-19. Usage Load Report: MFACSUM ECN Error Frequency Report

Figure 3-20 shows the Owner Error Frequency Report. This report lists the owners with frequencies for all owners found on the MFACSUM file that are not the BCC owner.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:        12
CONTROL DATE: 08/08/92

                       OWNER ERROR FREQUENCY REPORT

    OWNER   FREQ      OWNER   FREQ      OWNER   FREQ      OWNER   FREQ
    ===== ======      ===== ======      ===== ======      ===== ======
              10      F           2     X       8124

                          PROPRIETARY
                  BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-20. Usage Load Report: Owner Error Frequency Report

Figure 3-21 shows the HICAP Code Error Frequency Report. This report lists the HICAP Discrepancies where the HICAP indicators, Group Codes and Class Codes are not of the same type in the MFACSUM file for the BCC owner.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:        13
CONTROL DATE: 08/08/92

                    HICAP CODE ERROR FREQUENCY REPORT

 GROUP CLASS HICAP   FREQ         ERROR                    SUGGESTED
 CODE  CODE   IND              DESCRIPTION                   ACTION
 ===== ===== ===== ====== ================   ================================
 F     B3XA    ON       9 CLASS CODE SET OFF - ADD CLASS CODE
 F     B7XI    ON       2 CLASS CODE SET OFF - ADD CLASS CODE
 F     B8XA    ON       1 CLASS CODE SET OFF - ADD CLASS CODE
 F     B8XI    ON       1 CLASS CODE SET OFF - ADD CLASS CODE
 F     CMXI    ON       1 CLASS CODE SET OFF - ADD CLASS CODE
 F     GSXA    ON       8 CLASS CODE SET OFF - ADD CLASS CODE
 F     GSXI    ON       2 CLASS CODE SET OFF - ADD CLASS CODE
 F     K2XA    ON       3 CLASS CODE SET OFF - ADD CLASS CODE
 F     NSXA    ON       1 CLASS CODE SET OFF - ADD CLASS CODE
 F     SHXA    ON       2 CLASS CODE SET OFF - ADD CLASS CODE
 F     SHXI    ON       1 CLASS CODE SET OFF - ADD CLASS CODE
 F     URXA    ON      11 CLASS CODE SET OFF - ADD CLASS CODE
 F     URXI    ON       2 CLASS CODE SET OFF - ADD CLASS CODE
 F     USXA    ON      25 CLASS CODE SET OFF - ADD CLASS CODE
```

Figure 3-21. Usage Load Report: HICAP Code Error Frequency Report

Figure 3-22 shows the MEQPSUM ECN Error Frequency Report. This report lists the ECN's with frequencies for all ECN codes found on the MEQPSUM file for the BCC owner that are in error (not within the range 801-899).

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:        17
CONTROL DATE: 08/08/92

                    MEQPSUM ECN ERROR FREQUENCY REPORT

   ECN   FREQ     ECN   FREQ     ECN   FREQ     ECN   FREQ     ECN   FREQ
   === ======     === ======     === ======     === ======     === ======
   101     12     601      3     605      2     607    889     608    560
   8AS     87     800    794

                              PROPRIETARY
                    BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-22. Usage Load Report: MEQPSUM ECN Error Frequency Report

Figure 3-23 shows the Database Owner Error Frequency Report. This report lists the database owners from the MEQPSUM file that do not match the selected database owner.

```
                    * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUL0  R-5.1
REPORT: T/DIS-CES USAGE SELECTION                 RUN DATE: 10/01/93 14:50:37
STUDY AREA: MO                                    PAGE:        18
CONTROL DATE: 08/08/92

                  DATA BASE OWNER ERROR FREQUENCY REPORT

                              USAGE IGNORED

  DBO    FREQ    DBO    FREQ    DBO    FREQ    DBO    FREQ    DBO    FREQ
  ==== ======    ==== ======    ==== ======    ==== ======    ==== ======
  IX--     36    SW     8155    SW--   2276

             NO PL/I ERRORS ENCOUNTERED DURING PROCESSING.



                          PROPRIETARY
                BELLCORE AND AUTHORIZED CLIENTS ONLY
```

Figure 3-23. Usage Load Report: Database Owner Error Frequency Report

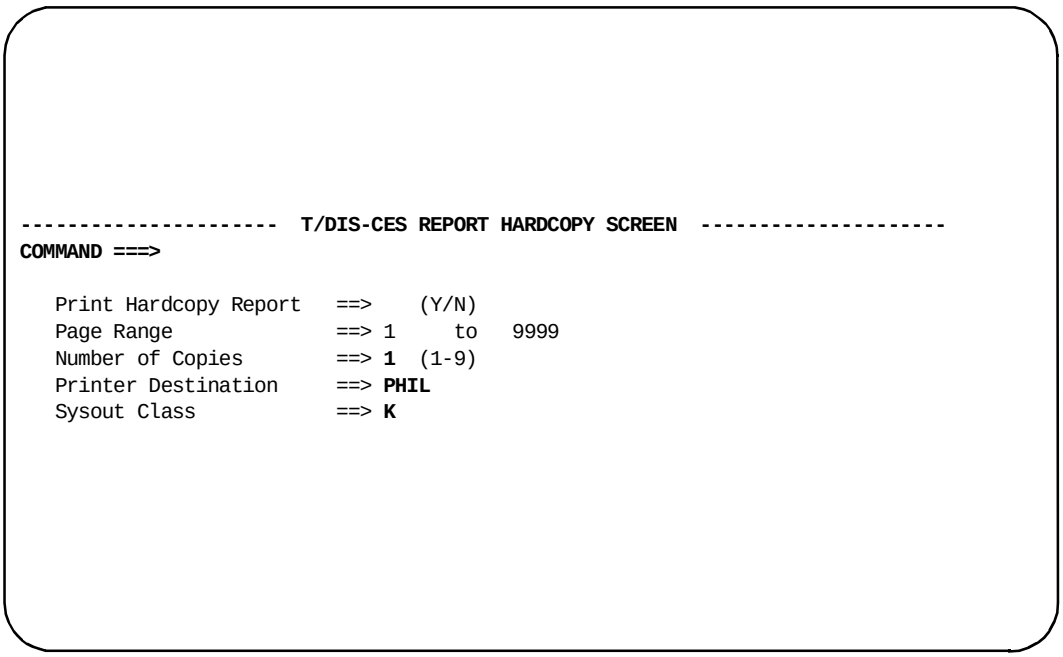


Figure 3-24. Report Hardcopy Screen

3.3 Usage Reports

The YDUC0 program creates three unique usage reports. It is anticipated that comparing usage reports from two consecutive months will be useful in pinpointing the causes of usage shifts. The reports are as follows:

- Usage by Category/ECN/Class Code
- Usage Sorted by Class Code and ECN
- Usage Ratios by Category/ECN/Class Code.

3.3.1 Developing Usage Reports

Use either of the following methods to develop the Usage Reports:

- From the TDIS-CES Main Menu, enter **UC** in the Option field.
- From any TDIS-CES screen, enter **=UC** in the Command field.

TDIS-CES will begin creating the reports. As the reports are created, messages will be displayed in the upper-right corner of the main panel saying ‘‘CREATING REPORT 1,’’ ‘‘CREATING REPORT 2,’’ and ‘‘CREATING REPORT 3.’’ When the reports have been created, the file containing the reports will be displayed. In addition, the reports are saved and can be browsed with the Main Menu browse function (uc suboption). (You can directly access this option by typing **b.uc** at the command line of the Main Menu.)

> **NOTE —** If one of the category tables is updated, you must re-execute the main panel **uc** function to update the reports. If usage is changed in the usage table, reload the usage and re-execute the uc option.

When you exit the report file, you will exit to the Report Hardcopy Screen (Figure 3-24).

.

```
BROWSE -- TDISD.MO.YDCUC0R ------------------------ LINE 00000000 COL 001 080
COMMAND ===>                                                SCROLL ===> CSR
******************************** TOP OF DATA *********************************

                        * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                                 PROGRAM: YDCUC0  R-5.1
REPORT: T/DIS-CES USAGE BY CATEGORY/ECN/CLASS CODE   RUN DATE: 10/12/93 10:08:21
STUDY AREA: MO                                       PAGE:         1
T/DIS DATE: 08/08/92                                 USAGE LOAD: 10/08/93
CLASS CODE TO CATEGORY UPDATED ON : 09/21/93
 CATEGORY  ECN  TD    CC          COUNT
========== ===  ===  ====       ========

4.CXR      804       XA              16
                                 -------
                                     16

           808       DX           5,784
                     HD               4
                     HF              12
                     HG               2
                     LC              56
                     XA          36,579
                     XF              88
```

Figure 3-25. Beginning of TDIS-CES Usage by Category/ECN/Class Code Report

```
BROWSE -- TDISD.MO.YDCUC0R ------------------------ LINE 00002297 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
                      * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUC0  R-5.1
REPORT: USAGE SORTED BY CLASS CODE AND ECN        RUN DATE: 10/12/93 10:08:21
STUDY AREA: MO                                    PAGE:         1
T/DIS DATE: 08/08/92                              USAGE LOAD: 10/08/93
CLASS CODE TO CATEGORY UPDATED ON : 09/21/93
 CC   CATEGORY   ECN TD           COUNT
==== ==========  === ===        ========

AA   4.UNKNOWN   809                 10
                                 -------
                                     10  TOTAL AA

AADX 4.UNKNOWN   808                 27
                 808 T1              62
                 809 T1              14
                 814                 27
                                 -------
                                    130  TOTAL AADX

AAXA 4.UNKNOWN   808              3,362
                 808 T1          13,203
```

Figure 3-26. Beginning of TDIS-CES Usage Sorted by Class Code and ECN Report

```
BROWSE -- TDISD.MO.YDCUC0R ------------------------ LINE 00004413 COL 001 080
COMMAND ===>                                                SCROLL ===> CSR
                        * * * * D R P - T D I S * * * *
COMPANY: RELEASE 5.1                              PROGRAM: YDCUC0  R-5.1
REPORT: USAGE RATIOS SORTED BY ECN/CATEGORY/CC    RUN DATE: 10/12/93 10:08:21
STUDY AREA: MO                                    PAGE:         1
T/DIS DATE: 08/08/92                              USAGE LOAD: 10/08/93
CLASS CODE TO CATEGORY UPDATED ON : 09/21/93
ECN  TD    CATEGORY   CC          COUNT       RATIO
===  ===  ========== ====       ========    =========

804       4.CXR      XA              16     .0202276
          4.NRP      NA              16     .0202276
          4.NRP      SN              21     .0265487
          4.23IX     GS              39     .0493047
          4.23IX     IG              25     .0316056
          4.23IX     IW               4     .0050569
          4.23IX     MJ             660     .8343868
          4.23IX     SG               3     .0037927
          4.23IX     SW               5     .0063211
          4.23IX     ZA               2     .0025284
                                 -------
                                     791    TOTAL 804
```

Figure 3-27. Beginning of TDIS-CES Usage Ratios Sorted by Category/ECN/ Class Code Report

4. Investment and Usage Verification

This section discusses using the data verification screens in TDIS-CES. To verify data, you use the following screens:

1. Verify DRMA Investment screen
2. Match Usage and Investment screen

These screens are used only for displaying TDIS-CES data. The screens you use to analyze and adjust the data displayed on these screens are discussed in Section 5.

The Verify DRMA Investment screen displays the investment data TDIS-CES received from DRMA. Use the information provided on this screen to compare to the DR08 reports from DRMA.

The Match Usage and Investment screen displays the usage data TDIS-CES receives from the TIRKS System and the DRMA investment data for each location, ECN, and TD (if available). This screen identifies matched and mismatched usage and investment data.

4.1 Verify DRMA Investment Screen

The Verify DRMA Investment screen is used to verify DRMA investments. This screen displays investment data TDIS-CES received from DRMA. Use this screen to audit and verify original DRMA investments. You can

- display complete DRMA investments
- limit the DRMA investment data displayed by the values you enter in the selection fields
- verify DRMA investments summed to the FRC or ECN level.

You can enter data in every field on this screen. The codes displayed next to the Action and View/Prt Data fields are the only acceptable entries for those fields. These entries specify the action TDIS-CES should take and the data to perform the action on. The last line of this screen displays the total investment received from DRMA.

The data provided on this screen may not match the 841 reports from DRMA. When DRMA data is transferred to TDIS-CES, location codes are reduced to eight characters. If the abbreviated code matches another code, investments for both codes are summarized into one amount, causing a discrepancy in the DRMA 841 reports and the information contained in TDIS-CES. Another cause for discrepancies between the data contained on the DR08 reports and this screen is that the sorting method for each report is different. TDIS-CES data is sorted by alphabetic location; the DR08 report is sorted CLLI codes.

Mapping relationships you establish in the Location, ECN, FRC Mapping table redefine DRMA investments TDIS-CES uses for the study. You can see the results of this map in

the Analyze/Adjust Investment screens. Mapping results are not displayed in the Verify DRMA screen.

4.1.1 Accessing the Verify DRMA Screen

Use either of the following methods to access the Verify DRMA Investment screen:

- From the TDIS-CES Main Menu, enter **d** in the Option field.
- From any screen in TDIS-CES, enter **=d** in the Command field.

The Verify DRMA Investment screen is displayed (see Figure 4-1).

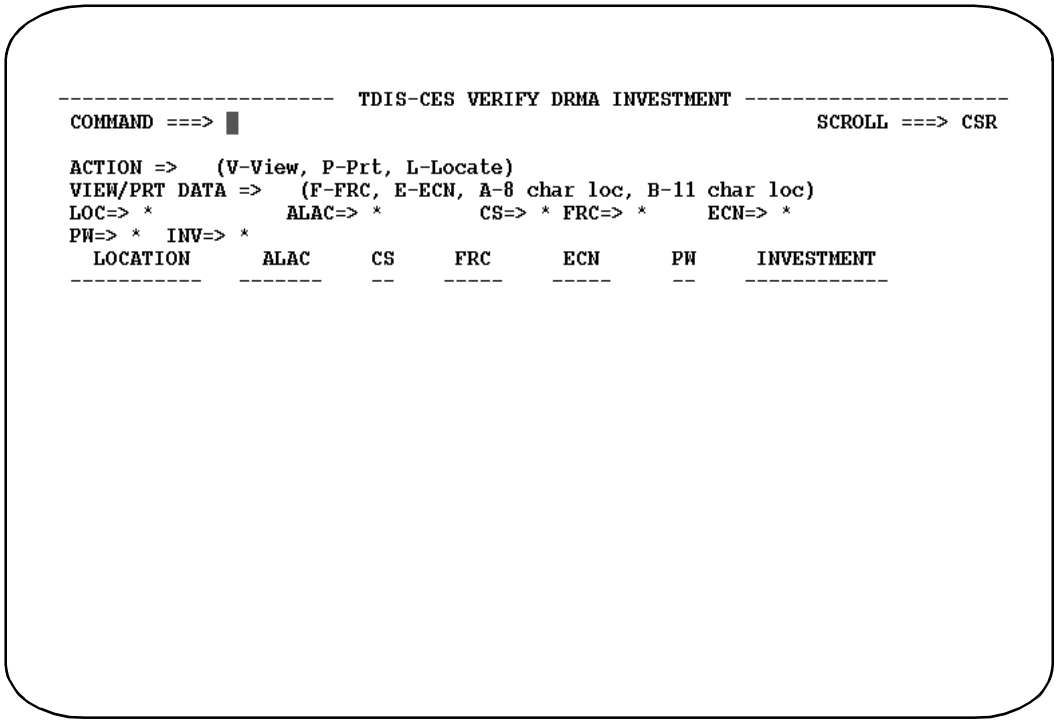


Figure 4-1. Verify DRMA Investment Screen

4.1.2 Verify DRMA Screen Field Definitions

Table 4-1 contains a description of each field on the Verify DRMA screen. You can use each of the fields contained on line five of this screen to limit the data displayed when you select ALL in the View/Prt Data field.

Table 4-1. Verify DRMA Screen Field Definitions

Field	Description
Action	This field tells TDIS-CES what to do. See Section 2.8 for a description of the Action field.
View/Prt Data	This field identifies the DRMA investment data you want to verify. Selecting FRC causes TDIS-CES to display investment data summarized to the study area ECN level only, populating the ECN and INV fields only. Selecting ALL causes TDIS-CES to populate every field on the screen. Select the code that corresponds to the data you want to display.
LOC	This 11-character field identifies the equipment location. See Section 2.8 for a definition of the LOC field. This field is blank when you select F or E in the View/Prt Data field.
ALAC	This 7-character location account code is blank when you select F, E, or A in the View/Prt Data field.
CS	This 1-character field displays a central stock indicator. It always contains a Y or N. Typing over the asterisk with one of those values causes TDIS-CES to display central stock that matches the value you specified. This field is blank when you select F or E in the View/Prt Data field.
FRC	This 5-character field identifies the Field Reporting Code. See Section 2.8 for a description of the FRC field. This field is blank when you select E in the View/Prt Data field.
ECN	This 5-character field identifies the Equipment Category Number. See Section 2.8 for a description of the ECN field. This field is blank when you select F in the View/Prt Data field.
PW	This field identifies a dedicated and common power or standard circuit investment. See Section 2.8 for a description of the PW field. This field always displays a Y or N. This field is blank when you select F or E in the View/Prt Data field.
INV	This 13-character field identifies the dollar investments associated with the remainder of the line. See Section 2.5 for a description of the investment field. You must specify a logical operator. Section 2.8 describes logical operators.

4.1.3 Displaying DRMA Investments by 8-Character Location

You can display DRMA investment data for every column provided on this screen. Each column shows elements of DRMA investment data. The data is summed by ALAC within the same location, CS, FRC, and ECN.

Follow the procedures below to display complete DRMA investment data:

1. Enter **v** or **p** in the Action field. Each action is described in Section 2.8.
2. Enter **a** in the View/Prt Data field.
3. Press the ENTER key.

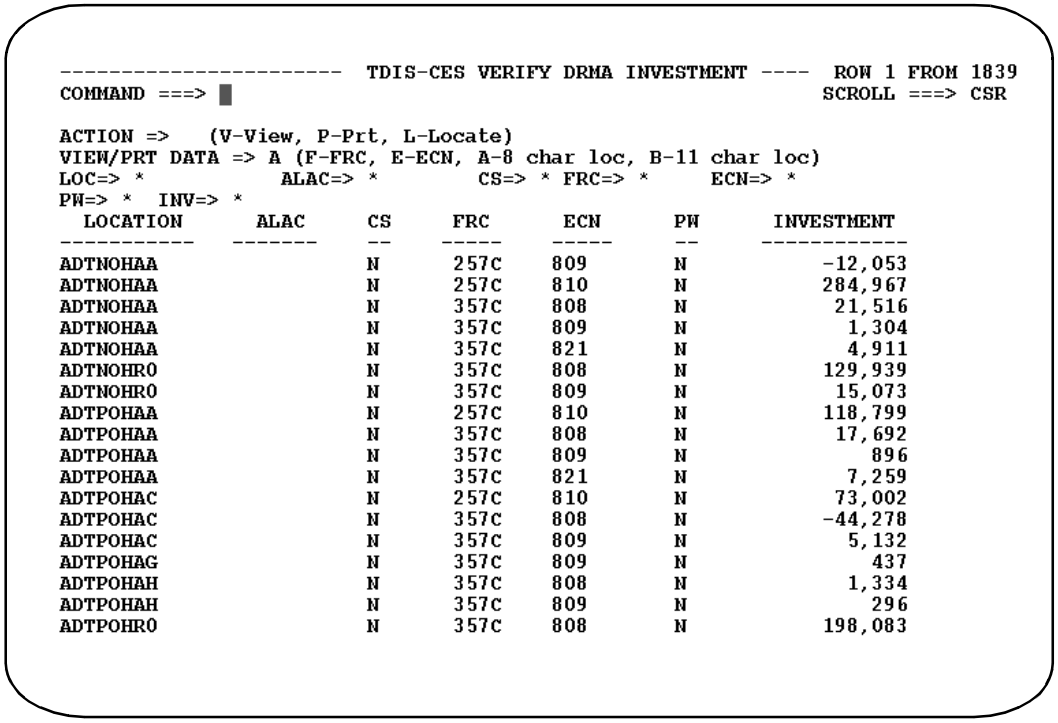
All DRMA investment data is displayed, sorted by location, CS, FRC, ECN, PW (see Figure 4-2). The ALAC field is blank in this display.

Type over the asterisks in any field to limit the investment data displayed. Investment data that matches the values you entered is displayed. For example, if you enter abc* in the LOC field, and Y in the CS field, only investment data for locations that begin with abc and have a central stock value of y are displayed. Figure 4-3 shows an example of a limited data display. Each field, except for the Action field, retains the value you enter after your selection is processed.

If no match is found, the first line reserved for data displays the following message:

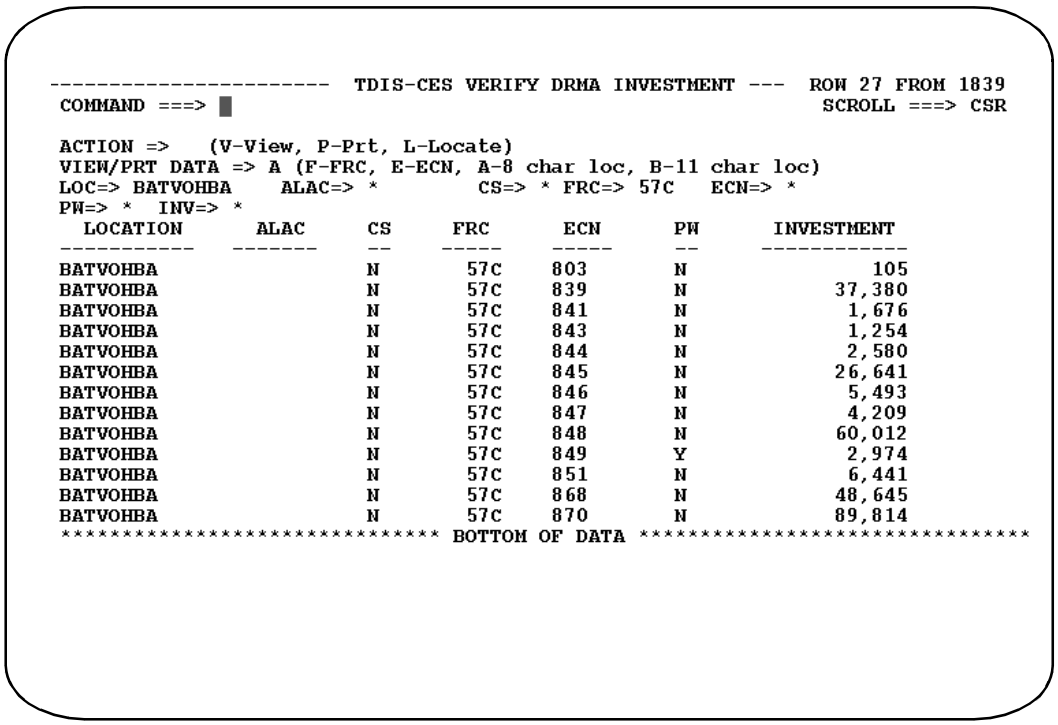
**********BOTTOM OF DATA**********

If you have specified **l** in the Action field, you locate specific investment data within the view established by the entering values in the fields containing asterisks.



```
------------------------  TDIS-CES VERIFY DRMA INVESTMENT ----  ROW 1 FROM 1839
COMMAND ===> _                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Locate)
VIEW/PRT DATA => A (F-FRC, E-ECN, A-8 char loc, B-11 char loc)
LOC=> *           ALAC=> *        CS=> * FRC=> *     ECN=> *
PW=> *  INV=> *
  LOCATION      ALAC     CS     FRC      ECN      PW      INVESTMENT
-----------   -------    --    -----    -----     --     ------------
ADTNOHAA                N      257C    809       N            -12,053
ADTNOHAA                N      257C    810       N            284,967
ADTNOHAA                N      357C    808       N             21,516
ADTNOHAA                N      357C    809       N              1,304
ADTNOHAA                N      357C    821       N              4,911
ADTNOHR0                N      357C    808       N            129,939
ADTNOHR0                N      357C    809       N             15,073
ADTPOHAA                N      257C    810       N            118,799
ADTPOHAA                N      357C    808       N             17,692
ADTPOHAA                N      357C    809       N                896
ADTPOHAA                N      357C    821       N              7,259
ADTPOHAC                N      257C    810       N             73,002
ADTPOHAC                N      357C    808       N            -44,278
ADTPOHAC                N      357C    809       N              5,132
ADTPOHAG                N      357C    809       N                437
ADTPOHAH                N      357C    808       N              1,334
ADTPOHAH                N      357C    809       N                296
ADTPOHR0                N      357C    808       N            198,083
```

Figure 4-2. Choosing ALL on the Verify DRMA Investment Screen by 8-Character Location



```
-----------------------  TDIS-CES VERIFY DRMA INVESTMENT ---  ROW 27 FROM 1839
COMMAND ===> _                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Locate)
VIEW/PRT DATA => A (F-FRC, E-ECN, A-8 char loc, B-11 char loc)
LOC=> BATVOHBA    ALAC=> *        CS=> * FRC=> 57C   ECN=> *
PW=> *  INV=> *
  LOCATION      ALAC     CS     FRC      ECN      PW      INVESTMENT
-----------   -------    --    -----    -----     --     ------------
BATVOHBA                N       57C    803       N               105
BATVOHBA                N       57C    839       N            37,380
BATVOHBA                N       57C    841       N             1,676
BATVOHBA                N       57C    843       N             1,254
BATVOHBA                N       57C    844       N             2,580
BATVOHBA                N       57C    845       N            26,641
BATVOHBA                N       57C    846       N             5,493
BATVOHBA                N       57C    847       N             4,209
BATVOHBA                N       57C    848       N            60,012
BATVOHBA                N       57C    849       Y             2,974
BATVOHBA                N       57C    851       N             6,441
BATVOHBA                N       57C    868       N            48,645
BATVOHBA                N       57C    870       N            89,814
******************************** BOTTOM OF DATA ********************************
```

Figure 4-3. Choosing ALL and Limiting Data on the Verify DRMA Investment Screen by 8-Character Location

4.1.4 Displaying DRMA Investments by 11-Character Location

You can display DRMA investment data for every column provided on this screen. Each column shows elements of DRMA investment data. The data is summed by ALAC within the same location, CS, FRC, and ECN.

Follow the procedures below to display complete DRMA investment data:

1. Enter **v** or **p** in the Action field. Each action is described in Section 2.8.
2. Enter **a** in the View/Prt Data field.
3. Press the ENTER key.

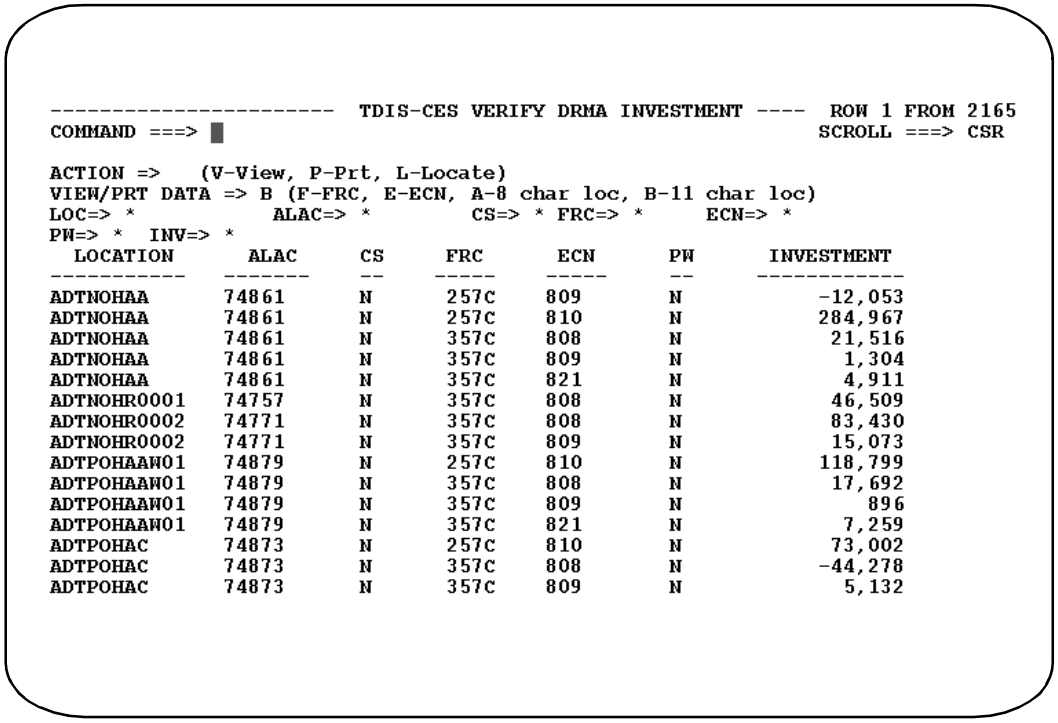
All DRMA investment data is displayed, sorted by location, ALAC, CS, FRC, ECN, PW (see Figure 4-2).

Type over the asterisks in any field to limit the investment data displayed. Investment data that matches the values you entered is displayed. For example, if you enter abc* in the LOC field, and 748* in the ALAC field, only investment data for locations that begin with abc and have an ALAC starting with 748 are displayed. Figure 4-5 shows an example of a limited data display. Each field, except for the Action field, retains the value you enter after your selection is processed.

If no match is found, the first line reserved for data displays the following message:

```
**********BOTTOM  OF  DATA**********
```

If you have specified **l** in the Action field, you locate specific investment data within the view established by the entering values in the fields containing asterisks.



```
------------------------  TDIS-CES VERIFY DRMA INVESTMENT ----  ROW 1 FROM 2165
COMMAND ===>                                                   SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Locate)
VIEW/PRT DATA => B (F-FRC, E-ECN, A-8 char loc, B-11 char loc)
LOC=> *           ALAC=> *        CS=> * FRC=> *     ECN=> *
PW=> *  INV=> *
  LOCATION      ALAC     CS     FRC      ECN      PW      INVESTMENT
-----------   -------    --    -----    -----     --     ------------
ADTNOHAA      74861      N      257C    809       N           -12,053
ADTNOHAA      74861      N      257C    810       N           284,967
ADTNOHAA      74861      N      357C    808       N            21,516
ADTNOHAA      74861      N      357C    809       N             1,304
ADTNOHAA      74861      N      357C    821       N             4,911
ADTNOHR0001   74757      N      357C    808       N            46,509
ADTNOHR0002   74771      N      357C    808       N            83,430
ADTNOHR0002   74771      N      357C    809       N            15,073
ADTPOHAAW01   74879      N      257C    810       N           118,799
ADTPOHAAW01   74879      N      357C    808       N            17,692
ADTPOHAAW01   74879      N      357C    809       N               896
ADTPOHAAW01   74879      N      357C    821       N             7,259
ADTPOHAC      74873      N      257C    810       N            73,002
ADTPOHAC      74873      N      357C    808       N           -44,278
ADTPOHAC      74873      N      357C    809       N             5,132
```

Figure 4-4. Choosing ALL on the Verify DRMA Investment Screen by 11-Character Location

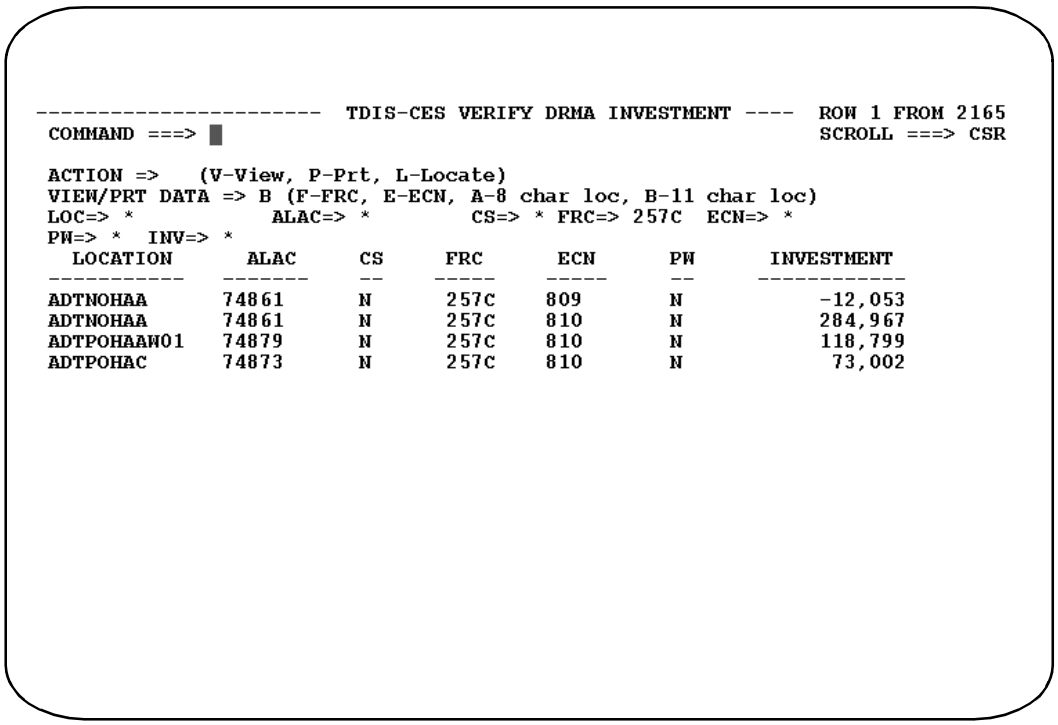


Figure 4-5. Choosing ALL and Limiting Data on the Verify DRMA Investment Screen by 11-Character Location

4.1.5 Displaying DRMA Investments by FRC

Displaying DRMA investments by FRC shows all FRCs contained in the DRMA data and the total investment associated with them. Only the columns containing FRC and investment data are populated. All other columns remain blank. Investments are summed for each FRC. For example, if three records exist with the same FRC, the investments for each record are added together and displayed for that FRC.

Follow the procedures below to display DRMA investments by FRC:

1. Enter **v**, **p**, or **l** in the Action field. Each action is described in Section 2.8.
2. Enter **f** in the View/Prt Data field.

   NOTE — You cannot specify delimiters when viewing by FRC.

3. Press ENTER.

The FRC and INV columns are populated with all FRCs and associated investment (Figure 4-6).

If you have chosen Locate, and TDIS-CES cannot find a match, an appropriate message is displayed. Press the HELP command to view a long error message that explains why the match was not found. If the locate was unsuccessful, the data is positioned where the record would appear, based on sort sequence.

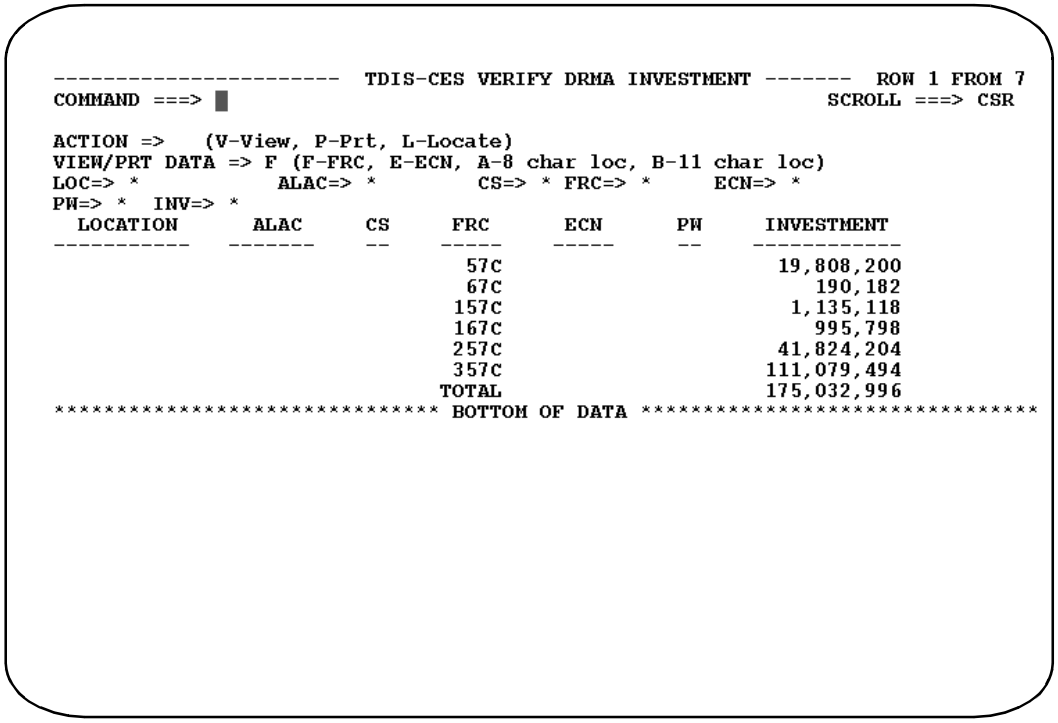


Figure 4-6. Choosing FRC on the Verify DRMA Investment Screen

4.1.6 Displaying DRMA Investments by ECN

Displaying DRMA investments by ECN shows all ECNs contained in the DRMA data and the total of all investments associated with them. Only the columns containing ECN and investment data are populated. All other columns remain blank. Investments are summed for each ECN. For example, if three records exist with the same ECN, the investments for each record are added together and displayed for that ECN.

Follow the procedures below to display DRMA investments by ECN:

1. Enter **v**, **p**, or **l** in the Action field. Each action is described in Section 2.8.
2. Enter **e** in the View/Prt Data field.

   NOTE — You cannot specify delimiters when viewing by ECN.

3. Press ENTER.

The ECN and INV columns are populated with all ECNs and associated investment (see Figure 4-7).

If you have chosen Locate, and TDIS-CES cannot find a match, an appropriate message is displayed. Press the HELP command to view a long error message that explains why the match was not found. If the locate was unsuccessful, the data is positioned at the record that most closely matches the value specified, based on sort sequence.

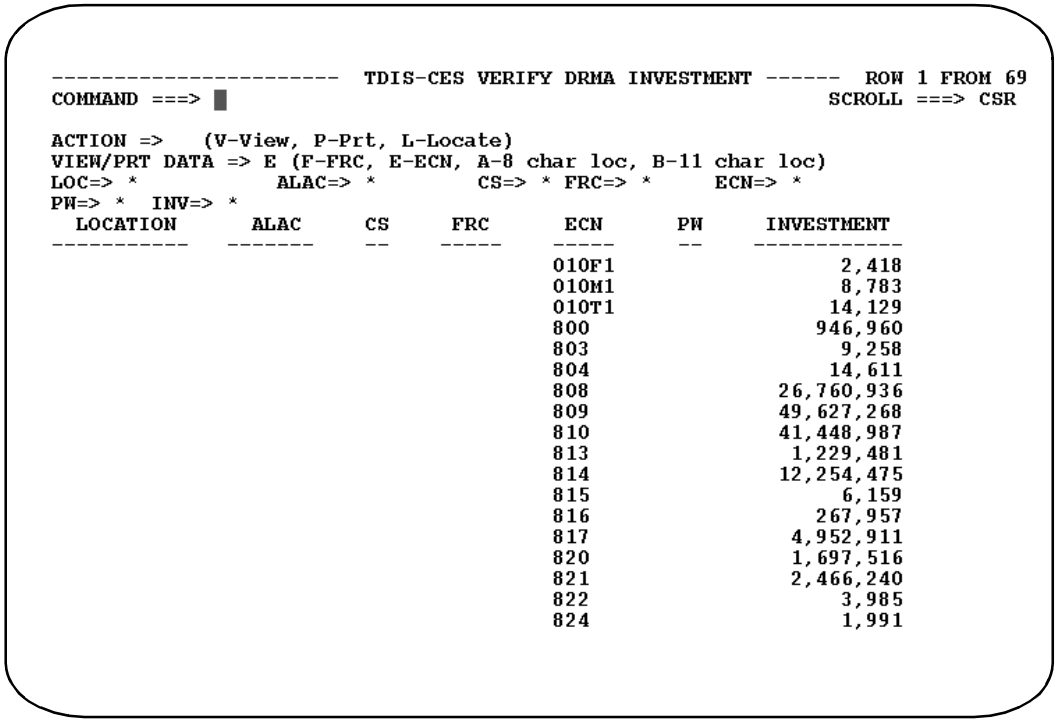


Figure 4-7. Choosing ECN on the Verify DRMA Investment Screen

4.1.7 Moving from the Verify DRMA Investment Screen

From the Verify DRMA Investment screen you can go to any TDIS-CES screen or the Main Menu.

- To go to another display or transaction screen, in the Action field type = and the corresponding code to your desired screen and press the ENTER key (for example, typing **=m** displays the Match Usage and Investment screen).
- To go to the Main Menu, press the END key.

4.2 Match Usage and Investment Screen

The Match Usage and Investment screen displays the usage and investment data TDIS-CES received from TDIS and DRMA. You use this screen to locate mismatched data in TDIS-CES.

Mismatches occur for a variety of reasons. Most often, mismatches occur because of a discrepancy in data for locations and ECNs in TDIS and locations in DRMA. A mismatch also occurs when DRMA overrides the master catalog ECN. Since TDIS and DRMA are driven by the same master catalog, an override in DRMA forces a mismatch because TDIS has no knowledge of the override. A mismatch may also result from the tables within TDIS that assigns ECNs for carrier line and carrier term. Examples of mismatches and some suggested resolutions are provided at the end of this section.

The key (that which makes each record in the match process unique) is composed of location, ECN, and TD. Within the match process, each record from the investment and usage tables are treated twice, aggregating once by the complete key (Location/ECN/TD) and a second time by ECN only (Location and TD set to blank). You specify which of these to display in the Aggregation Level field.

The TD is normally blank unless the following conditions have been met:

1. the technology weighting table has valid entries
2. the basic study has subsequently been executed successfully.

The match process prepares analyses of the investment and usage information both as it looked before the basic study was run and after the study was run. You specify which of these to display in the Version field. The TD is always blank in the pre-study data.

Based on the View/Prt Mode entry, the Match Usage and Investment screen displays:

- locations, ECN, and TD that show usage and no investment
- locations, ECN, and TD that show investment and no usage
- locations, ECN, and TD that show either usage without investment, or investments without usage.
- all usage and investment matches and mismatches for every location, ECN, and TD.

Once you have executed the study, investment and usage is matched at the Location, ECN, and TD level.

4.2.1 Accessing the Match Usage and Investment Screen

Use either of the following methods to access the Match Usage and Investment screen:

- From the TDIS-CES Main Menu, enter **m** in the Option field.
- From any screen in TDIS-CES, enter **=m** in the Command field.

The Match Usage and Investment screen is displayed (see Figure 4-8).

> **NOTE —** Depending on when you are accessing this screen, you may or may not cause the Status screen to display. If, when you accessed this table, TDIS-CES contains changes to tables that affect the accuracy of the data contained on this table since the last study run, a status screen is displayed after you have accessed this screen.
>
> This Status screen identifies tables with changes that affect this function only, and the action you should take to incorporate those changes into the data displayed on this screen. Section 10 provides more information about the Status screen.
>
> You should never enter the Match Usage and Investment function in more than one screen.

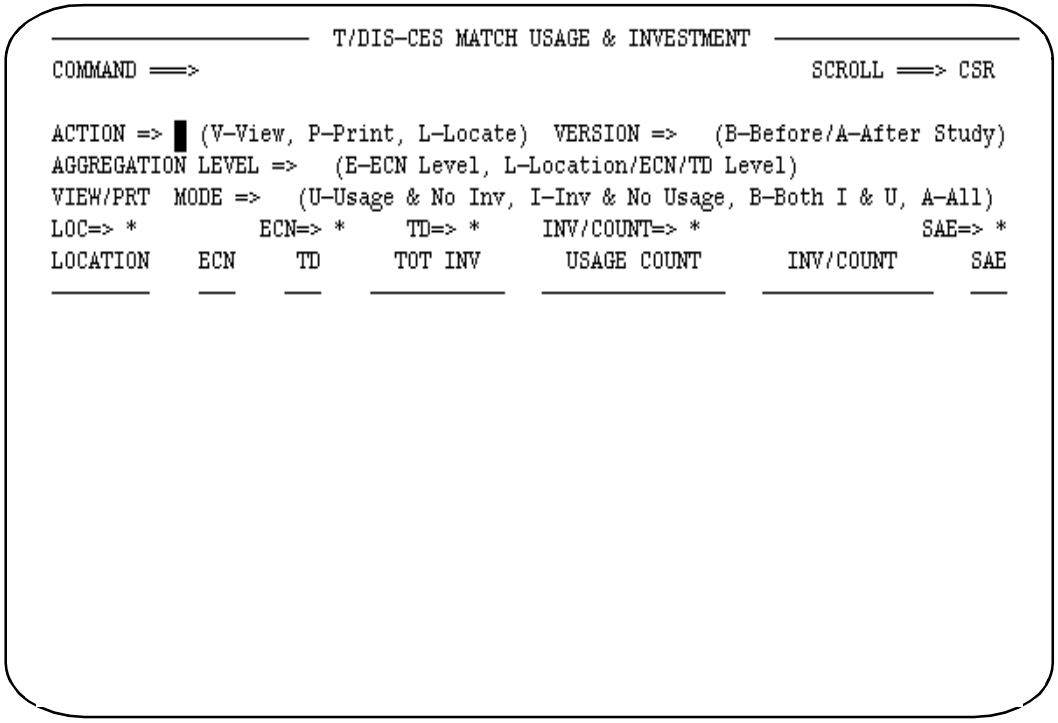


Figure 4-8. Match Usage and Investment Screen

Table 4-2 contains a description of each field on the Match Usage and Investment screen.

Table 4-2. Match Usage and Investment Screen Field Definitions

Field	Description
Action	This field tells TDIS-CES what to do. See Section 2.8 for a description of the Action field. The printout resulting from the Print action includes a list of user tables containing changes that affect the data associated with this function.
Version	This fields allows you to obtain different versions of the data. Selecting B obtains matches and mismatches existing prior to executing the study. Selecting A obtains matches and mismatches existing after executing the study.
Aggregation Level	The match process simultaneously aggregates investment dollars and usage counts at the ECN only (E) level and at the location/ECN/TD (L) level. This field selects which aggregation pattern you wish to view (E/L). **NOTE —** Technology descriptors appear only if they have been defined for locations/ECNs in the Technology Weighting table when the basic study was run and you are viewing the after study data (version=A). Central stock investment appears in the ECN only aggregation level but not in the location/ECN/TD level aggregation.
View/Prt Mode	This field identifies the type of data you want displayed. Select U to display locations and ECNs that show usage without investment mismatches; select I to display investments without usage mismatches; select B to display both mismatches; or select A to display all matches and mismatches.
LOC	This 8-character field identifies the equipment's location. See Section 2.2 for a definition of the LOC field.
ECN	This 3-character field identifies the Equipment Category Number. See Section 2.10 for a description of the ECN field. This 3-character field identifies the Technology Descriptor. If you have not executed a study or have not defined a Technology Weighting table, this field is blank.
INV/COUNT	To aid in the identification of investment or usage classification problems, the ratio of investment divided by count is computed. Very large or very small entries suggest a misclassification. The corresponding argument field is preceded by a relational operator to aid locating rations which are greater or less than reasonable limits. See Section 2.11 for more information on relational operators.

Table 4-2. Match Usage and Investment Screen Field Definitions (Continued)

Field	Description
SAE	This field allows you specify whether you want to display usage and investments for ECNs listed only on the Study Area ECN table. Entering **y** in this field causes TDIS-CES to display usage and investments for Study Area ECNs only; entering **n** causes TDIS-CES to display usage and investments for all other ECNs. Leave the asterisk to display both types of ECNs. The SAE column displays Y or N to indicate which type of ECN is displayed.
Total Investment	This field identifies the dollar investments for the values in the columns preceding this field. See Section 2.10 for a description of the investment field.
Usage Count	This field identifies the number of working subdivisions.

4.2.2 Displaying Usage Without Investment Mismatches

Follow the procedures below to display Locations and ECNs that show usage but have no corresponding investment value:

1. Enter **v**, **p**, or **l**, in the Action field. Each action is described in Section 2.8.
2. Enter **b** or **a** in the Version field.
3. Enter **e** or **l** in the Aggregation Level field.
4. Enter **u** in the View/Prt Mode field.
5. Press the ENTER key.

In Figure 4-9, the pre-study version of usage without investments is displayed for each location and ECN.

T/DIS-CES MATCH USAGE & INVESTMENT — ROW 48 OF 5324
COMMAND ===> SCROLL ===> CSR

ACTION => (V-View, P-Print, L-Locate) VERSION => B (B-Before/A-After Study)
AGGREGATION LEVEL => L (E-ECN Level, L-Location/ECN/TD Level)
VIEW/PRT MODE => U (U-Usage & No Inv, I-Inv & No Usage, B-Both I & U, A-All)
LOC=> * ECN=> * TD=> * INV/COUNT=> * SAE=> *

LOCATION	ECN	TD	TOT INV	USAGE COUNT	INV/COUNT	SAE
CITYSTAB	845		0	1.0000	0.00	N
CITYSTAH	808		0	2.0000	0.00	N
CITYSTAH	871		0	2.0000	0.00	N
CITYSTIA	808		0	5,520.0000	0.00	N
CITYSTIA	871		0	5,520.0000	0.00	N
CITYSTIJ	808		0	1,626.0000	0.00	N
CITYSTIJ	871		0	1,626.0000	0.00	N
CITYSTIK	808		0	144.0000	0.00	N
CITYSTIK	871		0	144.0000	0.00	N
CITYSTIL	808		0	333.0000	0.00	N
CITYSTIL	813		0	31.0000	0.00	N
CITYSTIL	814		0	31.0000	0.00	N
CITYSTIL	871		0	333.0000	0.00	N
CITYSTIL	845		0	43.0000	0.00	N

Figure 4-9. Displaying Usage Without Investment Mismatches

4.2.3 Displaying Investment Without Usage Mismatches

Follow the procedures below to display locations and ECNs that show investments but have no corresponding usage value:

1. Enter **v**, **p**, or **l**, in the Action field. Each action is described in Section 2.8
2. Enter **b** or **a** in the Version field.
3. Enter **e** or **l** in the Aggregation Level field.
4. Enter **i** in the View/Prt Mode field.
5. Press the ENTER key.

In Figure 4-10, the pre-study version of investments without usage is displayed for each location and ECN.

```
T/DIS-CES MATCH USAGE & INVESTMENT  ——  ROW 39 OF 5324
COMMAND ===>                                    SCROLL ===> CSR

ACTION => ▌ (V-View, P-Print, L-Locate)  VERSION => B (B-Before/A-After Study)
AGGREGATION LEVEL => L (E-ECN Level, L-Location/ECN/TD Level)
VIEW/PRT  MODE => I (U-Usage & No Inv, I-Inv & No Usage, B-Both I & U, A-All)
LOC=> *          ECN=> *     TD=> *     INV/COUNT=> *                SAE=> *
```

LOCATION	ECN	TD	TOT INV	USAGE COUNT	INV/COUNT	SAE
CITYSTR2	808		3,624,580	0.0000	0.00	N
CITYSTR2	809		200,024	0.0000	0.00	N
CITYST79	804		38,969	0.0000	0.00	N
CITYST79	810		1,913,474	0.0000	0.00	N
CITYST79	834		77	0.0000	0.00	N
CITYST79	842		1,356	0.0000	0.00	N
CITYST79	843		1,579	0.0000	0.00	N
CITYST79	846		1,825	0.0000	0.00	N
CITYST79	848		28,994	0.0000	0.00	N
CITYST79	851		2,795	0.0000	0.00	N
CITYST79	853		1,927	0.0000	0.00	N
CITYST79	870		52,963	0.0000	0.00	N
CITYST80	804		2,327	0.0000	0.00	N
CITYST80	808		10,459	0.0000	0.00	N

Figure 4-10. Displaying Investment Without Usage Mismatches

4.2.4 Displaying Both Mismatches

Follow the procedures below to display both types of mismatches:

1. Enter **v**, **p**, or **l**, in the Action field. Each action is described in Section 2.8
2. Enter **b** or **a** in the Version field.
3. Enter **e** or **l** in the Aggregation Level field.
4. Enter **b** in the View/Prt Mode field.
5. Press the ENTER key.

In Figure 4-11, the post-study version of mismatched usage and investments summed to the ECN level is displayed.

```
-------------------- T/DIS-CES MATCH USAGE & INVESTMENT ---- ROW 1 OF 2774
COMMAND ===>                                                  SCROLL ===> CSR

ACTION => █ (V-View, P-Print, L-Locate)  VERSION => A (B-Before/A-After Study)
AGGREGATION LEVEL => E (E-ECN Level, L-Location/ECN/TD Level)
VIEW/PRT  MODE => B (U-Usage & No Inv, I-Inv & No Usage, B-Both I & U, A-All)
LOC=> *         ECN=> *     TD=> *     INV/COUNT=> *                 SAE=> *
LOCATION     ECN     TD       TOT INV       USAGE COUNT       INV/COUNT      SAE
--------     ---    ---    ----------    -------------    -------------     ---
             802                     0       1,197.0000             0.00      Y
             812                 8,619           0.0000             0.00      N
             840                     0          47.0000             0.00      N
             852                     0           3.0000             0.00      N
             858                     0           1.0000             0.00      N
             871                     0     124,853.0000             0.00      N
***************************** BOTTOM OF DATA *******************************
```

Figure 4-11. Displaying Both Mismatches

4.2.5 Displaying All Usage and Investment Data

Follow the procedures below to display all investments for each location:

1. Enter **v** or **p** in the Action field. Each action is described in Section 2.8.
2. Enter **b** or **a** in the Version field.
3. Enter **e** or **l** in the Aggregation Level field.
4. Enter **a** in the View/Prt Mode field.
5. Optionally, enter values in the fields containing asterisks to display specific mismatches.
6. Press the ENTER key.

In Figure 4-12, the post-study version of all usage and investments summed to the ECN level is displayed.

T/DIS-CES MATCH USAGE & INVESTMENT —— ROW 1 OF 2774
COMMAND ===> SCROLL ===> CSR

ACTION => (V-View, P-Print, L-Locate) VERSION => A (B-Before/A-After Study)
AGGREGATION LEVEL => E (E-ECN Level, L-Location/ECN/TD Level)
VIEW/PRT MODE => A (U-Usage & No Inv, I-Inv & No Usage, B-Both I & U, A-All)
LOC=> * ECN=> * TD=> * INV/COUNT=> * SAE=> *

LOCATION	ECN	TD	TOT INV	USAGE COUNT	INV/COUNT	SAE
	802		0	1,197.0000	0.00	Y
	804		4,274,377	54.0000	79,155.12	N
	808		122,330,949	789,740.0000	154.90	N
	809		208,610,059	589,621.0000	353.80	N
	810		136,400,380	1,000.0000	136,400.38	N
	812		8,619	0.0000	0.00	N
	813		2,771,163	20,001.0000	138.55	N
	814		24,317,438	30,971.0000	785.16	N
	824		677,745	54.0000	12,550.83	N
	826		1,961,329	3,164.0000	619.88	N
	829		4,287,597	8,748.0000	490.12	N
	834		20,588,837	12,204.0000	1,687.05	N
	837		212,995	543.0000	392.25	N
	840		0	47.0000	0.00	N

Figure 4-12. Displaying All Usage and Investment Data

4.2.6 Selected Data View and Locate

To display a partial view of investment, enter **v** in the Action field. Each action is described in Section 2.8.

Data that matches the values you entered is displayed. For example, if you enter abc* in the LOC field, and 809 in the ECN field, only data for locations beginning with abc and with and ECN of 809 are displayed.

If no match is found, the first line reserved for data displays the following message:

```
**********BOTTOM  OF  DATA**********
```

To perform the Locate action in investment, enter **l** in the Action field. Each action is described in Section 2.8. You locate specific data within the view established by the values you enter in the fields containing the asterisks. Figure 4-13 shows an example of a Locate display. In Figure 4-13, the post-study version of all usage and investments were located for location cityst79, ECN 809.

Each field retains the value you enter after your selection is processed, except the entry you made in the Action field.

If no match is found, the first line of data represents the record that is the closest match to your request.

```
                    T/DIS-CES MATCH USAGE & INVESTMENT  ——  ROW 40 OF 2774
COMMAND ===>                                                SCROLL ===> CSR

ACTION => ▌ (V-View, P-Print, L-Locate)  VERSION => A (B-Before/A-After Study)
AGGREGATION LEVEL => L (E-ECN Level, L-Location/ECN/TD Level)
VIEW/PRT  MODE => A (U-Usage & No Inv, I-Inv & No Usage, B-Both I & U, A-All)
LOC=> CITYST79  ECN=> 809   TD=> *     INV/COUNT=> *                  SAE=> *
```

LOCATION	ECN	TD	TOT INV	USAGE COUNT	INV/COUNT	SAE
CITYST79	809	T1	40,948	150.0000	272.98	N
CITYST79	845		0	1.0000	0.00	N
CITYST79	853		1,927	0.0000	0.00	N
CITYST79	868		12,880	4.0000	3,220.00	N
CITYST80	808		0	2.0000	0.00	N
CITYST80	871		0	2.0000	0.00	N
CITYST80	854		19,231	0.0000	0.00	N
CITYST80	855		7,968	0.0000	0.00	N
CITYST80	876		36,508	0.0000	0.00	N
CITYST80	893		12,480	0.0000	0.00	N
CITYST92	808		0	5,520.0000	0.00	N
CITYST92	871		0	5,520.0000	0.00	N
CITYST93	808		0	1,626.0000	0.00	N
CITYST93	871		0	1,626.0000	0.00	N

Figure 4-13. Displaying Limited Usage and Investment Data

4.2.7 Moving from the Match Usage and Investment Screen

From the Match Usage and Investment screen you can go to any TDIS-CES screen or the Main Menu.

- To go to another display or transaction screen, in the Action field type = and the corresponding code to your desired screen, and press the ENTER key (for example, typing **=d** displays the Verify DRMA Investment screen).
- To go the TDIS-CES Main Menu, press the RETURN key.

4.2.8 Mismatch Examples and Suggested Resolutions

There are a number of ways to resolve mismatches. The method you choose depends on the type of mismatch. Listed below are some examples of mismatches with suggested resolutions:

1. You may elect to ignore mismatches and let the Basic Study program spread the investment.
2. You can use the Location, ECN, FRC Mapping table to resolve certain kinds of mismatches.

   For example, repeater stations may come from DRMA without a corresponding usage from TDIS. You can establish a map that changes the repeater location to the powering central office. The investment is combined with the powering central office investment that shows usage to eliminate the mismatch.
3. You can reset usage values with the Analyze/Adjust screen to force the investments to spread.
4. You can identify the mismatched ECN on the Study Area ECN table to combine usage and investments. Do this where there is sufficient usage to support the investment.
5. You can identify those cases where minor amounts of usage affect the study. By using the INV/COUNT field with a logical operator, you can search for cases that have an extraordinary cost per unit.

   For example, if you search for an investment amount of 71,000,000 and find data, this is most likely an error condition, since the volume of usage is low. It could possibly be a real situation where only one or two working units are controlling the investment. To resolve this, you could set the usage amount to zero and force the investment to spread to other locations where there is a more representative usage profile to distribute the investment. You might also consider placing this ECN on the Study Area ECN table so that all usage and investment are combined. If this were the only usage in the study area, then you could use supplemental usage, which is representative of actual usage not recorded in the TIRKS System. An example of this loop carrier. In most cases the usage from the TIRKS System will be low or non-existent, therefore the addition of supplemental usage to resolve the mismatch is correct.

4.2.9 End of Process Report

In some cases, entries will exist in the match with no investment *and* no usage. For example, a location/ECN/TD combination in the investment table has zero investment and does not appear in the usage table at all. Such cases are common after the basic study has been run because all investment may have been allocated elsewhere. A more uncommon case in the pre-study data may indicate potential data problems. At the end of the match process, a report is displayed on the screen (which you have the option to print) showing such instances in the pre-study data only. Because no analysis can be performed on these records, they do not appear elsewhere in the match process.

5. Analysis and Adjustments

This section tells you how to use the screens that analyze and adjust investment and usage data.

Use the following screens to analyze and adjust data:

1. Analyze/Adjust Investment Screens - allow you to analyze and adjust investment data
2. Analyze/Adjust Usage Screen - allows you to analyze and adjust usage data.

Usage and investment tables cannot be updated (added, changed, or deleted) by more than one person. TDIS-CES prevents simultaneous updates. If usage or investment data is being loaded, the respective usage or investment update is unsuccessful. No investment or usage data can be loaded, and no updates on that table can be performed in another TDIS-CES session if you have not completed your current update session.

The Analyze/Adjust Investment screens provide more detailed investment information. In addition to obtaining a detailed investment analysis, you use these screens to make adjustments to the investment data and view the spreads that occur during a study run.

The Analyze/Adjust Usage screen provides detailed usage information. In addition to obtaining a detailed usage analysis, you use this screen to make adjustments to the usage data.

5.1 Analyze/Adjust Investment Screens

There are two version of investment data:

- Pre-study - shows a detailed investment analysis prior to the study run.
- Post-study - shows how TDIS-CES has spread the investment data.

Use the pre-study version to perform the following functions:

- Analyze investment data
- Edit investment records
- View investment data prior to a study run.

Screen descriptions are provided in the following subsections. Editing procedures are provided with each screen description. Updates are saved when you use the END command. Use the END command periodically throughout an editing session to avoid data loss.

Use the post-study version to view how the investments were spread.

Listed below are the four types of tables that contain pre and post basic study investment data:

1. Base Investment
2. Central Stock Investment
3. ECN800 Investment
4. Power Investment

> **NOTE —** Each table can be viewed with or without subtotals.

Tables are exclusive; each record appears on only one table, in the following hierarchy:

- Power
- Central Stock
- ECN 800
- Base

After you execute the basic study, the information contained on the ECN800 and Central Stock tables is spread onto the Base table. Investment data contained on the Power table is applied at the end of the study, and is included on the Verify Study Results table.

After you run the study, the 800 ECN investment and central stock investment that was spread is zero in the respective post-study total investment column, and contain a corresponding post-study spread amount in the post-study base table.

Any record with a non-zero value in the Total field in the post-study 800 ECN or Central Stock table indicates that the basic study program ignored the investment. When the investment is ignored you must take some action, via adjustment or table changes to include the investment and bring the study into balance.

5.1.1 Accessing the Analyze/Adjust Investment Screen

Use either of the following methods to access the Analyze/Adjust Investment screen:

- From the TDIS-CES Main Menu, enter **I** in the Option field.
- From any screen in TDIS-CES, enter **=I** in the Command field.

The Analyze/Adjust Investment screen is displayed (see Figure 5-1). This screen is provided to access the screens that contain the investments.

> **NOTE —** Depending on when you are accessing this screen, you may or may not cause the Status screen to

display. If, when you accessed this table, TDIS-CES contains changes to tables that affect the accuracy of the data contained on this table since the last study run, a status screen is displayed after you have accessed this screen.

This Status screen identifies tables with changes that affect this function only, and the action you should take to incorporate those changes into the data displayed on this screen. Section 10 provides more information about the Status screen.

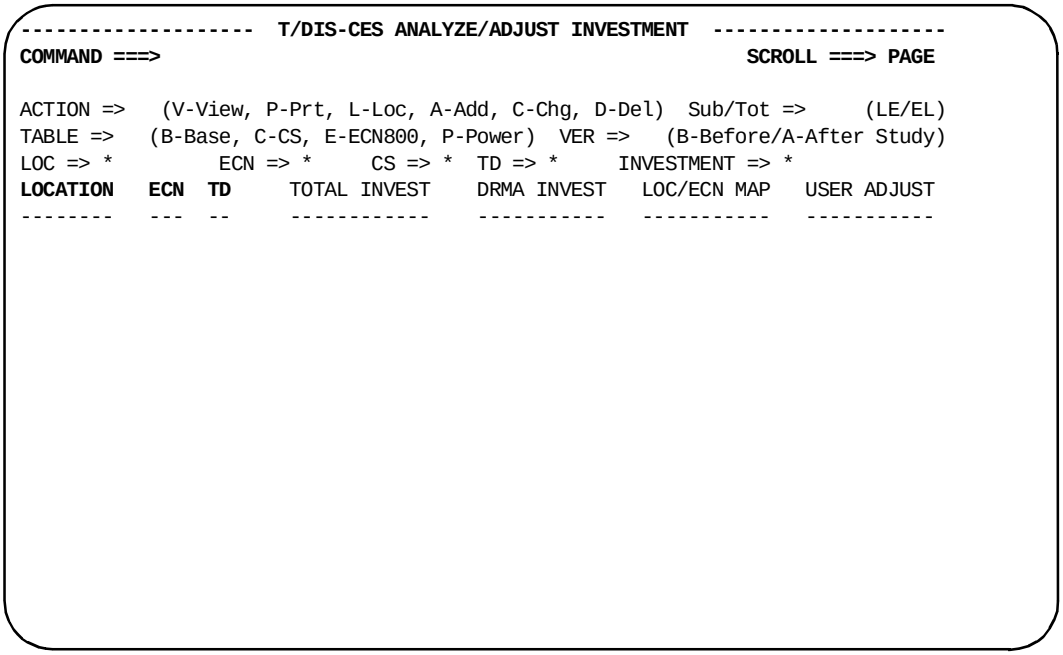


Figure 5-1. Analyze/Adjust Investment Screen

5.1.2 Analyze/Adjust Screen Field Definitions

The first six lines on each investment screen contain the same fields. The information displayed on each screen varies. Table 5-1 contains a description for each of the fields on line seven.

Table 5-1. Analyze/Adjust Investment Screen Field Definitions

Field	Description
Title	Line one identifies the type of investment data contained on the screen.

Table 5-1. Analyze/Adjust Investment Screen Field Definitions (Continued)

Field	Description
ACTION	This field tells TDIS-CES what to do. See Section 2.8 for a description of the Action field. The printout resulting from the Print action includes a list of user tables containing changes that affect the data associated with this function.
Sub/Tot	This field is used for displaying subtotals and a grand total line on the display. Valid entries are **LE**, **EL**, or a blank. **Blank** No totals are displayed. **LE** Subtotals for ECNs within a location aredisplayed. **EL** Subtotals for locations within an ECN are displayed. Subtotals are identified by the word "**SUB**" on the appropriate line. When you add, change, or delete investment data, the subtotals fields will be automatically updated.
TABLE	The field identifies the four tables that contain investment information. Select the code that corresponds to the table you want to access.
VER	Identifies the version of the table to be accessed before or after study.
LOC, ECN, CS, TD, INVESTMENT	These fields are enterable fields on line six. You use them when you are adding, changing, or deleting investment data. You do not use all of these fields on each investment screen. You can use them to limit the data displayed when you are viewing investment data. Field definitions are provided in Section 2.10. On line seven these are column headings that identify the data displayed beneath them. Use a logical operator when specifying an investment value. When editing a record, specify the equal sign as your logical operator in the Investment field. See Section 2.11 for a description of logical operators. The highlighted fields that are present on many of the screens within TDIS-CES represent fields that uniquely identify a record. These fields cannot be duplicated. They are also the fields TDIS-CES uses to sort the data and establish a view. On the Analyze/Adjust Base and Central Stock Investment tables, the ECN value can be 801 through 898, excluding 849. On the ECN 800 table, the only acceptable value is 800.
TOTAL INVEST	This field identifies the total investment for location and ECN. The values in the fields following this field add up to this value.

Table 5-1. Analyze/Adjust Investment Screen Field Definitions (Continued)

Field	Description
DRMA INVEST	The value in this field identifies the investments DRMA shows for the key.
LOC/ECN MAP	The value in this field identifies the results of the application of the mapping table. (See Section 7 for a description of the Location/ECN Mapping table.)
USER ADJUST	The value in this field identifies any adjustments you have made to the investments displayed on the screen.
800 SPREAD	The value in this field identifies 800 investments that were spread to that location and ECN resulting from the study run. This field is visible only when you scroll right or left on the post-study base table.
NO USAGE	The value in this field identifies the investment amount spread from locations that had no usage in the corresponding ECN. The value in this field results from the study run. This field is visible only when you scroll right or left on the post-study base table.
ECN SPLIT	The value in this field identifies the investments that were moved based on the technology descriptors and weighting factors you defined in the Technology Weighting table. (See Section 7 for a description of the Technology Weighting table) This field is visible only when you scroll right or left on the post-study base table.
NO VALID CAT	This field appears only on the post-study version of the Power screen. The value in this field shows how much power investment was moved (within the same ECN) to a location with corresponding valid separation categories.

5.1.3 Analyze/Adjust Base Investment Screen

This screen contains circuit equipment investment data received from DRMA, and any location ECN mapping relationships applied during the investment load. Any adjustments you make to the base investments are included on this screen. After you have executed the study, the post-basic study version of this screen shows how the ECN 800 and Central Stock investments have been spread and how the technology split was performed.

Investments that have been spread are provided in three fields on the far right of the screen: 800 Spread, No Usage, and ECN Split. These fields are not visible when the screen is initially displayed, and contain investments only after you have executed the study. Use the RIGHT command to view investments contained in these fields.

You can adjust pre-study base investments by selecting add, change, or delete in the Action field.

5.1.3.1 Accessing the Analyze/Adjust Base Investment Screen

You can access the Analyze/Adjust Base Investment screen from any of the Analyze/ Adjust Investment screens. To display all of the current base investments:

1. Enter **v** in the Action field and enter **b** in the Table field provided on each investment screen.
2. Specify the version in the Ver field.
3. Specify whether you want to display subtotals in the Sub/Tot field.
4. Press the ENTER key.

The Analyze/Adjust Base Investment screen is displayed. Figure 5-2 shows the basic screen with no Sub/Tot specified.

```
----------------  T/DIS-CES ANALYZE POST-STUDY BASE INVESTMENT  ROW 1 FROM 446
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot =>     (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => A (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION   ECN  TD     TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------   ---  --     ------------    -----------   -----------   -----------
ALXNKYAA   808               19,435         19,435             0             0
ALXNKYAA   809               29,742              0        29,742             0
ALXNKYAA   810                    0      1,138,783             0             0
ALXNKYAA   817                    0         29,742       -29,742             0
ALXNKYAL   808              190,297        185,335         4,962             0
ALXNKYAL   809              414,945        328,317        86,628             0
ALXNKYAL   810                    0        549,246       108,584             0
ALXNKYAL   817                    0         35,210       -35,210             0
ALXNKYAL   820                    0         14,094       -14,094             0
ALXNKYAL   838               85,101         85,101             0             0
ALXNKYAL   839                    0         33,038       -33,038             0
ALXNKYAL   841                8,430          8,430             0             0
ALXNKYAL   843               10,968         10,968             0             0
ALXNKYAL   844                    0          4,757        -4,757             0
```

Figure 5-2. Analyze/Adjust Base Investment Screen

This screen scrolled right is shown in Figure 5-3.

```
----------------  T/DIS-CES ANALYZE POST-STUDY BASE INVESTMENT  ROW 1 FROM 446
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot =>     (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => A (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION   ECN  TD     TOTAL INVEST     800 SPREAD      NO USAGE     ECN SPLIT
--------   ---  --     ------------     ----------      --------     ---------
ALXNKYAA   808              19,435              0             0             0
ALXNKYAA   809              29,742              0             0             0
ALXNKYAA   810                   0              0    -1,138,783             0
ALXNKYAA   817                   0              0             0             0
ALXNKYAL   808             190,297              0             0             0
ALXNKYAL   809             414,945              0             0             0
ALXNKYAL   810                   0              0      -657,830             0
ALXNKYAL   817                   0              0             0             0
ALXNKYAL   820                   0              0             0             0
ALXNKYAL   838              85,101              0             0             0
ALXNKYAL   839                   0              0             0             0
ALXNKYAL   841               8,430              0             0             0
ALXNKYAL   843              10,968              0             0             0
ALXNKYAL   844                   0              0             0             0
```

Figure 5-3. Analyze/Adjust Base Investment Screen With RIGHT Command

NOTE — Remember, you can scroll the panel to the right only after you have executed a study.

Figure 5-4 shows the Analyze/Adjust Base Investment screen with the LE Sub/Tot specified.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY B  -  ROW 1 FROM 7133
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION  ECN  TD       TOTAL INVEST   DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --       ------------   -----------   -----------   -----------
ADRNMOAX  808                 7,615         7,615             0             0
ADRNMOAX  809                27,764        27,764             0             0
ADRNMOAX  811                51,789        51,789             0             0
ADRNMOAX  814                 3,288         3,288             0             0
ADRNMOAX  821                 8,496         8,496             0             0
ADRNMOAX  824                   880           880             0             0
ADRNMOAX  834                 8,862         8,862             0             0
ADRNMOAX  841                 1,495         1,495             0             0
ADRNMOAX  843                18,954        18,954             0             0
ADRNMOAX  844                   853           853             0             0
ADRNMOAX  868                17,741        17,741             0             0
ADRNMOAX  870                68,019        68,019             0             0
ADRNMOAX          SUB       215,756       215,756             0             0
ADVNMORA  804                 2,260         2,260             0             0
```

Figure 5-4. Analyze/Adjust Base Investment Screen With the LE Sub/Tot Specified

Figure 5-5 shows the Analyze/Adjust Base Investment screen with the EL Sub/Tot specified.

```
-------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY B  -  ROW 1 FROM 5978
COMMAND ===>                                                 SCROLL ===> HALF

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => EL  (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
ECN  TD   LOCATION      TOTAL INVEST   DRMA INVEST   LOC/ECN MAP   USER ADJUST
---  ---  --------      ------------   -----------   -----------   -----------
802       HNBLMOAC              60            60             0             0
802            SUB              60            60             0             0
803       DIXNMORS             943           943             0             0
803       FLRVMOGE             617           617             0             0
803       SGNVMOTU             544           544             0             0
803       SPFDMOTL             582           582             0             0
803            SUB           2,686         2,686             0             0
804       ADRNMOAX               0             0             0             0
804       ADVNMORA           2,260         2,260             0             0
804       AGNCMOAL           5,146         5,146             0             0
804       ALBYMORS          25,090        25,090             0             0
804       ARGYMOPA          18,394        18,394             0             0
804       BANGMORS          74,046        74,046             0             0
804       BLFDMOLO          40,753        40,753             0             0
```

Figure 5-5. Analyze/Adjust Base Investment Screen With the EL Sub/Tot Specified

NOTE — Notice that when you specify EL in the Sub/Tot field, the LOCATION, TD, and ECN fields in the report change position

5.1.3.2 Editing Base Investments

Options are provided on the Analyze/Adjust Base Investment screen that allow you to edit base investment records. To edit base investment records, follow the procedures below:

1. Enter the code that corresponds to the action you want to take in the Action field.
2. Enter **b** in the Table field. The B remains displayed in this field as long as you are working on the Analyze/Adjust Base Investment screen.
3. Enter **b** in the Ver field.
4. Enter values in the following fields (all other fields should be blank or contain an asterisk):
   - LOC - specify the location you are adding.
   - ECN - specify the ECN you are adding.
   - INVESTMENT - If you selected *add*, enter = and specify the amount you want to associate with the location and ECN.
     If you selected *change*, enter = and specify the amount you want to associate with the location and ECN.

     If you selected *delete*, leave this field blank.
5. Press the ENTER key.

The record is processed and becomes the first line of data displayed on your screen. A successful update message is displayed in the upper right corner of the screen. If TDIS-CES was unable to process your request, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

Values you enter when editing a record are retained after TDIS-CES has finished processing your request, except the entry you made in the Action field. If you switch to a different Analyze/Adjust Investment table, the values are transferred to the input fields.

If you have added a record, the investment amount appears in the Total Invest and User Adjust fields. Figure 5-6 is an example of a base investment record that has been successfully added.

> **NOTE —** You can update data while viewing subtotals. As you add, change, or delete data, the subtotals will automatically update.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST          SUCCESSFUL ADD
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => ADRNMOAX  ECN => 807   CS => *  TD => *     INVESTMENT => = 6700
LOCATION  ECN  TD       TOTAL INVEST   DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --       ------------   -----------   -----------   -----------
ADRNMOAX  807                 6,700             0             0         6,700
ADRNMOAX  808                 7,615         7,615             0             0
ADRNMOAX  809                27,764        27,764             0             0
ADRNMOAX  811                51,789        51,789             0             0
ADRNMOAX  814                 3,288         3,288             0             0
ADRNMOAX  821                 8,496         8,496             0             0
ADRNMOAX  824                   880           880             0             0
ADRNMOAX  834                 8,862         8,862             0             0
ADRNMOAX  841                 1,495         1,495             0             0
ADRNMOAX  843                18,954        18,954             0             0
ADRNMOAX  844                   853           853             0             0
ADRNMOAX  868                17,741        17,741             0             0
ADRNMOAX  870                68,019        68,019             0             0
ADRNMOAX          SUB       222,456       215,756             0         6,700
```

Figure 5-6. Adding Base Investments

If you have changed a record, the amount that you entered in the Investment field appears in the Total Invest column. The DRMA invest column is unchanged. The amount the old total was decreased or increased is displayed in the User Adjust field. If you have decreased the total, a minus sign (-) appears in front of the User Adjust amount. The total is the sum of the DRMA, Map, and User Adjust columns. Figure 5-7 is an example of a base investment record that has been successfully changed.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL CHANGE
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => ADRNMOAX  ECN => 807   CS => *  TD => *     INVESTMENT => = 11275
LOCATION  ECN  TD       TOTAL INVEST   DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --       ------------   -----------   -----------   -----------
ADRNMOAX  807                11,275             0             0        11,275
ADRNMOAX  808                 7,615         7,615             0             0
ADRNMOAX  809                27,764        27,764             0             0
ADRNMOAX  811                51,789        51,789             0             0
ADRNMOAX  814                 3,288         3,288             0             0
ADRNMOAX  821                 8,496         8,496             0             0
ADRNMOAX  824                   880           880             0             0
ADRNMOAX  834                 8,862         8,862             0             0
ADRNMOAX  841                 1,495         1,495             0             0
ADRNMOAX  843                18,954        18,954             0             0
ADRNMOAX  844                   853           853             0             0
ADRNMOAX  868                17,741        17,741             0             0
ADRNMOAX  870                68,019        68,019             0             0
ADRNMOAX          SUB       227,031       215,756             0        11,275
```

Figure 5-7. Changing Base Investments

If you have deleted a record, the record is never removed; the negative (DRMA investment and Map) amount is moved to the User Adjust column, and the total becomes zero. The amount you deleted is displayed in the Investment field so you can replace a record if you have accidentally deleted it. Figure 5-8 is an example of a base investment record with investments successfully deleted.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL DELETE
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => ADRNMOAX  ECN => 807   CS => *  TD => *     INVESTMENT => = 11,275
LOCATION  ECN  TD       TOTAL INVEST   DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --       ------------   -----------   -----------   -----------
ADRNMOAX  807                     0             0             0             0
ADRNMOAX  808                 7,615         7,615             0             0
ADRNMOAX  809                27,764        27,764             0             0
ADRNMOAX  811                51,789        51,789             0             0
ADRNMOAX  814                 3,288         3,288             0             0
ADRNMOAX  821                 8,496         8,496             0             0
ADRNMOAX  824                   880           880             0             0
ADRNMOAX  834                 8,862         8,862             0             0
ADRNMOAX  841                 1,495         1,495             0             0
ADRNMOAX  843                18,954        18,954             0             0
ADRNMOAX  844                   853           853             0             0
ADRNMOAX  868                17,741        17,741             0             0
ADRNMOAX  870                68,019        68,019             0             0
ADRNMOAX          SUB       215,756       215,756             0             0
```

Figure 5-8. Deleting Base Investments

Figure 5-9 shows the version of the Analyze/Adjust Base Investment screen that is displayed when you select after study in the Ver field. This screen shows how investments were spread after you executed the basic study. Use the Left command to view the entire contents of the screen.

```
---------------  T/DIS-CES ANALYZE POST-STUDY BASE INVESTMEN  ROW 1 FROM 6867
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot =>     (LE/EL)
TABLE => B (B-Base, C-CS, E-ECN800, P-Power)  VER => A (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION   ECN  TD     TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------   ---  --     ------------    -----------   -----------   -----------
ADRNMOAX   808                   0          7,615             0             0
ADRNMOAX   808  T1           15,573              0             0             0
ADRNMOAX   809                   0         27,764             0             0
ADRNMOAX   809  T1           29,387              0             0             0
ADRNMOAX   811                51,789         51,789             0             0
ADRNMOAX   814                 3,541          3,288             0             0
ADRNMOAX   821                 8,496          8,496             0             0
ADRNMOAX   824                   0            880             0             0
ADRNMOAX   834                   0          8,862             0             0
ADRNMOAX   841                 1,495          1,495             0             0
ADRNMOAX   843                18,954         18,954             0             0
ADRNMOAX   844                   853            853             0             0
ADRNMOAX   868                17,741         17,741             0             0
ADRNMOAX   870                68,019         68,019             0             0
```

Figure 5-9. Post-study Version of the Analyze/Adjust Base Investment Screen

5.1.4 Analyze/Adjust Central Stock Investment Screen

This screen allows you to analyze and adjust central stock investments. Any value that remains in the Total field in the After (a) study on this screen could not be spread. The study spreads any central stock investment to a location that has a corresponding ECN with usage. A value of zero indicates that a spread was successful. Any non-zero value will cause an imbalance between the result total and the DRMA input.

5.1.4.1 Accessing the Analyze/Adjust Central Stock Investment Screen

You can access the Analyze/Adjust Central Stock Investment screen from any of the Analyze/Adjust Investment screens. To display all of the current central stock investments:

1. Enter **v** in the Action field and enter **c** in the Table field provided on each investment screen.
2. Specify the version in the Ver field.

The Analyze/Adjust Central Stock Investment screen (Figure 5-10) is displayed.

```
-----------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY CENTRAL STOCK   ROW 1 FROM 76
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot =>     (LE/EL)
TABLE => C (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION   ECN  CS     TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------   ---  --     ------------    -----------   -----------   -----------
BGTNMOAU   804   Y             844           844             0             0
BGTNMOAU   808   Y           2,015         2,015             0             0
BGTNMOAU   809   Y          50,094        50,094             0             0
BGTNMOAU   810   Y         128,792       128,792             0             0
BGTNMOAU   813   Y             521           521             0             0
BGTNMOAU   814   Y          75,116        75,116             0             0
BGTNMOAU   821   Y           6,263         6,263             0             0
BGTNMOAU   834   Y           4,071         4,071             0             0
BGTNMOAU   838   Y             433           433             0             0
BGTNMOAU   843   Y             154           154             0             0
BGTNMOAU   846   Y             927           927             0             0
BGTNMOAU   861   Y           4,833         4,833             0             0
BGTNMOAU   868   Y           3,555         3,555             0             0
BGTNMOAU   893   Y          34,168        34,168             0             0
```

Figure 5-10. Analyze/Adjust Central Stock Investment Screen

Figure 5-11 shows the Analyze/Adjust Central Stock Investment screen with the LE Sub/Tot specified.

```
-------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY C  ---  ROW 1 FROM 82
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => C (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
BGTNMOAU  804  Y               844            844             0             0
BGTNMOAU  808  Y             2,015          2,015             0             0
BGTNMOAU  809  Y            50,094         50,094             0             0
BGTNMOAU  810  Y           128,792        128,792             0             0
BGTNMOAU  813  Y               521            521             0             0
BGTNMOAU  814  Y            75,116         75,116             0             0
BGTNMOAU  821  Y             6,263          6,263             0             0
BGTNMOAU  834  Y             4,071          4,071             0             0
BGTNMOAU  838  Y               433            433             0             0
BGTNMOAU  843  Y               154            154             0             0
BGTNMOAU  846  Y               927            927             0             0
BGTNMOAU  861  Y             4,833          4,833             0             0
BGTNMOAU  868  Y             3,555          3,555             0             0
BGTNMOAU  893  Y            34,168         34,168             0             0
```

Figure 5-11. Analyze/Adjust Central Stock Investment Screen With the LE Sub/Tot Specified

Figure 5-12 shows the Analyze/Adjust Central Stock Investment screen with the EL Sub/Tot specified.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY C  --  ROW 1 FROM 117
COMMAND ===>                                                 SCROLL ===> HALF

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => EL  (LE/EL)
TABLE => C (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
ECN  LOCATION CS       TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
---  -------- --       ------------    -----------   -----------   -----------
804  BGTNMOAU Y                844           844             0             0
804  KSCYMO60 Y            156,903       156,903             0             0
804              SUB       157,747       157,747             0             0
808  BGTNMOAU Y              2,015         2,015             0             0
808  KSCYMOEK Y              2,168         2,168             0             0
808  KSCYMO60 Y            287,957       287,957             0             0
808              SUB       292,140       292,140             0             0
809  BGTNMOAU Y             50,094        50,094             0             0
809  KSCYMOEK Y             11,737        11,737             0             0
809  KSCYMO60 Y          2,420,202     2,420,202             0             0
809              SUB     2,482,033     2,482,033             0             0
810  BGTNMOAU Y            128,792       128,792             0             0
810  KSCYMOEK Y             44,023        44,023             0             0
810  KSCYMO60 Y          2,059,814     2,059,814             0             0
```

Figure 5-12. Analyze/Adjust Central Stock Investment Screen With the EL Sub/Tot Specified

5.1.4.2 Editing Central Stock Investments

Options are provided on the Analyze/Adjust Central Stock Investment screen that allow you to edit central stock investment records. To edit central stock investment records, follow the procedures below:

1. Enter the code that corresponds to the action you want to take in the Action field.
2. Enter **c** in the Table field. The C remains displayed in this field as long as you are working on the Analyze/Adjust Central Stock Investment screen.
3. Enter **b** in the Ver field.
4. Enter values in the following fields (all other fields should be blank or contain an asterisk):
   - LOC - specify the location you are adding.
   - ECN - specify the ECN you are adding.
   - INVESTMENT - If you selected *add*, enter = and specify the amount you want to associate with the location and ECN.
     If you selected *change*, enter = and specify the new total you want to associate with the location and ECN.

     If you selected *delete*, leave this field blank.
5. Press the ENTER key.

The record is processed and becomes the first line of data displayed on your screen. A successful update message is displayed in the upper right corner of the screen. If TDIS-CES was unable to process your request, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

Values you enter when editing a record are retained after TDIS-CES has finished processing your request, except the value you entered in the Action field. If you switch to a different Analyze/Adjust Investment table, the values are transferred to the input fields.

If you have added a record, the investment amount appears in the Total Invest and User Adjust fields. Figure 5-13 is an example of a central stock investment record that has been successfully added.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY C  --- SUCCESSFUL ADD
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => C (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => BGTNMOAU  ECN => 803   CS => *  TD => *     INVESTMENT => = 7500
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
BGTNMOAU  803  *              7,500              0             0         7,500
BGTNMOAU  804  Y                844            844             0             0
BGTNMOAU  808  Y              2,015          2,015             0             0
BGTNMOAU  809  Y             50,094         50,094             0             0
BGTNMOAU  810  Y            128,792        128,792             0             0
BGTNMOAU  813  Y                521            521             0             0
BGTNMOAU  814  Y             75,116         75,116             0             0
BGTNMOAU  821  Y              6,263          6,263             0             0
BGTNMOAU  834  Y              4,071          4,071             0             0
BGTNMOAU  838  Y                433            433             0             0
BGTNMOAU  843  Y                154            154             0             0
BGTNMOAU  846  Y                927            927             0             0
BGTNMOAU  861  Y              4,833          4,833             0             0
BGTNMOAU  868  Y              3,555          3,555             0             0
```

Figure 5-13. Adding Central Stock Investments

If you have changed a record, the amount that you entered in the Investment field appears in the Total Invest column. The DRMA invest column is unchanged. The amount the old value was decreased or increased is displayed in the User Adjust field. If you have decreased the total, a minus sign (-) appears in front of the User Adjust amount. The total is the sum of the DRMA, Map, and User Adjust columns. Figure 5-14 is an example of a central stock investment record that has been successfully changed.

```
-------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL CHANGE
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => C (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => BGTNMOAU  ECN => 803   CS => *  TD => *     INVESTMENT => = 11000
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
BGTNMOAU  803  *             11,000              0             0        11,000
BGTNMOAU  804  Y                844            844             0             0
BGTNMOAU  808  Y              2,015          2,015             0             0
BGTNMOAU  809  Y             50,094         50,094             0             0
BGTNMOAU  810  Y            128,792        128,792             0             0
BGTNMOAU  813  Y                521            521             0             0
BGTNMOAU  814  Y             75,116         75,116             0             0
BGTNMOAU  821  Y              6,263          6,263             0             0
BGTNMOAU  834  Y              4,071          4,071             0             0
BGTNMOAU  838  Y                433            433             0             0
BGTNMOAU  843  Y                154            154             0             0
BGTNMOAU  846  Y                927            927             0             0
BGTNMOAU  861  Y              4,833          4,833             0             0
BGTNMOAU  868  Y              3,555          3,555             0             0
```

Figure 5-14. Changing Central Stock Investments

If you have deleted a record, the record is never removed; the negative (DRMA investment and Map) amount is moved to the User Adjust column, and the total becomes zero. The amount you deleted is displayed in the Investment field so you can replace a record if you have accidentally deleted it. Figure 5-15 is an example of a central stock investment record with investments successfully deleted.

> **NOTE —** When deleting with a non-zero DRMA Investment, the User Adjust field is set to the negative DRMA amount.

```
-------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL DELETE
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => C (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => BGTNMOAU  ECN => 803   CS => *  TD => *     INVESTMENT => = 11,000
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
BGTNMOAU  803  *                0              0             0             0
BGTNMOAU  804  Y              844            844             0             0
BGTNMOAU  808  Y            2,015          2,015             0             0
BGTNMOAU  809  Y           50,094         50,094             0             0
BGTNMOAU  810  Y          128,792        128,792             0             0
BGTNMOAU  813  Y              521            521             0             0
BGTNMOAU  814  Y           75,116         75,116             0             0
BGTNMOAU  821  Y            6,263          6,263             0             0
BGTNMOAU  834  Y            4,071          4,071             0             0
BGTNMOAU  838  Y              433            433             0             0
BGTNMOAU  843  Y              154            154             0             0
BGTNMOAU  846  Y              927            927             0             0
BGTNMOAU  861  Y            4,833          4,833             0             0
BGTNMOAU  868  Y            3,555          3,555             0             0
```

Figure 5-15. Deleting Central Stock Investments

Figure 5-16 shows the version of the Analyze/Adjust Central Stock Investment screen that is displayed when you select after study in the Ver field. This screen shows how investments were spread or not spread after you executed the basic study.

Those investments that were not spread will cause an imbalance in the results when compared to the DRMA Investment. This indicates that

- There was no usage and investment at any location
- Where investment and usage matched, it was 4.NRP.

```
-------------------  T/DIS-CES ANALYZE POST-STUDY CENTRAL  ---  ROW 1 FROM 82
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => C (B-Base, C-CS, E-ECN800, P-Power)  VER => A (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
BGTNMOAU  804  Y                 0           844             0             0
BGTNMOAU  808  Y                 0         2,015             0             0
BGTNMOAU  809  Y                 0        50,094             0             0
BGTNMOAU  810  Y                 0       128,792             0             0
BGTNMOAU  813  Y                 0           521             0             0
BGTNMOAU  814  Y                 0        75,116             0             0
BGTNMOAU  821  Y             6,263         6,263             0             0
BGTNMOAU  834  Y                 0         4,071             0             0
BGTNMOAU  838  Y                 0           433             0             0
BGTNMOAU  843  Y               154           154             0             0
BGTNMOAU  846  Y               927           927             0             0
BGTNMOAU  861  Y                 0         4,833             0             0
BGTNMOAU  868  Y             3,555         3,555             0             0
BGTNMOAU  893  Y                 0        34,168             0             0
```

Figure 5-16. Post-study Version of the Analyze/Adjust Central Stock Investment Screen

5.1.5 Analyze/Adjust ECN 800 Investment Screen

This screen allows you to analyze and adjust ECN 800 investments. ECN 800 investments come from DRMA when the DRMA data is loaded. On the ECN 800 Investment screen you may also determine if the 800 investment was spread at all using the After Study version. After the study, values remaining in the total represent investments not spread to the base.

Any value remaining in the total column on this screen could not be spread. The study spreads any ECN 800 investment to a location that has investment and corresponding usage, and a corresponding ECN that is not in the No 800 Spread ECN table. A value of zero in the total column indicates that a spread was successful.

5.1.5.1 Accessing the Analyze/Adjust ECN 800 Investment Screen

You can access the Analyze/Adjust ECN 800 Investment screen from any of the Analyze/ Adjust Investment screens. To access the ECN 800 Investment screen:

1. Enter **e** in the Table field provided on each investment screen.
2. Specify the version in the Ver field.

The Analyze/Adjust ECN 800 Investment screen (Figure 5-17) is displayed.

To display all of the current ECN 800 investments, enter **v** in the Action field and press the ENTER key.

```
---------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY ECN 800 IN  ROW 1 FROM 234
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot =>     (LE/EL)
TABLE => E (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION   ECN  CS     TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------   ---  --     ------------    -----------   -----------   -----------
AGNCMOAL   800   N          103,568        103,568             0             0
ALBYMORS   800   N           68,425         68,425             0             0
ALBYMOXA   800   N           18,641         18,641             0             0
ARSNMOXA   800   N           63,424         63,424             0             0
AVCYMORS   800   N           24,063         24,063             0             0
BCTRMOXA   800   N           21,630         21,630             0             0
BETNMOAB   800   N            1,538          1,538             0             0
BGRDMOXA   800   N           13,684         13,684             0             0
BLCYMOQ0   800   N           15,803         15,803             0             0
BLFDMOLO   800   N          120,902        120,902             0             0
BLFDMOQ0   800   N               51             51             0             0
BNVLMOR3   800   N            2,767          2,767             0             0
BNVLMOTU   800   N               39             39             0             0
BRBNMORS   800   N            4,448          4,448             0             0
```

Figure 5-17. Analyze/Adjust ECN 800 Investment Screen

Figure 5-18 shows the Analyze/Adjust ECN 800 Investment screen with the LE Sub/Tot specified.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY E    ROW 221 FROM 235
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => E (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
UNSTMOXA  800  N             19,328         19,328             0             0
VNBRMORS  800  N             78,977         78,977             0             0
VNBRMOXA  800  N             19,518         19,518             0             0
WASHMOBE  800  N            268,671        268,671             0             0
WASHMORB  800  N              1,646          1,646             0             0
WINOMOXA  800  N             48,181         48,181             0             0
WLGVMOWY  800  N                367            367             0             0
WLKRMOQ0  800  N             10,316         10,316             0             0
WLRDMOSH  800  N                633            633             0             0
WQNCMORS  800  N             78,333         78,333             0             0
WQNCMOXA  800  N              8,670          8,670             0             0
WSBNMOQ0  800  N             18,773         18,773             0             0
WSVLMORS  800  N             57,090         57,090             0             0
WYTTMOOR  800  N             52,714         52,714             0             0
```

Figure 5-18. Analyze/Adjust ECN 800 Investment Screen With the LE Sub/Tot Specified

Figure 5-19 shows the Analyze/Adjust ECN 800 Investment screen with the EL Sub/Tot specified.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY E    ROW 222 FROM 236
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => EL  (LE/EL)
TABLE => E (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
ECN  LOCATION  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
---  --------  --      ------------    -----------   -----------   -----------
800  VNBRMORS  N             78,977         78,977             0             0
800  VNBRMOXA  N             19,518         19,518             0             0
800  VNBZMOXA  N                  0              0             0             0
800  WASHMOBE  N            268,671        268,671             0             0
800  WASHMORB  N              1,646          1,646             0             0
800  WINOMOXA  N             48,181         48,181             0             0
800  WLGVMOWY  N                367            367             0             0
800  WLKRMOQ0  N             10,316         10,316             0             0
800  WLRDMOSH  N                633            633             0             0
800  WQNCMORS  N             78,333         78,333             0             0
800  WQNCMOXA  N              8,670          8,670             0             0
800  WSBNMOQ0  N             18,773         18,773             0             0
800  WSVLMORS  N             57,090         57,090             0             0
800  WYTTMOOR  N             52,714         52,714             0             0
```

Figure 5-19. Analyze/Adjust ECN 800 Investment Screen With the EL Sub/Tot Specified

5.1.5.2 Editing an ECN 800 Investment

Options are provided on the Analyze/Adjust ECN 800 Investment screen that allow you to edit ECN 800 investment records. To edit ECN 800 investment records, follow the procedures below:

1. Enter the code that corresponds to the action you want to take in the Action field.
2. Enter **e** in the Table field. The E remains displayed in this field as long as you are working on the Analyze/Adjust ECN 800 Investment screen.
3. Enter **b** in the VER field.
4. Enter values in the following fields (all other fields should be blank or contain an asterisk):
   - LOC - specify the location you are adding.
   - ECN - optionally, enter the ECN.
   - INVESTMENT - If you selected *add*, enter = and specify the amount you want to associate with the location and ECN.
     If you selected *change*, enter = and specify the new total you want to associate with the location and ECN.

     If you selected *delete*, leave this field blank.
5. Press the ENTER key.

The record is processed and becomes the first line of data displayed on your screen. A successful update message is displayed in the upper right corner of the screen. If TDIS-CES was unable to process your request, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

Values you enter when editing a record are retained after TDIS-CES has finished processing your request, except the entry you made in the Action field. If you switch to a different Analyze/Adjust Investment table, the values are transferred to the input fields.

If you have added a record, the investment amount appears in the Total Invest and User Adjust fields. Figure 5-20 is an example of a ECN 800 investment record that has been successfully added.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST          SUCCESSFUL ADD
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => E (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => VNBZMOXA  ECN => 800   CS => *  TD => *     INVESTMENT => = 7500
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
VNBRMOXA  800  N             19,518         19,518             0             0
VNBZMOXA  800  *              7,500              0             0         7,500
WASHMOBE  800  N            268,671        268,671             0             0
WASHMORB  800  N              1,646          1,646             0             0
WINOMOXA  800  N             48,181         48,181             0             0
WLGVMOWY  800  N                367            367             0             0
WLKRMOQ0  800  N             10,316         10,316             0             0
WLRDMOSH  800  N                633            633             0             0
WQNCMORS  800  N             78,333         78,333             0             0
WQNCMOXA  800  N              8,670          8,670             0             0
WSBNMOQ0  800  N             18,773         18,773             0             0
WSVLMORS  800  N             57,090         57,090             0             0
WYTTMOOR  800  N             52,714         52,714             0             0
```

Figure 5-20. Adding ECN 800 Investments

If you have changed a record, the amount that you entered in the Investment field appears in the Total Invest column. The DRMA invest column is unchanged. The amount the old value was decreased or increased is displayed in the User Adjust field. If you have decreased the total, a minus sign (-) appears in front of the amount. The total is the sum of the DRMA, Map, and User Adjust columns. Figure 5-21 is an example of an ECN 800 investment record that has been successfully changed.

```
-------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL CHANGE
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => E (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => VNBZMOXA  ECN => 800   CS => *  TD => *     INVESTMENT => = 10000
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
VNBRMOXA  800  N             19,518         19,518             0             0
VNBZMOXA  800  *             10,000              0             0        10,000
WASHMOBE  800  N            268,671        268,671             0             0
WASHMORB  800  N              1,646          1,646             0             0
WINOMOXA  800  N             48,181         48,181             0             0
WLGVMOWY  800  N                367            367             0             0
WLKRMOQ0  800  N             10,316         10,316             0             0
WLRDMOSH  800  N                633            633             0             0
WQNCMORS  800  N             78,333         78,333             0             0
WQNCMOXA  800  N              8,670          8,670             0             0
WSBNMOQ0  800  N             18,773         18,773             0             0
WSVLMORS  800  N             57,090         57,090             0             0
WYTTMOOR  800  N             52,714         52,714             0             0
```

Figure 5-21. Changing ECN 800 Investments

If you have deleted a record, the record is never removed; the (DRMA investment and Map) amount is moved to the User Adjust column, and the total becomes zero. The amount you deleted is displayed in the Investment field, so you can replace a record if you have accidentally deleted it. Figure 5-22 is an example of an ECN 800 investment record with investments successfully deleted.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL DELETE
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => E (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => VNBZMOXA  ECN => 800   CS => *  TD => *     INVESTMENT => = 10,000
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
VNBRMOXA  800  N              19,518         19,518             0             0
VNBZMOXA  800  *                   0              0             0             0
WASHMOBE  800  N             268,671        268,671             0             0
WASHMORB  800  N               1,646          1,646             0             0
WINOMOXA  800  N              48,181         48,181             0             0
WLGVMOWY  800  N                 367            367             0             0
WLKRMOQ0  800  N              10,316         10,316             0             0
WLRDMOSH  800  N                 633            633             0             0
WQNCMORS  800  N              78,333         78,333             0             0
WQNCMOXA  800  N               8,670          8,670             0             0
WSBNMOQ0  800  N              18,773         18,773             0             0
WSVLMORS  800  N              57,090         57,090             0             0
WYTTMOOR  800  N              52,714         52,714             0             0
```

Figure 5-22. Deleting ECN 800 Investments

Figure 5-23 shows the version of the Analyze/Adjust ECN 800 Investment screen that is displayed when you select after study in the Ver field. This screen shows how investments were or were not spread after you executed the basic study.

```
--------------------  T/DIS-CES ANALYZE POST-STUDY ECN 800    ROW 221 FROM 235
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => E (B-Base, C-CS, E-ECN800, P-Power)  VER => A (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
UNSTMOXA  800  N              19,328         19,328             0             0
VNBRMORS  800  N                   0         78,977             0             0
VNBRMOXA  800  N              19,518         19,518             0             0
WASHMOBE  800  N                   0        268,671             0             0
WASHMORB  800  N               1,646          1,646             0             0
WINOMOXA  800  N              48,181         48,181             0             0
WLGVMOWY  800  N                   0            367             0             0
WLKRMOQ0  800  N                   0         10,316             0             0
WLRDMOSH  800  N                   0            633             0             0
WQNCMORS  800  N              78,333         78,333             0             0
WQNCMOXA  800  N               8,670          8,670             0             0
WSBNMOQ0  800  N              18,773         18,773             0             0
WSVLMORS  800  N              57,090         57,090             0             0
WYTTMOOR  800  N                   0         52,714             0             0
```

Figure 5-23. Post-study Version of the Analyze/Adjust ECN 800 Investment Screen

5.1.6 Analyze/Adjust Power Investment Screen

This screen allow you to analyze and adjust dedicated and common power investments. The investments provided on this screen are not spread onto the base table. These investments are applied in the last steps of the study process after categorization has been done, and are contained on the Verify Results screen.

5.1.6.1 Accessing the Analyze/Adjust Power Investment Screen

You can access the Analyze/Adjust Power Investment screen from any of the Analyze/ Adjust Investment screens. To access the Power Investment screen:

1. Enter **p** in the Table field provided on each investment screen.
2. Specify the version in the Ver field.

The Analyze/Adjust Power Investment screen (Figure 5-24) is displayed.

To display all of the current Power investments, enter **v** in the Action field and press the ENTER key.

```
---------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY POWER IN  ROW 1 FROM 1301
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot =>     (LE/EL)
TABLE => P (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION   ECN  CS     TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------   ---  --     ------------    -----------   -----------   -----------
ADRNMOAX   975   N            7,969          7,969             0             0
ADVNMORA   010   N            1,324          1,324             0             0
ADVNMORA   849   N           10,189         10,189             0             0
AGNCMOAL   849   N              395            395             0             0
ALBYMORS   954   N           15,621         15,621             0             0
ALBYMORS   962   N                0              0             0             0
ALBYMORS   963   N            9,888          9,888             0             0
ANNDMORS   954   N           39,100         39,100             0             0
ANNDMORS   963   N            8,083          8,083             0             0
ANNDMORS   975   N              422            422             0             0
ANNDMORS   983   N              204            204             0             0
ANNPMOXA   849   N            1,581          1,581             0             0
ANNPMOXA   975   N            3,555          3,555             0             0
ANTOMO50   849   N            3,373          3,373             0             0
```

Figure 5-24. Analyze/Adjust Power Investment Screen

Figure 5-25 shows the Analyze/Adjust Power Investment screen with the LE Sub/Tot specified.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY P  -  ROW 1 FROM 1739
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => P (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
ADRNMOAX  975  N              7,969          7,969             0             0
ADRNMOAX       SUB            7,969          7,969             0             0
ADVNMORA  010  N              1,324          1,324             0             0
ADVNMORA  849  N             10,189         10,189             0             0
ADVNMORA       SUB           11,513         11,513             0             0
AGNCMOAL  849  N                395            395             0             0
AGNCMOAL       SUB              395            395             0             0
ALBYMORS  954  N             15,621         15,621             0             0
ALBYMORS  962  N                  0              0             0             0
ALBYMORS  963  N              9,888          9,888             0             0
ALBYMORS       SUB           25,509         25,509             0             0
ANNDMORS  954  N             39,100         39,100             0             0
ANNDMORS  963  N              8,083          8,083             0             0
ANNDMORS  975  N                422            422             0             0
```

Figure 5-25. Analyze/Adjust Power Investment Screen With the LE Sub/Tot Specified

Figure 5-26 shows the Analyze/Adjust Power Investment screen with the EL Sub/Tot specified.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-STUDY P  -  ROW 1 FROM 1322
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => EL  (LE/EL)
TABLE => P (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
ECN  LOCATION  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
---  --------  --      ------------    -----------   -----------   -----------
010  ADVNMORA  N              1,324          1,324             0             0
010  ARCHMOAX  N              1,395          1,395             0             0
010  ARSNMOXA  N                235            235             0             0
010  BLCYMORE  N              8,639          8,639             0             0
010  BLDLMOGU  N             11,379         11,379             0             0
010  BLFDMOQ0  N              7,753          7,753             0             0
010  BLSPMOCA  N             86,124         86,124             0             0
010  BLSPMOU9  N              1,894          1,894             0             0
010  BLWRMORS  N              2,852          2,852             0             0
010  BNTRMOFL  N              1,949          1,949             0             0
010  BOSSMOXA  N              5,415          5,415             0             0
010  BRFDMOCL  N              2,423          2,423             0             0
010  BWLGMOEA  N                309            309             0             0
010  CDHLMO51  N              3,486          3,486             0             0
```

Figure 5-26. Analyze/Adjust Power Investment Screen With the EL Sub/Tot Specified

5.1.6.2 Editing Power Investments

Options are provided on the Analyze/Adjust Power Investment screen that allow you to edit Power investment records. To edit Power investment records, follow the procedures below:

1. Enter the code that corresponds to the action you want to take in the Action field.
2. Enter **p** in the Table field. The P remains displayed in this field as long as you are working on the Analyze/Adjust Power Investment screen.
3. Enter **b** in the Ver field.
4. Enter values in the following fields (an entry in each of these fields is required):
   - LOC - specify the location you are adding.
   - ECN - specify the ECN you are adding.
   - CS - specify Y or N.
   - TD - leave the asterisk.
   - INVESTMENT - If you selected *add*, enter = and specify the amount you want to associate with the location and ECN.
     If you selected *change*, enter = and specify the new total you want to associate with the location and ECN.

     If you selected *delete*, leave this field blank.
5. Press the ENTER key.

The record is processed and becomes the first line of data displayed. A successful update message is displayed in the upper right corner of the screen. If TDIS-CES was unable to process your request, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

Values you enter when editing a record are retained after TDIS-CES has finished processing your request, except the value you made in the Action field. If you switch to a different Analyze/Adjust Investment table, the values are transferred to the input fields.

If you have added a record, the investment amount appears in the Total Invest and User Adjust fields. Figure 5-27 is an example of a Power investment record that has been successfully added.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST          SUCCESSFUL ADD
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => P (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => ADRNMOAX  ECN => 973   CS => Y  TD => *     INVESTMENT => = 1000
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
ADRNMOAX  973  Y              1,000              0             0         1,000
ADRNMOAX  975  N              7,969          7,969             0             0
ADRNMOAX       SUB            8,969          7,969             0         1,000
ADVNMORA  010  N              1,324          1,324             0             0
ADVNMORA  849  N             10,189         10,189             0             0
ADVNMORA       SUB           11,513         11,513             0             0
AGNCMOAL  849  N                395            395             0             0
AGNCMOAL       SUB              395            395             0             0
ALBYMORS  954  N             15,621         15,621             0             0
ALBYMORS  962  N                  0              0             0             0
ALBYMORS  963  N              9,888          9,888             0             0
ALBYMORS       SUB           25,509         25,509             0             0
ANNDMORS  954  N             39,100         39,100             0             0
ANNDMORS  963  N              8,083          8,083             0             0
```

Figure 5-27. Adding Power Investments

If you have changed a record, the amount that you entered in the Investment field appears in the Total Invest column. The DRMA invest column is unchanged. The amount the old value was decreased or increased is displayed in the User Adjust field. If you have decreased the total, a minus sign (-) appears in front of the User Adjust amount. The total is the sum of the DRMA, Map, and User Adjust columns. Figure 5-28 is an example of a Power investment record that has been successfully changed.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL CHANGE
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => P (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => ADRNMOAX  ECN => 973   CS => Y  TD => *     INVESTMENT => = 7737
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
ADRNMOAX  973  Y              7,737              0             0         7,737
ADRNMOAX  975  N              7,969          7,969             0             0
ADRNMOAX         SUB         15,706          7,969             0         7,737
ADVNMORA  010  N              1,324          1,324             0             0
ADVNMORA  849  N             10,189         10,189             0             0
ADVNMORA         SUB         11,513         11,513             0             0
AGNCMOAL  849  N                395            395             0             0
AGNCMOAL         SUB             395            395             0             0
ALBYMORS  954  N             15,621         15,621             0             0
ALBYMORS  962  N                  0              0             0             0
ALBYMORS  963  N              9,888          9,888             0             0
ALBYMORS         SUB         25,509         25,509             0             0
ANNDMORS  954  N             39,100         39,100             0             0
ANNDMORS  963  N              8,083          8,083             0             0
```

Figure 5-28. Changing Power Investments

If you have deleted a record, the record is never removed; the (DRMA investment and Map) amount is moved to the User Adjust column, and the total becomes zero. The amount deleted is reflected in the Investment field, so you can replace a record if you have accidentally deleted it. Figure 5-29 is an example of an ECN 800 investment record with investments successfully deleted.

```
--------------------  T/DIS-CES ANALYZE/ADJUST PRE-ST        SUCCESSFUL DELETE
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => P (B-Base, C-CS, E-ECN800, P-Power)  VER => B (B-Before/A-After Study)
LOC => ADRNMOAX  ECN => 973   CS => Y  TD => *     INVESTMENT => = 7,737
LOCATION  ECN  CS      TOTAL INVEST    DRMA INVEST   LOC/ECN MAP   USER ADJUST
--------  ---  --      ------------    -----------   -----------   -----------
ADRNMOAX  973  Y                 0              0             0             0
ADRNMOAX  975  N             7,969          7,969             0             0
ADRNMOAX       SUB           7,969          7,969             0             0
ADVNMORA  010  N             1,324          1,324             0             0
ADVNMORA  849  N            10,189         10,189             0             0
ADVNMORA       SUB          11,513         11,513             0             0
AGNCMOAL  849  N               395            395             0             0
AGNCMOAL       SUB             395            395             0             0
ALBYMORS  954  N            15,621         15,621             0             0
ALBYMORS  962  N                 0              0             0             0
ALBYMORS  963  N             9,888          9,888             0             0
ALBYMORS       SUB          25,509         25,509             0             0
ANNDMORS  954  N            39,100         39,100             0             0
ANNDMORS  963  N             8,083          8,083             0             0
```

Figure 5-29. Deleting Power Investments

Figure 5-30 shows the version of the Analyze/Adjust Power Investment screen that is displayed when you select after study in the Ver field. This screen shows how investments were spread after you executed the basic study.

```
--------------------  T/DIS-CES ANALYZE POST-STUDY POWER I  ROW 1725 FROM 1739
COMMAND ===>                                                 SCROLL ===> PAGE

ACTION =>   (V-View, P-Prt, L-Loc, A-Add, C-Chg, D-Del)  Sub/Tot => LE  (LE/EL)
TABLE => P (B-Base, C-CS, E-ECN800, P-Power)  VER => A (B-Before/A-After Study)
LOC => *         ECN => *     CS => *  TD => *     INVESTMENT => *
LOCATION ECN CS TOTAL INVEST DRMA INVEST  LOC/ECN MAP  USER ADJUST NO VALID CAT
-------- --- -- ------------ -----------  -----------  ----------- ------------
WQNCMORS --- -             0      14,523            0            0       -14,523
WRCYMORS 849 N             0         788            0            0          -788
WRCYMORS 954 N             0      42,872            0            0       -42,872
WRCYMORS --- -             0      43,660            0            0       -43,660
WRTNMOQ0 952 N             0      49,170            0            0       -49,170
WRTNMOQ0 972 N             0         466            0            0          -466
WRTNMOQ0 --- -             0      49,636            0            0       -49,636
WSVLMORS 849 N             0         266            0            0          -266
WSVLMORS 954 N             0      14,628            0            0       -14,628
WSVLMORS 963 N             0         404            0            0          -404
WSVLMORS --- -             0      15,298            0            0       -15,298
WYTTMOOR 010 N             0       2,411            0            0           101
WYTTMOOR 962 N             0       5,960            0            0         1,320
WYTTMOOR --- -             0       8,371            0            0         1,421
```

Figure 5-30. Post-study Version of the Analyze/Adjust Power Investment Screen

5.2 Verify Complement Usage Screen

This screen allows you to view the complement table and its contents. The data displayed on this screen is from TDIS, and any other data you defined in the Supplemental Usage table. Data from the Supplemental Usage table is blended in when the TDIS data is loaded.

> **NOTE —** This screen is only for viewing; it does not provide any means for updating the complement table.

5.2.1 Accessing the Verify Complement Usage Screen

Use either of the following methods to access the Verify Complement Usage screen:

- From the TDIS-CES Main Menu, enter **C** in the Option field.
- From any screen in TDIS-CES, enter **=C** in the Command field.

The Verify Complement Usage screen is displayed (see Figure 5-31).

> **NOTE —** Depending on when you are accessing this screen, you may or may not cause the Status screen to display. If, when you accessed this table, TDIS-CES contains changes to tables that affect the accuracy of the data contained on this table since the last study run, a status screen is displayed after you have accessed this screen.
>
> This Status screen identifies tables with changes that affect this function only, and the action you should take to incorporate those changes into the data displayed on this screen. Section 10 provides more information about the Status screen.

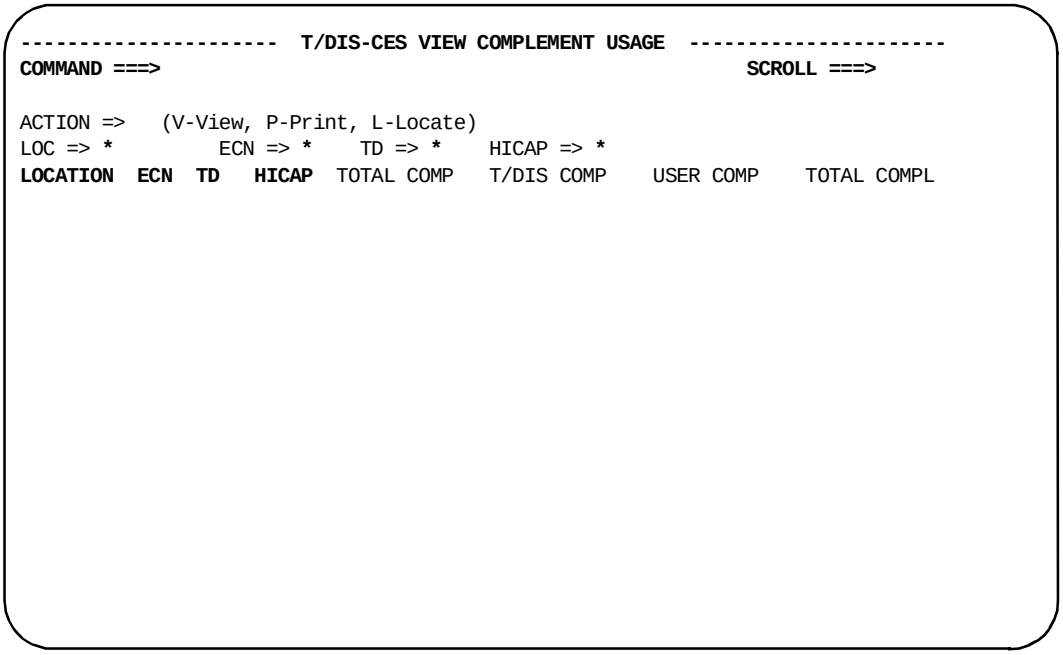


Figure 5-31. View Complement Usage Screen

5.2.2 Verify Complement Usage Screen Field Definitions

Table 5-2 contains a description for each of the fields on the Verify Complement Usage screen.

Table 5-2. View Complement Usage Screen Field Definitions

Field	Description
Action	This field tells TDIS-CES what to do. See Section 2.8 for a description of the Action field. The printout resulting from the Print action includes a list of user tables containing changes that affect the data associated with this function.
LOC, ECN, TD, HICAP	These fields are enterable fields on line four. You can use them to limit the data displayed when you are viewing usage data. Field definitions are provided in Section 2.10. On line five these are column headings that identify the data displayed beneath them. The highlighted fields that are present on many of the screens within TDIS-CES represent fields that uniquely identify a record. These fields cannot be duplicated. They are also the fields TDIS-CES uses to sort the data and establish a view. The ECN value can be 801 through 898, excluding 849. The HICAP field can contain an asterisk or **Y** or **N**.
TOTAL COMP	This count is the accumulated number of units for each frame, HECIG, and ECN at the location.
TDIS COMP	This is the complement counts from TIRKS/TDIS.
USER COMP	This is the complements entered using supplemental usage within tables.
TOTAL COMPL	This is the count of occurrences of the ECN that was found for a location. This is the equivalent of the times that a frame, HECIG, or relay rock was found for an ECN.
MAP COMP	This is the result of usage mapping.

To view the complement table:

1. Enter **v** in the Action field.
2. To view the entire complement table, retain the asterisks in the LOC, ECN, TD, and ECN fields. If you wish to limit what data is displayed, you can enter specific values in any of the LOC, ECN, TD, or ECN fields.
3. Press the ENTER key.

Figure 5-32 shows an example of the complement table. Figure 5-33 shows an example of the complement table scrolled to the right.

```
---------------------  T/DIS-CES VIEW COMPLEMENT USAGE  ----  ROW 1 FROM 2953
COMMAND ===>                                                  SCROLL ===>

ACTION =>   (V-View, P-Print, L-Locate)
LOC => *         ECN => *    TD => *    HICAP => *
LOCATION  ECN  TD   HICAP  TOTAL COMP   T/DIS COMP    USER COMP    TOTAL COMPL
--------  ---  ---  -----  -----------  -----------  ------------  -----------
ADRNMOAX  808                      28           28             0            1
ADRNMOAX  808  T1                 168          168             0            7
ADRNMOAX  809  T1                 168          168             0            7
ADRNMOAX  814                      28           28             0            1
ADRNMOAX  838                       1            1             0            1
ADVNMORA  808  T1                 240          240             0           10
ADVNMORA  809  T1                 240          240             0           10
AGNCMOAL  808                      84           84             0            3
AGNCMOAL  808  T1                 288          288             0           12
AGNCMOAL  809  T1                 288          288             0           12
AGNCMOAL  813  T3X                  3            3             0            1
AGNCMOAL  814                      84           84             0            3
AGNCMOAL  814  T3X                  4            4             0            2
AGNCMOAL  838                       1            1             0            1
ANNDMORS  808                      56           56             0            2
```

Figure 5-32. View Complement Usage Screen

```
----------------------  T/DIS-CES VIEW COMPLEMENT USAGE  ----  ROW 1 FROM 2953
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)
LOC => *          ECN => *     TD => *    HICAP => *
LOCATION  ECN  TD   HICAP  TOTAL COMP     MAP  COMP
--------  ---  ---  -----  -----------  ------------
ADRNMOAX  808                      28             0
ADRNMOAX  808  T1                 168             0
ADRNMOAX  809  T1                 168             0
ADRNMOAX  814                      28             0
ADRNMOAX  838                       1             0
ADVNMORA  808  T1                 240             0
ADVNMORA  809  T1                 240             0
AGNCMOAL  808                      84             0
AGNCMOAL  808  T1                 288             0
AGNCMOAL  809  T1                 288             0
AGNCMOAL  813  T3X                  3             0
AGNCMOAL  814                      84             0
AGNCMOAL  814  T3X                  4             0
AGNCMOAL  838                       1             0
ANNDMORS  808                      56             0
```

Figure 5-33. View Complement Usage Screen with RIGHT Command

5.3 Analyze/Adjust Usage Screen

This screen provides detailed usage data. The data displayed on this screen is from TDIS, and any other data you defined in the Supplemental Usage table. Data from the Supplemental Usage table is blended in when the TDIS data is loaded.

You can use this screen to analyze usage data and make adjustments to it. You can add, change, and delete usage data using this screen.

5.3.1 Accessing the Analyze/Adjust Usage Screen

Use either of the following methods to access the Analyze/Adjust Usage screen:

- From the TDIS-CES Main Menu, enter **U** in the Option field.
- From any screen in TDIS-CES, enter **=U** in the Command field.

The Analyze/Adjust Usage screen is displayed (Figure 5-34).

> **NOTE —** Depending on when you are accessing this screen, you may or may not cause the Status screen to display. If, when you accessed this table, TDIS-CES contains changes to tables that affect the accuracy of the data contained on this table since the last study run, a status screen is displayed after you have accessed this screen.
>
> This Status screen identifies tables with changes that affect this function only, and the action you should take to incorporate those changes into the data displayed on this screen. Section 10 provides more information about the Status screen.

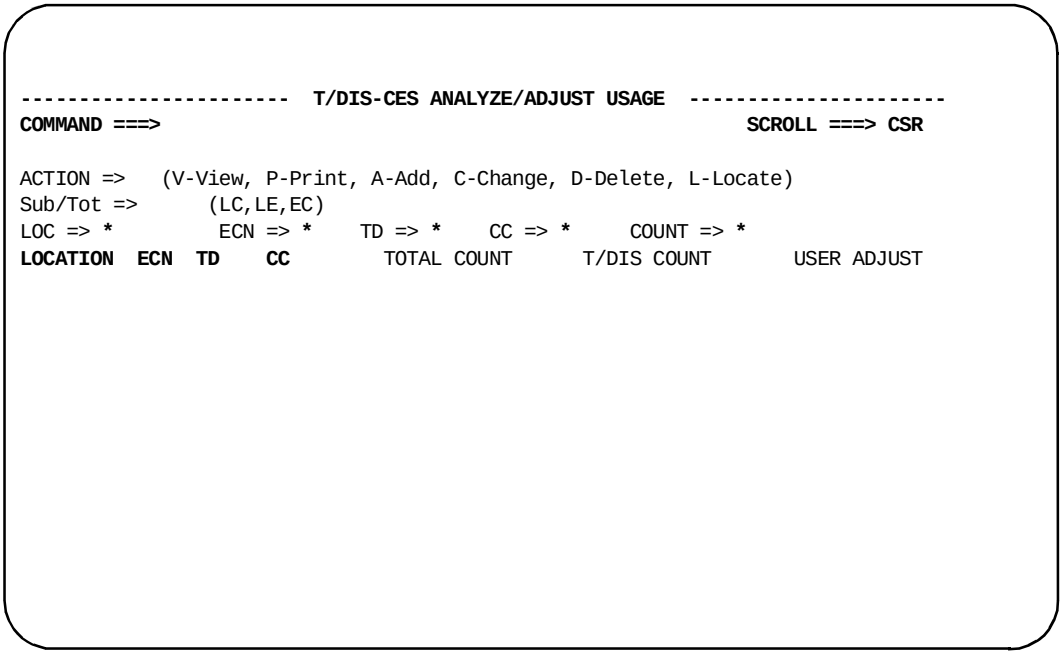


Figure 5-34. Analyze/Adjust Usage Screen

5.3.2 Analyze/Adjust Usage Screen Field Definitions

Table 5-3 contains a description of each field on the Analyze/Adjust Usage screen.

Table 5-3. Analyze/Adjust Usage Screen Field Definitions

Field	Description
Title	Line one identifies the type of investment data contained on the screen.
ACTION	This field tells TDIS-CES what to do. See Section 2.8 for a description of the Action field. The printout resulting from the Print action includes a list of user tables containing changes that affect the data associated with this function.

Table 5-3. Analyze/Adjust Usage Screen Field Definitions (Continued)

Field	Description
Sub/Tot	This field is used for displaying subtotals and a grand total line on the display. Valid entries are **LC**, **LE**, **EL**, or a blank. Blank No totals are displayed **EC** Subtotals for class codes within an ECN are displayed **LC** Subtotals for class codes within a location are displayed. **LE** Subtotals for ECNs within a location are displayed. Subtotals are identified by the word "**SUB**" on the appropriate line. When you add, change, or delete investment data, the subtotals fields will be automatically updated. The order the LOCATION, ECN, TD, and CC headers appear in the Analyze/Adjust Usage screen will change to reflect which subtotal format you selected.
LOC, ECN, TD, CC	These fields are enterable fields on line five. You use them when you are adding, changing, or deleting usage data. You can use them to limit the data displayed when you are viewing usage data. Field definitions are provided in Section 2.10. On line six these are column headings that identify the data displayed beneath them. Use a logical operator when specifying an investment value. Logical operators are described in Section 2.11. When editing a record, specify the equal sign as your logical operator in the Investment field. The highlighted fields that are present on many of the screens within TDIS-CES represent fields that uniquely identify a record. These fields cannot be duplicated. They are also the fields TDIS-CES uses to sort the data and establish a view. The ECN value can be 801 through 898, excluding 849.
COUNT	This field identifies the number of working subdivisions.
TOTAL COUNT	This field identifies the total usage count. The values in the TDIS count and the User Adjust fields add up to the value in this field.
TDIS COUNT	This field identifies the number of working subdivisions obtained from TDIS.
USER ADJUST	This field identifies the amount you adjusted. The value in this field comes from any adjustments you make on this screen plus what you defined in the Supplemental Usage table during the usage load.

Figure 5-35 shows a Analyze/Adjust Usage screen when viewing usage data.

```
----------------------  T/DIS-CES ANALYZE/ADJUST USAGE  ---  ROW 1 FROM 11947
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, A-Add, C-Change, D-Delete, L-Locate)
Sub/Tot =>      (LC,LE,EC)
LOC => *         ECN => *    TD => *    CC => *     COUNT => *
LOCATION  ECN  TD    CC        TOTAL COUNT      T/DIS COUNT       USER ADJUST
--------  ---  ---  ----       -----------      -----------       -----------
ADRNMOAX  808       XA              7.0000           7.0000            0.0000
ADRNMOAX  808  T1   GS              6.0000           6.0000            0.0000
ADRNMOAX  808  T1   IG              1.0000           1.0000            0.0000
ADRNMOAX  808  T1   K1             15.0000          15.0000            0.0000
ADRNMOAX  808  T1   MJ             71.0000          71.0000            0.0000
ADRNMOAX  808  T1   NA              7.0000           7.0000            0.0000
ADRNMOAX  808  T1   SG              1.0000           1.0000            0.0000
ADRNMOAX  808  T1   SN             17.0000          17.0000            0.0000
ADRNMOAX  809  T1   GS              6.0000           6.0000            0.0000
ADRNMOAX  809  T1   IG              1.0000           1.0000            0.0000
ADRNMOAX  809  T1   K1             15.0000          15.0000            0.0000
ADRNMOAX  809  T1   MJ             71.0000          71.0000            0.0000
ADRNMOAX  809  T1   NA              7.0000           7.0000            0.0000
ADRNMOAX  809  T1   SG              1.0000           1.0000            0.0000
```

Figure 5-35. Analyze/Adjust Usage Screen Viewing Usage Data

Figure 5-36 shows a Analyze/Adjust Usage screen when viewing usage data and using the LC Sub/Tot option.

```
----------------------  T/DIS-CES ANALYZE/ADJUST USAGE  ---  ROW 1 FROM 17172
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, A-Add, C-Change, D-Delete, L-Locate)
Sub/Tot => LC   (LC,LE,EC)
LOC => *         ECN => *    TD => *    CC => *     COUNT => *
LOCATION   CC   ECN   TD          TOTAL COUNT       T/DIS COUNT      USER ADJUST
--------  ----  ---   --          -----------       -----------      -----------
ADRNMOAX  GS    808  T1                6.0000            6.0000           0.0000
ADRNMOAX  GS    809  T1                6.0000            6.0000           0.0000
ADRNMOAX  GS             SUB         12.0000           12.0000           0.0000
ADRNMOAX  IG    808  T1                1.0000            1.0000           0.0000
ADRNMOAX  IG    809  T1                1.0000            1.0000           0.0000
ADRNMOAX  IG             SUB          2.0000            2.0000           0.0000
ADRNMOAX  K1    808  T1               15.0000           15.0000           0.0000
ADRNMOAX  K1    809  T1               15.0000           15.0000           0.0000
ADRNMOAX  K1             SUB         30.0000           30.0000           0.0000
ADRNMOAX  MJ    808  T1               71.0000           71.0000           0.0000
ADRNMOAX  MJ    809  T1               71.0000           71.0000           0.0000
ADRNMOAX  MJ             SUB        142.0000          142.0000           0.0000
ADRNMOAX  NA    808  T1                7.0000            7.0000           0.0000
ADRNMOAX  NA    809  T1                7.0000            7.0000           0.0000
```

Figure 5-36. Analyze/Adjust Usage Screen With the LC Sub/Tot Specified

Figure 5-37 shows a Analyze/Adjust Usage screen when viewing usage data and using the LE Sub/Tot option.

```
----------------------  T/DIS-CES ANALYZE/ADJUST USAGE  ---  ROW 1 FROM 13896
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, A-Add, C-Change, D-Delete, L-Locate)
Sub/Tot => LE   (LC,LE,EC)
LOC => *         ECN => *    TD => *    CC => *     COUNT => *
LOCATION  ECN  TD   CC          TOTAL COUNT     T/DIS COUNT       USER ADJUST
--------  ---  ---  ----        -----------     -----------       -----------
ADRNMOAX  808       XA              7.0000          7.0000            0.0000
ADRNMOAX  808   T1  GS              6.0000          6.0000            0.0000
ADRNMOAX  808   T1  IG              1.0000          1.0000            0.0000
ADRNMOAX  808   T1  K1             15.0000         15.0000            0.0000
ADRNMOAX  808   T1  MJ             71.0000         71.0000            0.0000
ADRNMOAX  808   T1  NA              7.0000          7.0000            0.0000
ADRNMOAX  808   T1  SG              1.0000          1.0000            0.0000
ADRNMOAX  808   T1  SN             17.0000         17.0000            0.0000
ADRNMOAX  808           SUB       125.0000        125.0000            0.0000
ADRNMOAX  809   T1  GS              6.0000          6.0000            0.0000
ADRNMOAX  809   T1  IG              1.0000          1.0000            0.0000
ADRNMOAX  809   T1  K1             15.0000         15.0000            0.0000
ADRNMOAX  809   T1  MJ             71.0000         71.0000            0.0000
ADRNMOAX  809   T1  NA              7.0000          7.0000            0.0000
```

Figure 5-37. Analyze/Adjust Usage Screen With the LE Sub/Tot Specified

Figure 5-38 shows a Analyze/Adjust Usage screen when viewing usage data and using the EC Sub/Tot option.

```
----------------------  T/DIS-CES ANALYZE/ADJUST USAGE  ---  ROW 1 FROM 12451
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, A-Add, C-Change, D-Delete, L-Locate)
Sub/Tot => EC   (LC,LE,EC)
LOC => *         ECN => *    TD => *    CC => *     COUNT => *
ECN TD   CC  LOCATION           TOTAL COUNT     T/DIS COUNT       USER ADJUST
--- --- ---- --------           -----------     -----------       -----------
804     GS   ELSNMORS                2.0000          2.0000            0.0000
804     GS   KKVLMOMO                4.0000          4.0000            0.0000
804     GS   OEVLMORS                3.0000          3.0000            0.0000
804     GS   PPBLMOSU                8.0000          8.0000            0.0000
804     GS   SDLIMOTA               14.0000         14.0000            0.0000
804     GS   STJSMODN                2.0000          2.0000            0.0000
804     GS   VNBRMORS                6.0000          6.0000            0.0000
804     GS             SUB          39.0000         39.0000            0.0000
804     IG   KKVLMOMO                7.0000          7.0000            0.0000
804     IG   OEVLMORS                2.0000          2.0000            0.0000
804     IG   PPBLMOSU                4.0000          4.0000            0.0000
804     IG   SDLIMOTA                8.0000          8.0000            0.0000
804     IG   VNBRMORS                4.0000          4.0000            0.0000
804     IG             SUB          25.0000         25.0000            0.0000
```

Figure 5-38. Analyze/Adjust Usage Screen With the EC Sub/Tot Specified

5.3.3 Editing Usage on the Analyze/Adjust Usage Screen

Options are provided on the Analyze/Adjust Usage screen that allow you to edit the usage associated with a record. Follow the procedures below to edit usage data:

1. Enter the code that corresponds to the action you want to perform.
2. Enter a location in the LOC field.
3. Enter the ECN code in the ECN field.
4. Enter the technology descriptor in the TD field.
5. Enter the class code in the CC field.
6. Enter the usage count in the Count field if you selected *add* or *change*.
7. Press the ENTER key.

The record is processed and becomes the first line of data displayed on your screen (see Figure 5-39). A message informing you that the update was successful or unsuccessful is displayed in the upper right corner of the screen. If TDIS-CES was unable to process your request, press the HELP key to determine the problem with your data. After an update, the amount in the TDIS Count and User Adjust fields add up to the amount in the Total Count field.

You cannot add a new record unless it has corresponding complement data for the location, ECN, and TD level you may introduce new class codes.

Values you enter when editing a record are retained after TDIS-CES has finished processing your request, except the value you made in the Action field.

If you have added a record, the Total Count and User Adjust fields display the count just entered.

Figure 5-39 shows a sample of adding usage.

```
----------------------  T/DIS-CES ANALYZE/ADJUST USAGE  --  SUCCESSFUL ADD
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (V-View, P-Print, A-Add, C-Change, D-Delete, L-Locate)
Sub/Tot =>      (LC,LE,EC)
LOC => ADRNMOAX  ECN => 808  TD => T1   CC => KG    COUNT => = 1.225
LOCATION  ECN  TD    CC        TOTAL COUNT      T/DIS COUNT       USER ADJUST
--------  ---  ---  ----       -----------      -----------       -----------
ADRNMOAX  808  T1   KG              1.2250           0.0000            1.2250
ADRNMOAX  808  T1   K1             24.0000          24.0000            0.0000
ADRNMOAX  808  T1   MJ             80.0016          80.0016            0.0000
ADRNMOAX  808  T1   NA             15.9984          15.9984            0.0000
ADRNMOAX  808  T1   SG              1.1424           1.1424            0.0000
ADRNMOAX  808  T1   SN             38.8560          38.8560            0.0000
ADRNMOAX  809  T1   GS              6.8568           6.8568            0.0000
ADRNMOAX  809  T1   IG              1.1424           1.1424            0.0000
ADRNMOAX  809  T1   K1             24.0000          24.0000            0.0000
ADRNMOAX  809  T1   MJ             80.0016          80.0016            0.0000
ADRNMOAX  809  T1   NA             15.9984          15.9984            0.0000
ADRNMOAX  809  T1   SG              1.1424           1.1424            0.0000
ADRNMOAX  809  T1   SN             38.8560          38.8560            0.0000
ADRNMOAX  814       GS              1.1424           1.1424            0.0000
```

Figure 5-39. Adding Usage Data

If you have changed a record, the Total Count field displays the amount you entered, the TDIS Count field displays the original count, and the User Adjust field displays the amount in the Total Count field minus the amount in the TDIS Count field. Figure 5-40 shows a sample of changing usage.

```
----------------------  T/DIS-CES ANALYZE/ADJUST USAGE  --  SUCCESSFUL CHANGE
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (V-View, P-Print, A-Add, C-Change, D-Delete, L-Locate)
Sub/Tot =>      (LC,LE,EC)
LOC => ADRNMOAX  ECN => 808  TD => T1   CC => KG    COUNT => = 1.4435
LOCATION  ECN  TD    CC        TOTAL COUNT      T/DIS COUNT       USER ADJUST
--------  ---  ---  ----       -----------      -----------       -----------
ADRNMOAX  808  T1   KG              1.4435           0.0000            1.4435
ADRNMOAX  808  T1   K1             24.0000          24.0000            0.0000
ADRNMOAX  808  T1   MJ             80.0016          80.0016            0.0000
ADRNMOAX  808  T1   NA             15.9984          15.9984            0.0000
ADRNMOAX  808  T1   SG              1.1424           1.1424            0.0000
ADRNMOAX  808  T1   SN             38.8560          38.8560            0.0000
ADRNMOAX  809  T1   GS              6.8568           6.8568            0.0000
ADRNMOAX  809  T1   IG              1.1424           1.1424            0.0000
ADRNMOAX  809  T1   K1             24.0000          24.0000            0.0000
ADRNMOAX  809  T1   MJ             80.0016          80.0016            0.0000
ADRNMOAX  809  T1   NA             15.9984          15.9984            0.0000
ADRNMOAX  809  T1   SG              1.1424           1.1424            0.0000
ADRNMOAX  809  T1   SN             38.8560          38.8560            0.0000
ADRNMOAX  814       GS              1.1424           1.1424            0.0000
```

Figure 5-40. Changing Usage Data

If you have deleted a record, the Total Count field changes to zero, the TDIS Count field displays the original count, and the User Adjust field displays the amount in the Total Count field minus the amount in the TDIS Count field. The usage count associated with the deleted record is displayed in the Count field. Figure 5-41 shows a sample of deleting usage.

```
----------------------  T/DIS-CES ANALYZE/ADJUST USAGE  --  SUCCESSFUL DELETE
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, A-Add, C-Change, D-Delete, L-Locate)
Sub/Tot =>      (LC,LE,EC)
LOC => ADRNMOAX  ECN => 808  TD => T1   CC => KG    COUNT => = 1.4435
LOCATION  ECN  TD    CC        TOTAL COUNT      T/DIS COUNT       USER ADJUST
--------  ---  ---  ----       -----------      -----------       -----------
ADRNMOAX  808  T1   KG              0.0000           0.0000            0.0000
ADRNMOAX  808  T1   K1             24.0000          24.0000            0.0000
ADRNMOAX  808  T1   MJ             80.0016          80.0016            0.0000
ADRNMOAX  808  T1   NA             15.9984          15.9984            0.0000
ADRNMOAX  808  T1   SG              1.1424           1.1424            0.0000
ADRNMOAX  808  T1   SN             38.8560          38.8560            0.0000
ADRNMOAX  809  T1   GS              6.8568           6.8568            0.0000
ADRNMOAX  809  T1   IG              1.1424           1.1424            0.0000
ADRNMOAX  809  T1   K1             24.0000          24.0000            0.0000
ADRNMOAX  809  T1   MJ             80.0016          80.0016            0.0000
ADRNMOAX  809  T1   NA             15.9984          15.9984            0.0000
ADRNMOAX  809  T1   SG              1.1424           1.1424            0.0000
ADRNMOAX  809  T1   SN             38.8560          38.8560            0.0000
ADRNMOAX  814       GS              1.1424           1.1424            0.0000
```

Figure 5-41. Deleting Usage Data

6. The Circuit Equipment Study

This section discusses how to execute the basic study and how to verify the results. The following screens are described in this section:

1. Execute Basic Study
2. Basic Study Report
3. Report Hardcopy
4. Verify Study Results

You use the execute basic study screen to execute the study. After you have executed the study, you can view any warnings, obtain a hardcopy, and verify the results.

At the completion of the study, you may want to return to the Analyze/Adjust Investment screen in the After mode and examine how the investment was used in the Basic Study. You may see that further table changes are required.

6.1 Execute Basic Study Screen

This screen allows you to begin processing the basic study. Use this screen when you want to execute a study. When this process is executed:

1. The TDIS-CES usage and investment bases are correlated
2. Any necessary investment distributions are performed
3. The investment data is allocated to separations categories based on the distribution of usage to separations categories.

Several user tables are provided to increase the accuracy of the study and provide the necessary company-specific information.

> **NOTE —** You should never execute the basic study in more than one screen.

6.1.1 Accessing the Execute Basic Study Screen

Use either of the following methods to access the Execute Basic Study screen:

- From the TDIS-CES Main Menu, enter **s** in the Option field.
- From any screen in TDIS-CES, enter **=s** in the Command field.

The Execute Basic Study screen is displayed (see Figure 6-1).

NOTE — Depending on when you are accessing this screen, you may or may not cause the Status screen to display. If, when you accessed this table, TDIS-CES contains changes to tables that affect the accuracy of the data contained on this table since the last study run, a status screen is displayed after you have accessed this screen.

This Status screen identifies tables with changes that affect this function only, and the action you should take to incorporate those changes into the data displayed on this screen. Section 10 provides more information about the Status screen.

```
----------------------  T/DIS-CES EXECUTE BASIC STUDY  ----------------------
COMMAND ===>

STUDY MODE ==> E ( E -ECN Level, D -Detailed Level)      STUDY AREA: MO
LIST TABLES => Y  (Y/N)                                    DRMA DATE: 10/90
                                                          T/DIS DATE: 08/08/92
                                                         CXR CC DATA: F
                                                         DATE & TIME STAMP
   -  Load MO Databases
   -  Perform 800 Distribution, Investment Without
      Usage Distribution, and ECN Technology Split
   -  Calculate Average Cost per Working Subdivision
   -  Accumulate Categorized Investment
   -  Distribute '4.NRP', '4.UNKNOWN', Carrier,
      Power, and ICAC
   -  Create Basic Study Results Databases             93/10/01-13:35:22
   -  Processing Complete
```

Figure 6-1. Execute Basic Study Screen

6.1.2 Execute Study Screen Field Definitions

Table 6-1 provides a description of each field on the Execute Basic Study screen.

Table 6-1. Execute Basic Study Screen Field Descriptions

Field	Description
Study Mode	This field identifies whether TDIS-CES is going to perform an ECN-level basic study, or a detailed-level basic study. Selecting E causes TDIS-CES to develop categorized investment by handling each ECN at the study area level. Selecting D causes TDIS-CES to develop categorized investment by matching investment and usage at the location and ECN level, and spreading any unmatched investment among the location and ECNs with corresponding usage.
List Tables	This field allows you to obtain a list of user tables TDIS-CES accessed during the study process. Selecting Y generates the list that appears on the Basic Study report. Selecting N does not generate a list.
Study Area	This field identifies the study area for which the study is run.
DRMA Date	This field identifies the database date of the DRMA investment the study is using.
TDIS Date	This field identifies the control date of the TDIS Usage the study is using.
CXR CC Data	This field identifies whether facilities (F), normalized facilities (N), or normalized equipment (E) data is being used.

NOTE — The CXR CC Data field will automatically be populated with whatever option you selected for the Usage Load. (See Section 3.2 for more information about Usage Load.)

The remainder of the screen provides a list of the processes TDIS-CES is doing to complete the study. Each step of the process is described in Section 6.4, Basic Study Processing Description. As TDIS-CES begins each step, a date and time stamp appears next to the step (see Figure 6-2). When TDIS-CES has completed the last step, press ENTER to display the Basic Study Report.

If you change the data in any of the User Tables accessed during the study process you must rerun the basic study to include the change.

```
----------------------  T/DIS-CES EXECUTE BASIC STUDY  ----------------------
COMMAND ===>

STUDY MODE ==> E  ( E -ECN Level, D -Detailed Level)     STUDY AREA: MO
LIST TABLES => Y   (Y/N)                                   DRMA DATE: 10/90
                                                          T/DIS DATE: 08/08/92
                                                         CXR CC DATA: F
                                                         DATE & TIME STAMP
   -  Load MO Databases                                  93/10/07-11:16:50
   -  Perform 800 Distribution, Investment Without
      Usage Distribution, and ECN Technology Split       93/10/07-11:17:40
   -  Calculate Average Cost per Working Subdivision     93/10/07-11:17:46
   -  Accumulate Categorized Investment                  93/10/07-11:17:47
   -  Distribute '4.NRP', '4.UNKNOWN', Carrier,
      Power, and ICAC                                    93/10/07-11:17:58
   -  Create Basic Study Results Databases               93/10/07-11:18:26
   -  Processing Complete                                93/10/07-11:18:51
```

Figure 6-2. Execute Study Screen With Time/Date Stamp

If TDIS-CES encounters an error during the study process that stops the study process, the Basic Study Report screen is automatically displayed. You must resolve the error and re-execute the study from the Execute Basic Study screen. The CXR CC DATA field is displayed as a remind of which mode of load was used.

6.1.3 Basic Study Report Screen

The Basic Study Report is composed of six subreports. Each report is listed below in the order in which they are displayed:

1. Location Investment Totals Report
2. Investment and Usage ECN Match Report
3. Location/ECN Level Investment Without Usage Report
4. ECN Level Investment Without Usage Report
5. Pseudo Category 4.UNKNOWN Audit Report
6. Basic Study Processing Messages Report

You can obtain the first subreport by selecting ENTER off the Execute Basic Study screen. If an error caused TDIS-CES to stop the study process, the Basic Study Processing Messages Report is displayed automatically. To bypass this screen, press RETURN.

Identified on each subreport are the following:

1. Your company
2. Report name
3. Study area
4. Date of TDIS data
5. Date of usage load
6. Program name
7. Date of study run
8. Page number
9. Date of DRMA data
10. Date of investment load
11. Study mode requested when the run was initiated

6.1.3.1 Location Investment Totals Subreport

This subreport (Figure 6-3) shows the amount of investment with usage, and the amount of investment without usage for each location. This report excludes 800, Central Stock, and Power investments.

```
BROWSE -- TDISD.AR.YDCS0SR ------------------------ LINE 00000000 COL 001 080
COMMAND ===>                                                SCROLL ===> CSR
******************************** TOP OF DATA ********************************

                      * * * * D R P - T D I S * * * *
COMPANY: SW 5.0 EQP S7 EQP ONLY                    PROGRAM: YDCS0   R-5.0
REPORT: T/DIS-CES BASIC STUDY REPORT               RUN DATE: 09/13/93 17:41:45
STUDY AREA: AR                                     PAGE:         1
T/DIS DATE: 08/08/92                               DRMA DATE: 10/90
USAGE LOAD: 92/12/31-12:52:52     STUDY MODE: E    INV LOAD: 93/09/07-17:06:37

                    LOCATION INVESTMENT TOTALS REPORT
                (EXCLUDING 800, CENTRAL STOCK, & POWER INV.)

    LOCATION  TOTAL IWU   TOTAL INU       LOCATION  TOTAL IWU   TOTAL INU

    ======== =========== ===========      ======== =========== ===========

    ALMAARXA           0           0      ALTHARMA      42,574     223,829
    ALTHARU6           0     305,860      ANCHARNN           0      11,103
    ARCYARMA      33,436     129,140      ARCYARU3           0      53,327
    ARKDARMA     273,763     300,281      ARKDARQ3           0     591,168
```

Figure 6-3. Location Investment Totals Subreport

Table 6-2 provides a description of each field on this subreport.

Table 6-2. Location Investment Totals Subreport Field Definitions

Field	Descriptions
Location	Identifies the location found in usage and/or investment data bases.
Total IWU	Identifies how much ECN investment had usage for the corresponding location.
Total INV	Identifies how much ECN investment had no usage for the corresponding location.

6.1.3.2 Investment and Usage ECN Match Subreport

This subreport (Figure 6-4) shows an overview of how usage and investment data looks for an ECN. Listed below are the two lines of data this report provides for each ECN and TD combination:

1. The first row corresponds to the usage field identifiers
2. The second row corresponds to the investment field identifiers.

```
BROWSE -- TDISD.AR.YDCS0SR ------------------------ LINE 00000344 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
                      * * * * D R P - T D I S * * * *
COMPANY: SW 5.0 EQP S7 EQP ONLY                    PROGRAM: YDCS0   R-5.0
REPORT: T/DIS-CES BASIC STUDY REPORT               RUN DATE: 09/13/93 17:41:45
STUDY AREA: AR                                     PAGE:         7
T/DIS DATE: 08/08/92                               DRMA DATE: 10/90
USAGE LOAD: 92/12/31-12:52:52     STUDY MODE: E    INV LOAD: 93/09/07-17:06:37

                   INVESTMENT AND USAGE ECN MATCH REPORT

 ECN-TD  TOTAL USAGE    HC-MSG USAGE   HC-PL USAGE   HICAP CMPL.  NON-HICAP
 ====== ============== ============== ============== =========== ===========
         TOTAL INV   TOTAL IWU   TOTAL INU   $C-STOCK   TOTAL $800  TOTAL ECNSP
        =========== =========== =========== =========== =========== ============
 802           231.986          0.000          0.000           0         364
              1,896           0       1,896          0           0           0
 803             0.000          0.000          0.000           0          18
              9,040           0       9,040          0           0           0
 804         2,083.978          0.000          0.000           0       3,160
           4,046,495   1,826,709   2,041,238     147,931     178,548           0
 808         6,374.942          0.000          0.000           0     260,430
```

Figure 6-4. Investment and Usage ECN Match Subreport

Table 6-3 provides a description of each field on this subreport.

Table 6-3. Investment and Usage ECN Match Subreport Field Definitions

Field	Description
ECN-TD	Identifies the ECN and TD.
Total Usage	Identifies the total count of working subdivision usage.
HC-MSG Usage	Identifies the total count of HICAP message working subdivision usage. (This count is determined using the HICAP Class Code table).
HC-PL Usage	Identifies the total count of private line working subdivision usage. (This count is determined using the HICAP Class Code table).
HICAP CMPL	Identifies the total subdivision count of working plus spare for HICAP complements. (This count is determined using the HICAP Group Codes table during usage load).
Non-HICAP	Identifies the total subdivision count of working plus spare for non-HICAP complements. (This count is determined using the HICAP Group Codes table during usage load).
Total INV	Identifies the total investment.
Total IWU	Identifies the total investment with usage at the location/ECN level.
Total INU	Identifies the total investment with no usage at the location/ECN level.
$C-Stock	Identifies the amount of central stock investment. This amount is already included in the INU and Total INV fields.
Total $800	Identifies how much investment was placed in this ECN during the 800 spreads.
Total ECNSP	Identifies how much investment was added in or subtracted from the total by ECN splits.

6.1.3.3 Location/ECN Level Investment Without Usage Subreport

This subreport (Figure 6-5) identifies how much investment is not included in the categorized results when you request a detailed-level basic study. These investments are not included because there is no corresponding usage for them. This report excludes 800, Central Stock, and Power investments.

```
BROWSE -- TDISD.AR.YDCS0SR ------------------------ LINE 00000520 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
                      * * * * D R P - T D I S * * * *
COMPANY: SW 5.0 EQP S7 EQP ONLY                    PROGRAM: YDCS0   R-5.0
REPORT: T/DIS-CES BASIC STUDY REPORT               RUN DATE: 09/13/93 17:41:45
STUDY AREA: AR                                     PAGE:        10
T/DIS DATE: 08/08/92                               DRMA DATE: 10/90
USAGE LOAD: 92/12/31-12:52:52     STUDY MODE: E    INV LOAD: 93/09/07-17:06:37

   LOCATION/ECN LEVEL INVESTMENT WITHOUT USAGE REPORT
      (EXCLUDING 800, CENTRAL STOCK, & POWER INV.)

 LOCATION  ECN-TD  TOTAL INV.   NON-HC INV.  HICAP P.L.
 ========  ======  ===========  ===========  ===========
 ALTHARMA  841           2,008
 ALTHARMA  870          57,893
 ARCYARMA  822              68
 ARCYARMA  839           8,357
 ARCYARMA  841           2,170
 ARCYARMA  870          47,297
 ARKDARMA  835             441
 ARKDARMA  841           1,667
```

Figure 6-5. Location/ECN Level Investment Without Usage Subreport

Table 6-4 provides a description of each field on this subreport.

Table 6-4. Location/ECN Level Investment Without Usage Subreport Field Definitions

Field	Description
Location	Identifies the location.
ECN-TD	Identifies the ECN and TD.
Total INV	Identifies the amount of investment with no usage.
Non-HC INV	Identifies the amount of non-HICAP investment for which no non-HICAP usage existed.
HICAP PL	Identifies the amount of HICAP private line investment for which there was no HICAP private line usage.

6.1.3.4 ECN Level Investment Without Usage Subreport

This subreport (Figure 6-6) shows investments that are not included in the results when you initiate an ECN-level basic study. These investments are not included because there is no corresponding usage for them. This report excludes 800, Central Stock, and Power investments. This must be corrected to bring the study into balance.

```
BROWSE -- TDISD.AR.YDCS0SR ------------------------ LINE 00001561 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
                      * * * * D R P - T D I S * * * *
COMPANY: SW 5.0 EQP S7 EQP ONLY                    PROGRAM: YDCS0   R-5.0
REPORT: T/DIS-CES BASIC STUDY REPORT               RUN DATE: 09/13/93 17:41:45
STUDY AREA: AR                                     PAGE:        28
T/DIS DATE: 08/08/92                               DRMA DATE: 10/90
USAGE LOAD: 92/12/31-12:52:52     STUDY MODE: E    INV LOAD: 93/09/07-17:06:37

  ECN LEVEL INVESTMENT WITHOUT USAGE REPORT
(EXCLUDING 800, CENTRAL STOCK, & POWER INV.)

ECN-TD  TOTAL INV.   NON-HC INV.  HICAP P.L.
======  ===========  ===========  ===========
803           9,040
817       2,221,685
820           2,421
822           7,224
827          87,955
830          93,422
831          67,973
832             874
```

Figure 6-6. ECN Level Investment Without Usage Subreport

Table 6-5 provides a description of each field on this subreport.

Table 6-5. ECN Level Investment Without Usage Subreport Field Definitions

Field	Description
ECN-TD	Identifies the ECN and TD.
Total INV	Identifies the amount of investment with no usage.
Non-HC INV	Identifies the amount of non-HICAP investment for which no non-HICAP usage existed.
HICAP PL	Identifies the amount of HICAP private line investment for which there was no HICAP private line usage.

6.1.3.5 Pseudo Category 4.UNKNOWN Audit Subreport

This subreport (Figure 6-7) identifies in detail the investment that was placed in the 4.UNKNOWN category. The investment identified here is spread among all categories. The Class Codes identified on this report should be added to the Class Code to Category (DRCAT) Table to assure that the investment goes to the proper category and is not spread.

```
BROWSE -- TDISD.AR.YDCS0SR ------------------------ LINE 00001613 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
                      * * * * D R P - T D I S * * * *
COMPANY: SW 5.0 EQP S7 EQP ONLY                    PROGRAM: YDCS0   R-5.0
REPORT: T/DIS-CES BASIC STUDY REPORT               RUN DATE: 09/13/93 17:41:45
STUDY AREA: AR                                     PAGE:        29
T/DIS DATE: 08/08/92                               DRMA DATE: 10/90
USAGE LOAD: 92/12/31-12:52:52     STUDY MODE: E    INV LOAD: 93/09/07-17:06:37

 PSEUDO CATEGORY 4.UNKNOWN AUDIT REPORT

  CC   OCCURRENCES  INVESTMENT
 ====  ===========  ===========
 ABXA           99      375,017
 AB03            2       15,165
 ACXA           37       45,226
 AJXA           59      128,176
 AJXI           42       16,616
 AJ03            1        3,013
 AKXA           17        4,271
 ALXA            2        7,029
 ANXA           30       90,131
```

Figure 6-7. Pseudo Category 4.UNKNOWN Audit Subreport Field Definitions

Table 6-6 provides a description of each field on this report.

Table 6-6. Pseudo Category 4.UNKNOWN Audit Subreport Field Definitions

Field	Description
CC	Identifies each class code.
OCCURRENCES	Identifies how many times the corresponding class code was found.
INVESTMENT	Identifies the amount of investment involved.

6.1.3.6 Basic Study Processing Messages Subreport

This subreport (Figure 6-8) displays study processing messages and problems encountered during the study process.

```
BROWSE -- TDISD.AR.YDCS0SR ------------------------ LINE 00001720 COL 001 080
COMMAND ===>                                            SCROLL ===> CSR
                      * * * * D R P - T D I S * * * *
COMPANY: SW 5.0 EQP S7 EQP ONLY                    PROGRAM: YDCS0   R-5.0
REPORT: T/DIS-CES BASIC STUDY REPORT               RUN DATE: 09/13/93 17:41:45
STUDY AREA: AR                                     PAGE:        31
T/DIS DATE: 08/08/92                               DRMA DATE: 10/90
USAGE LOAD: 92/12/31-12:52:52     STUDY MODE: E    INV LOAD: 93/09/07-17:06:37

 BASIC STUDY PROCESSING MESSAGES
 ==============================
 NO-800 SPREAD TABLE NOT FOUND OR EMPTY.
 HICAP CLASS CODES & HICAP GROUP CODES NOT USED IN NORMALIZED USAGE STUDY.
 INVESTMENT ROUNDING LOSS DURING ECN 800 INV SPREAD  =            $3
 INVESTMENT ROUNDING LOSS DURING INV NO USAGE SPREAD =            $1CR
 INVESTMENT ROUNDING LOSS DURING ECN TECHNOLOGY SPLIT=            $0
 STUDY AREA LEVEL ECN COSTS PER WORKING SUBDIVISION USED.
 CARRIER DISTRIBUTION TABLE NOT FOUND OR EMPTY.
  ALL SEP. CATS. CONSIDERED VALID EXCEPT 4.UNKNOWN AND 4.NRP.
 INVESTMENT ROUNDING LOSS DURING NRP/UNKNOWN SPREAD  =          $295
 INVESTMENT ROUNDING LOSS DURING POWER INV SPREAD    =            $0
```

Figure 6-8. Basic Study Processing Messages Subreport

6.2 Verify Study Results Screen

This screen provides the results of the study. Results are produced by the Basic Study. These results show the final categorized investment amounts. You can view the categorized investment totals to locate data problems and verify the integrity of the results. The data represented can be for all locations, or a single location or group of locations.

6.2.1 Accessing the Verify Study Results Screen

Use either of the following methods to access the Verify Study Results screen:

- Press ENTER on the Basic Study Report screen.
- Enter **=r** in the Option field on the Main Menu.

The Verify Study Results panel (Figure 6-9) is displayed.

NOTE — Depending on when you are accessing this screen, you may or may not cause the Status screen to display. If, when you accessed this table, TDIS-CES contains changes to tables that affect the accuracy of the data contained on this table since the last study run, a status screen is displayed after you have accessed this screen.

This Status screen identifies tables with changes that affect this function only, and the action you should take to incorporate those changes into the data displayed on this screen. Section 10 provides more information about the Status screen.

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/09/27-14:15:58 BY USER PHQTDS6  --
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => N (Y/N)
Sub/Tot =>    (LE,LS,ES)
DATA FORMAT =>   (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: E
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
SEP CATGRY ECN TD  LOCATION  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
```

Figure 6-9. Sample Basic Study Results

6.2.2 Verify Study Results Screen Field Definitions

The first line of the Verify Study Results screen displayed the user id of the person that last ran the Basic Study. The date and time of the study run are also displayed on this line. Table 6-7 contains a description of each field on the Verify Study Results screen.

Table 6-7. Verify Study Results Screen Field Descriptions

Field	Description
Action	This field tells TDIS-CES what to do. See Section 2.8 for a description of the Action field. The printout resulting from the Print action includes a list of user tables containing changes that affect the data associated with this function.
Based on Location Table	Entering **y** in this field causes TDIS-CES to provide data on a report only for the locations listed in the Selected Location table. To change locations referenced when selecting **y**, you must change the location table and re-enter the results function. Entering **n** in this field causes TDIS-CES to provide data on a report for all locations. You can specify a partial location on line six when selecting **n** when you selected data format number 3. Figure 6-17 shows an example of basic study results for selected locations.
Sub/Tot	This field is used for displaying subtotals and a grand total line on the display. Valid entries are **ES**, **LS**, **LE**, or a blank. Blank No totals are displayed **ES** Subtotals for separation categories within an ECN are displayed. This can only be used for data formats 2 and 3. **LS** Subtotals for separation categories within a location are displayed. This can only be used with data format 3. **LE** Subtotals for ECNs within a location are displayed. This can only be used with Data Format **3**. Subtotals are identified by the word **SUB** on the appropriate line. The order the SEP CATGRY, ECN, TD, and LOCATION headers appear in the Verify Study Results panel will change to reflect which subtotal format you selected.

Table 6-7. Verify Study Results Screen Field Descriptions (Continued)

Field	Description
Data Format	This field identifies the type of data the screen displays. A description of each option follows: If you select — TDIS CES displays investments for: 1 (2230) — The separations category and the investments, sorted by separations category (see Figure 6-10). 2 (CAT/ECN) — The separations category, and the ECN with the corresponding investments. Data is sorted by category and ECN (see Figures 6-11 and 6-12). 3 (CAT/ECN/TD/LOC) — The separations category, ECN, location, and TD with the corresponding investments. Data is sorted by category, ECN, TD, and LOC (see Figures 6-13, 6-14, 6-15, and 6-16).
Study Mode	This field identifies the format in which you ran the Basic Study. The code that corresponds to the option you entered on the Execute Basic Study screen in the Study Mode field is displayed in this field.
CAT, TD, LOC	CAT identifies the separations category. On line 6 you can type over the asterisk to search for specific data. On line 7 this field is a column heading that identifies the data displayed beneath it. The TD and LOC fields are described in Section 2.10.
ECN	This field identifies the equipment category number. On line 6 you can type over the asterisk to search for results associated with a specific ECN. Use this field to display basic study results for ICAC investments by typing over the asterisk with **ICA**. On line 7 this field is a column heading that identifies the data displayed beneath it.
INV	This field allows you to specify an investment amount. Acceptable values include any integer between 0 and 999,999,999. You must specify a logical operator. Using logical operators is described in Section 2.11. If an <,>, or = is specified, only non-ICAC investments are processed. To process ICAC, you must use an asterisk.
TOTAL INVEST	This field identifies the total investment. This amount comes from base investment plus the spreads that occurred. The amounts in the BASE INVEST, UNKNOWN/NRP, and Carrier Dist fields, and the Power and ICAC investments add up to this amount.
BASE INVEST	This field identifies how much of the total investment is derived from the post-basic study base investment table.

Table 6-7. Verify Study Results Screen Field Descriptions (Continued)

Field	Description
UNKNOWN/NRP	This field identifies how much of the total investment came from the post categorized distribution of two categories: Unknown, and NRP. Dollars in the Total column in the category 4UNK/NRP mean the study process found no other usage at a location in the same ECN to dissolve this category.
CARRIER DIST	This field shows how carrier multiplexor investment was spread back to a category based on the carrier distribution table. A negative value means that the investment was removed from the category/ECN/TD/LOC. A positive value means that the investment was added to a category/ECN/TD/LOC. It is important to note here that these spreads are controlled by the carrier distribution table and are constrained to locations. For example, if the process has been instructed to dissolve T-CXR line like T-CXR term and there is no T-CXR term at the location, the investment will not dissolve. Either the investment must be moved or some T-CXR term usage must be provided at the location, either by supplemental usage or via the usage adjustment screen.

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/09/27-14:15:58 BY   ROW 1 FROM 26
COMMAND ===>                                                    SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => N (Y/N)
Sub/Tot =>    (LE,LS,ES)
DATA FORMAT => 1 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: E
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
SEP CATGRY ECN TD  LOCATION  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
---------- --- --- --------  ------------ ----------- ------------ ------------
4.CXR                        154,718,247 144,493,360    4,928,981            0
4.NRP                                  1  36,545,432  -36,545,431            0
4.UNKNOWN                              0  44,563,320  -44,563,320            0
4.WBISERE                     16,370,429  10,074,207    4,193,772            0
4.WBISERI                     11,652,368   7,490,575    2,905,284            0
4.WBISERS                      3,108,231   2,326,183      673,225            0
4.WBISRAE                          3,199       2,135          798            0
4.WBISRAI                         85,246      23,362        7,613            0
4.WBSTERE                        175,959      79,487       31,568            0
4.WBSTERI                         56,145      33,492       14,067            0
4.WBSTRAE                        274,988     174,439       66,533            0
4.WBSTRAI                      1,739,155   1,114,925      456,680            0
4.WBSTRAL                        889,693     622,661      217,984            0
```

Figure 6-10. Sample 2230 Report

The last two lines of the 2230 report show totals. The Total INV line is the sum of the values in the Total Invest field for each line in the 2230 report. The DRMA INV line shows the total investment amount received from DRMA.

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/09/27-14:15:58 BY  ROW 1 FROM 603
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => N (Y/N)
Sub/Tot =>    (LE,LS,ES)
DATA FORMAT => 2 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: E
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
SEP CATGRY ECN TD  LOCATION  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
---------- --- --- --------  ------------ ----------- ------------ ------------
4.CXR      010                   820,481           0            0            0
4.CXR      808                 1,538,475   1,151,008      387,467            0
4.CXR      809                 2,849,721   2,069,192      780,529            0
4.CXR      810               129,427,788 129,347,528       80,260            0
4.CXR      813                 1,696,524   1,429,974      266,550            0
4.CXR      814                 7,763,584   5,737,917    2,025,667            0
4.CXR      834                 2,923,218   2,510,067      413,151            0
4.CXR      837                   260,471     203,202       57,269            0
4.CXR      838                 2,781,971   1,904,713      877,258            0
4.CXR      849                 1,563,599           0            0            0
4.CXR      893                   106,100      84,182       21,918            0
4.CXR      894                    74,489      55,577       18,912            0
4.CXR      899                    49,441           0            0            0
```

Figure 6-11. Sample Cat/ECN Report

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/08/27-10:00:58 BY   ROW 1 FROM 19
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => N (Y/N)
Sub/Tot => ES (LE,LS,ES)       Sub-totals by Sep. Category within ECN
DATA FORMAT => 2 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: D
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
ECN SEP CATGRY TD  LOCATION  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
--- ---------- --- --------  ------------ ----------- ------------ ------------
810 4.13                      18,870,276  18,870,276            0            0
810             ---------     18,870,276  18,870,276            0            0
849 4.13                         145,372           0            0            0
849             ---------        145,372           0            0            0
876 4.12MSGREL                    39,094      39,094            0            0
876             ---------         39,094      39,094            0            0
899 4.12MSGREL                         5           0            0            0
899             ---------              5           0            0            0
950 4.12MSGREL                    38,377           0            0            0
950 4.13                           2,898           0            0            0
950             ---------         41,275           0            0            0
962 4.12MSGREL                    33,067           0            0            0
962 4.13                         167,760           0            0            0
```

Figure 6-12. Sample Cat/ECN Report with the ES Sub/Tot Option Selected

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/09/27-14:15:58   ROW 1 FROM 41492
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => N (Y/N)
Sub/Tot =>    (LE,LS,ES)
DATA FORMAT => 3 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: E
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
SEP CATGRY ECN TD  LOCATION  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
---------- --- --- --------  ------------ ----------- ------------ ------------
4.CXR      010     BLDLMOGU           455           0            0            0
4.CXR      010     BLFDMOQ0           143           0            0            0
4.CXR      010     BLSPMOCA        66,395           0            0            0
4.CXR      010     BLSPMOU9         1,978           0            0            0
4.CXR      010     CDHLMO51         1,047           0            0            0
4.CXR      010     CHFDMO52         4,681           0            0            0
4.CXR      010     CHLCMOMI         2,686           0            0            0
4.CXR      010     CPGRMOED           216           0            0            0
4.CXR      010     CRTHMOFL        11,897           0            0            0
4.CXR      010     ELDNMOEX            20           0            0            0
4.CXR      010     ESSXMOAV            10           0            0            0
4.CXR      010     EURKMO53             3           0            0            0
4.CXR      010     FLTNMOMI            40           0            0            0
```

Figure 6-13. Sample Cat/ECN/TD/Loc Report

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/08/27-10:00:58 BY   ROW 1 FROM 29
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => N (Y/N)
Sub/Tot => LE (LE,LS,ES)       Sub-totals by ECN within Location
DATA FORMAT => 3 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: D
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
LOCATION ECN TD  SEP CATGRY  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
-------- --- --- ----------  ------------ ----------- ------------ ------------
FLRNKYFL 810     4.13          18,870,276  18,870,276            0            0
FLRNKYFL 810     ----------    18,870,276  18,870,276            0            0
FLRNKYFL 849     4.13             145,372           0            0            0
FLRNKYFL 849     ----------       145,372           0            0            0
FLRNKYFL 950     4.13               2,898           0            0            0
FLRNKYFL 950     ----------         2,898           0            0            0
FLRNKYFL 962     4.13             167,760           0            0            0
FLRNKYFL 962     ----------       167,760           0            0            0
FLRNKYFL 963     4.13              40,993           0            0            0
FLRNKYFL 963     ----------        40,993           0            0            0
FLRNKYFL 998     4.13              36,932           0            0            0
FLRNKYFL 998     ----------        36,932           0            0            0
FLRNKYFL --- --- ----------    19,264,231  18,870,276            0            0
```

Figure 6-14. Sample Cat/ECN/TD/Loc Report with the LE Sub/Tot Option Selected

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/09/27-14:15:58 BY  ROW 1 FROM 243
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => Y (Y/N)
Sub/Tot => LS (LE,LS,ES)       Sub-totals by Sep. Category within Location
DATA FORMAT => 3 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: E
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
LOCATION SEP CATGRY ECN TD   TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
-------- ---------- --- ---  ------------ ----------- ------------ ------------
BLFDMOQ0 4.CXR      010              143           0            0            0
BLFDMOQ0 4.CXR      813 T3X        1,600         116        1,484            0
BLFDMOQ0 4.CXR      893            2,291       2,079          212            0
BLFDMOQ0 4.CXR      894           37,245      27,789        9,456            0
BLFDMOQ0 4.CXR      954            1,088           0            0            0
BLFDMOQ0 4.CXR      --- ---       42,367      29,984       11,152            0
BLFDMOQ0 4.NRP      813 T3X            0       1,713       -1,713            0
BLFDMOQ0 4.NRP      893                0      30,583      -30,583            0
BLFDMOQ0 4.NRP      894                0     408,724     -408,724            0
BLFDMOQ0 4.NRP      --- ---            0     441,020     -441,020            0
BLFDMOQ0 4.UNKNOWN  813 T3X            0         526         -526            0
BLFDMOQ0 4.UNKNOWN  893                0       9,405       -9,405            0
BLFDMOQ0 4.UNKNOWN  894                0     125,679     -125,679            0
```

Figure 6-15. Sample Cat/ECN/TD/Loc Report with the LS Sub/Tot Option Selected

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/09/27-14:15:58 BY  ROW 1 FROM 223
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => Y (Y/N)
Sub/Tot => ES (LE,LS,ES)       Sub-totals by Sep. Category within ECN
DATA FORMAT => 3 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: E
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
ECN TD  SEP CATGRY LOCATION  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
--- --- ---------- --------  ------------ ----------- ------------ ------------
010     4.CXR      BLFDMOQ0           143           0            0            0
010     4.CXR      ESSXMOAV            10           0            0            0
010     4.CXR      FRLYMOKI        17,050           0            0            0
010     4.CXR      --------        17,203           0            0            0
010     4.WBISERI  BLFDMOQ0           344           0            0            0
010     4.WBISERI  ESSXMOAV            79           0            0            0
010     4.WBISERI  --------           423           0            0            0
010     4.12MSGACC BLFDMOQ0             7           0            0            0
010     4.12MSGEXC ESSXMOAV            78           0            0            0
010     4.12MSGREL BLFDMOQ0            12           0            0            0
010     4.12MSGREL ESSXMOAV             3           0            0            0
010     4.12MSGREL --------            15           0            0            0
010     4.12PLEXCH BLFDMOQ0             4           0            0            0
```

Figure 6-16. Sample Cat/ECN/TD/Loc Report with the ES Sub/Tot Option Selected

```
--------  T/DIS-CES STUDY RESULTS CREATED 93/09/27-14:15:58 BY  ROW 1 FROM 202
COMMAND ===>                                                  SCROLL ===> PAGE

ACTION =>   (V-View, P-Print, L-Locate)    Based on Location Table => Y (Y/N)
Sub/Tot =>    (LE,LS,ES)
DATA FORMAT => 3 (1-2230, 2-Cat/ECN, 3-Cat/ECN/TD/Loc)    STUDY MODE: E
CAT => *           ECN => *    TD => *    LOC => *        INV=> *
SEP CATGRY ECN TD  LOCATION  TOTAL INVEST BASE INVEST UNKNOWN/NRP  CARRIER DIST
---------- --- --- --------  ------------ ----------- ------------ ------------
4.CXR      010     BLFDMOQ0           143           0            0            0
4.CXR      010     ESSXMOAV            10           0            0            0
4.CXR      010     FRLYMOKI        17,050           0            0            0
4.CXR      808     ESSXMOAV           129           0          129            0
4.CXR      809 T1  ESSXMOAV           283           0          283            0
4.CXR      810     FRLYMOKI       283,679     283,679            0            0
4.CXR      813 T3X BLFDMOQ0         1,600         116        1,484            0
4.CXR      813 T4X ESSXMOAV           195          66          129            0
4.CXR      814 T4X ESSXMOAV         1,671         574        1,097            0
4.CXR      834     ESSXMOAV         1,009           0        1,009            0
4.CXR      849     ESSXMOAV             4           0            0            0
4.CXR      893     BLFDMOQ0         2,291       2,079          212            0
4.CXR      894     BLFDMOQ0        37,245      27,789        9,456            0
```

Figure 6-17. Sample Results for Selected Locations

6.3 Moving from the Results Screens

From any of the Results screens you can go to any TDIS-CES screen or the Main Menu.

- To go to another display or transaction screen, in the Command field type **=** and the corresponding code to your desired screen, and press the ENTER key (for example, typing **=i** displays the Analyze/Adjust Investment screen).
- To go to the TDIS-CES Main Menu, press the END key.

6.4 Basic Study Processing Description

This section describes how TDIS-CES processes the basic study.

6.4.1 Investment Distributions and ECN Technology Split

This component contains mechanized investment processing necessary to purify the investment base prior to the basic study. This component includes the following three features in chronological order:

1. Distribution of 800 Investment
2. Distribution of Investment Without Usage
3. ECN Technology Split

Investment moved as a result of these processes is reflected in the post-study investment tables.

6.4.1.1 Distribution of 800 Investment

The 800 ECN investment represents unclassified circuit equipment investment that could not be assigned an ECN code in the range of 801 through 899. Since no usage exists for 800 ECNs, the investment must be distributed among the valid ECNs in a location that has usage. There are certain ECNs to which 800 ECN investment should not be distributed (e.g., newer technology ECNs). You must identify these ECNs in the No 800 Spread ECN table. All 800 ECN investment is stored in the ECN 800 Investment table. This distribution should cause the investment for each entry in the ECN 800 investment table to be spread among the valid ECNs in the Base Investment table in the same locations that have corresponding usage. When the investment is distributed among the Base Investment table entries, it is added to both the total field and an 800 distribution amount field in order to maintain an audit trail. You can validate this distribution by checking that each entry in the post-study ECN 800 Investment table has a total investment of zero dollars. Any non-zero investment amounts remaining in this table indicate an error condition you must adjust.

6.4.1.2 Distribution of Investment Without Usage

When investment is found for a particular location and ECN that has no corresponding usage, the investment must be distributed among subsequent occurrences of that ECN in the study area where there is usage. For example, if the TIRKS System and PICS have used different CLLI codes for the same location, an investment and usage mismatch is created. As a result, the investment from the PICS location is distributed to all locations that have the same ECN where usage and investment match. The distribution is proportional to the amount of investment. This distribution will also spread the central stock investment in the same manner. When the investment is distributed among the Base Investment table entries, it is added to or subtracted from both the total field and an Investment without Usage amount field in order to maintain an audit trail. You can view this distribution on the post-study investment screen. You can validate this distribution for central stock by checking

that each entry in the post-study Central Stock Investment table has a total investment of zero dollars. Any non-zero investment amounts remaining in this table indicate an error condition you must adjust.

6.4.1.3 ECN Technology Split

Certain ECNs, in particular T-CXR multiplexors, include different types of equipment with a wide range of costs in a single ECN. If a single ECN average cost per working subdivision is calculated, the calculation may be very inaccurate for some of the equipment usage within the ECN. The ECN Technology Split process splits an ECN by technology and applies a weighting factor to the sub-ECNs to increase the accuracy of their associated costs. You use the Technology Weighting table to define the ECN splits and their associated weights. The usage is split during usage load and the investment is split during the basic study (the Technology Weighting table used for both must be compatible). The investment split is based on weighted complement counts.

6.4.2 Calculate ECN Average Costs Per Working Subdivision

Average costs per working subdivision are developed on both a detailed and study area basis for each ECN. Study area average cost per working subdivision identifies a unique cost for each ECN in the study area that is a composite for all usage and investment. Detailed average costs per working subdivision identifies ECN costs for different locations. This allows the cost per ECN to vary depending on location.

If ECN investment exists without any corresponding usage, then that investment is not included in the accumulation of categorized investment; it is printed on the appropriate Investment Without Usage report in the basic study report.

The following average costs per working subdivision are developed by ECN on both a detailed and study area level:

- Average Cost Per Working Subdivision Non-HICAP
- Average Cost Per Working Subdivision HICAP Private Line
- Average Cost Per Working Subdivision HICAP Message.

6.4.3 Accumulate Categorized Investment by ECN

You select whether to accumulate categorized investment using the detailed or ECN Level costs, as described in Section 6.4.2. If you select detailed study, the detailed Average ECN Subdivision Costs are used; if you select ECN level, the Study Area-Average ECN Subdivision Costs are used.

Using the appropriate Average ECN Subdivision Cost table (i.e., Detailed or ECN level Area), multiply the appropriate average ECN subdivision cost (i.e., Non-HICAP, HICAP message, or HICAP private line) by the respective class code count and accumulate in the appropriate category using the Class Code to Category table. If a class code cannot be found in the Class Code to Category table, its respective investment will be assigned to the pseudo category of 4.UNKNOWN.

> **NOTE —** When using the Study Area ECN mode, this will result in investment being applied when none was initially applied. This is a consequence of using the study mode of **E**.

Accumulate the resulting investment by ECN, separations category, and location to produce the categorized investment data. Load this investment into the Categorized Investment table.

Class codes for which a separations category could not be derived are identified with the number of occurrences encountered and the respective cumulative investment on the 4.UNKNOWN report in the Basic Study report. The total ECN investment should equal the ECN investment in the pseudo category of 4.UNKNOWN (i.e., this data contains the details of the investment accumulated in 4.UNKNOWN).

6.4.4 Categorized Investment Distributions

This component contains mechanized categorized investment distributions necessary to complete the basic study. This includes the following four features in chronological order:

1. Distribution of 4.NRP and 4.UNKNOWN Investment
2. Distribution of Carrier Investment
3. Distribution of Dedicated Common and Dedicated Power Investment
4. Distribution of ICAC Amounts

Each of these features is discussed in the following text.

6.4.4.1 Distribution of 4.NRP and 4.UNKNOWN Investment

The pseudo category of 4.NRP represents the investment for equipment on non-revenue producing circuits, while the pseudo category of 4.UNKNOWN represents investment that could not be associated with a separations category. The investment for these pseudo categories comes from entries in the Categorized Investment table whose separations category is either 4.NRP or 4.UNKNOWN. The investment in these pseudo categories is distributed proportionally based on investment amounts among the valid separations

categories that exist for the ECN at the Study Area level. When the investment is distributed among the Categorized Investment table entries it will be added to or subtracted from both the total field and the 4.NRP/4.UNKNOWN amount field in order to maintain an audit trail.

6.4.4.2 Distribution of Carrier Investment

Certain pseudo categories (e.g. 4.XA, 4.XB, 4.HFM, etc.) represent carrier investment with no jurisdictional information. These pseudo categories must be distributed among valid separations categories. This process uses the Carrier Distribution table to control the distribution. The table identifies a correlation between two ECN codes. First, a target ECN is identified for which its carrier investment will be distributed based on the distribution of the second or model ECN's investment among valid categories within a given location (i.e., all categories excluding the pseudo categories for carrier, 4.NRP, and 4.UNKNOWN). When the investment is distributed among the Categorized Investment table entries, it is added to both the total field and a Carrier distribution amount field while subtracted from the pseudo category to maintain an audit trail.

The possibility exists that carrier investment remains undistributed after the above process is completed (if carrier investment exists in invalid categories **only** for a given location/ ECN and the model ECN does not contain any valid categories in which to distribute the investment). This condition is remedied by a secondary process in which the originally undistributed carrier investment is distributed (based on Study Area distributions of valid categories for the given Model ECN) into a location identified as BOGUS. The carrier investment distributed into location BOGUS is subtracted from the originating location/ ECN to maintain an audit trail.

6.4.4.3 Distribution of Dedicated Common and Dedicated Power Investment

Since no usage exists for power ECNs, the investment must be distributed among the categorized investment. The power investment is distributed proportionally among the separations categories that exist in the location.

6.4.4.4 Distribution of ICAC Amount

ICAC (Inter-Company Administrative Contract) dollars must be posted against the categorized investment to produce the final study results. The ICAC table can be used for this purpose. The total investment by category(s) is withdrawn on a prorata basis from those locations that have the category specified in the table. As the categorized investment is reduced, a false ECN of ICA is introduced at the location/ECN/TD level. The amount in this false ECN of ICA is that location's prorata share of ICAC reduction in a category.

7. Browsing Reports

The browse report screen allows you to view the following reports:

- Investment Load
- Usage Load
- Basic Study
- Verify Study Results.

The purpose of the Browse Reports function is to allow you to browse the results of the investment load, usage load, category/class code/ECN, or basic study. Each report displays the results of the most recent investment or usage load, or basic study run. You cannot obtain versions of reports generated by previous investment or usage loads, or basic study runs.

7.1 Accessing the Browse Reports Screen

Use either of the following methods to access the Execute Basic Study screen:

- From the TDIS-CES Main Menu, enter **b** in the Option field.
- From any screen in TDIS-CES, enter **=b** in the Command field.

The Browse Reports screen is displayed (see Figure 7-1).

```
-------------------------  T/DIS-CES BROWSE REPORTS ------------ ENTER OPTION
OPTION ===>

   IR  INVESTMENT REPORT   - Browse Inv Report     STUDY AREA: MO
   UR  USAGE REPORT        - Browse Usage report   DRMA DATE:  10/90
   SR  BASIC STUDY REPORT  - Browse Basic Study    T/DIS DATE: 08/08/92
   UC  USAGE CAT/CC REPORT - Browse Cat/CC/ECN     PRINTER: PY4P11
                                                   CLASS: K
```

Figure 7-1. The Browse Reports Screen

7.2 Using the Browse Reports Screen

To display a report, enter the code that corresponds to your selection in the Option field. TDIS-CES displays the most recent report for the option you selected. Section 3, Loading the Data, provides examples of these reports.

When you have finished viewing the report, press END. The Report Hardcopy screen is displayed. Section 3, Loading the Data, provides an example of this screen and procedures for using it. When you exit from this screen, TDIS-CES displays the Browse Reports screen.

7.3 Moving from the Browse Reports Screen

- To go to another display or transaction screen, in the Action field type = and the corresponding code to your desired screen, and press the ENTER key (for example, typing **=d** displays the Verify DRMA Investment screen).
- To go to the Main Menu, press END.

8. Managing User Tables

User tables are tables you define. Your study results depend on how you define these tables. There are 13 user tables; each table is listed on the User Table Menu. You access the User Table Menu from the TDIS-CES Main Menu. The Class Code to Separation Category table is required to run the Basic Study. All other tables are optional.

Each table enables you to edit the information you define. Descriptions for each table, along with procedures for using them are provided in the subsections that follow.

If you have made changes to any of the tables after you have run the basic study, you must rerun the study to see the results of those changes reflected on the Verify Results screen.

Changes you make to these tables are effective in the split screen mode when you press RETURN. For example, if you are editing an investment table and edit one of the user tables in split screen, the change to the user table is effective immediately.

There are crosscheck relationships among tables. Figure 8-1 shows these relationships.

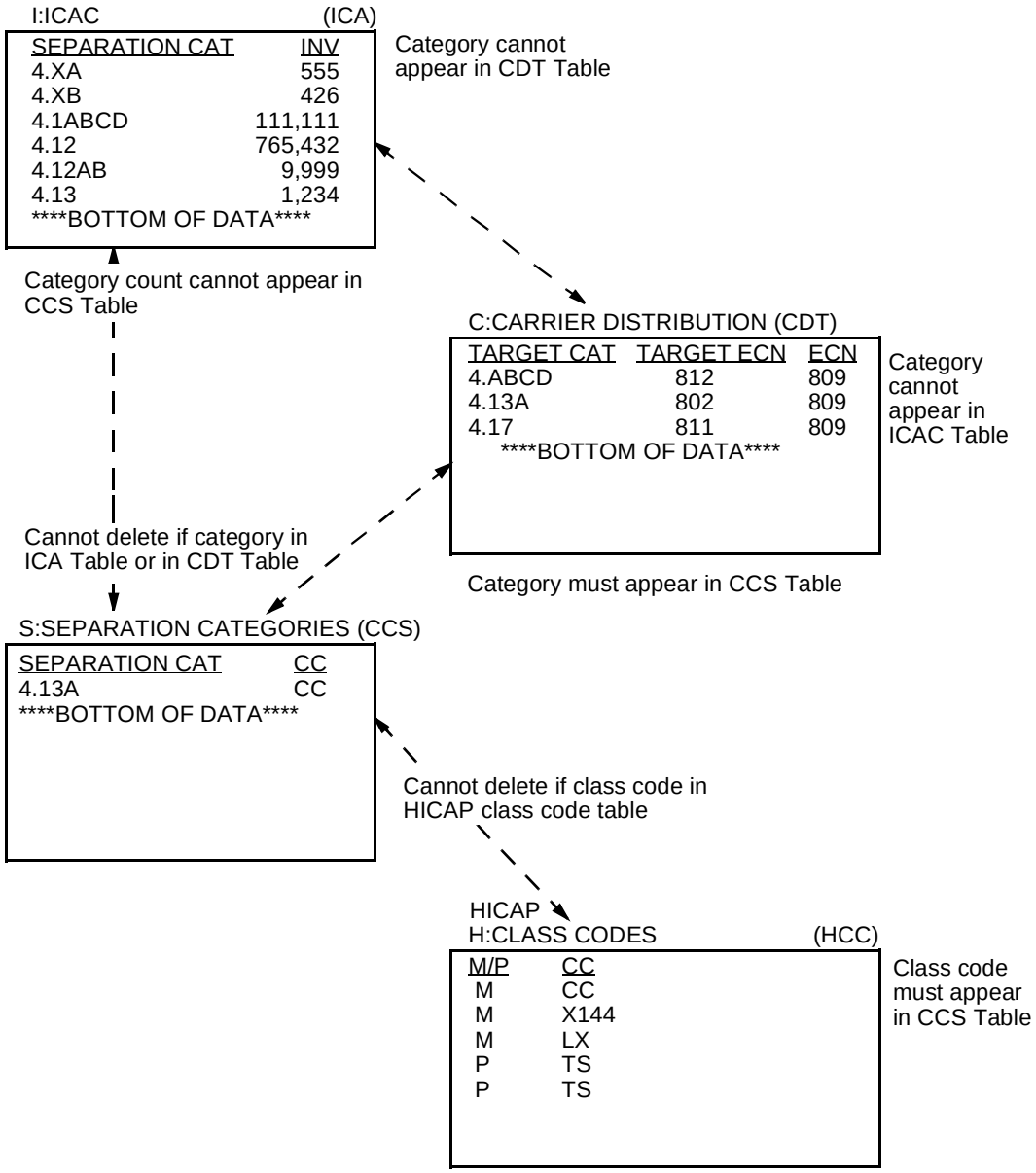


Figure 8-1. Crosscheck Relationships (Page 1 of 2)

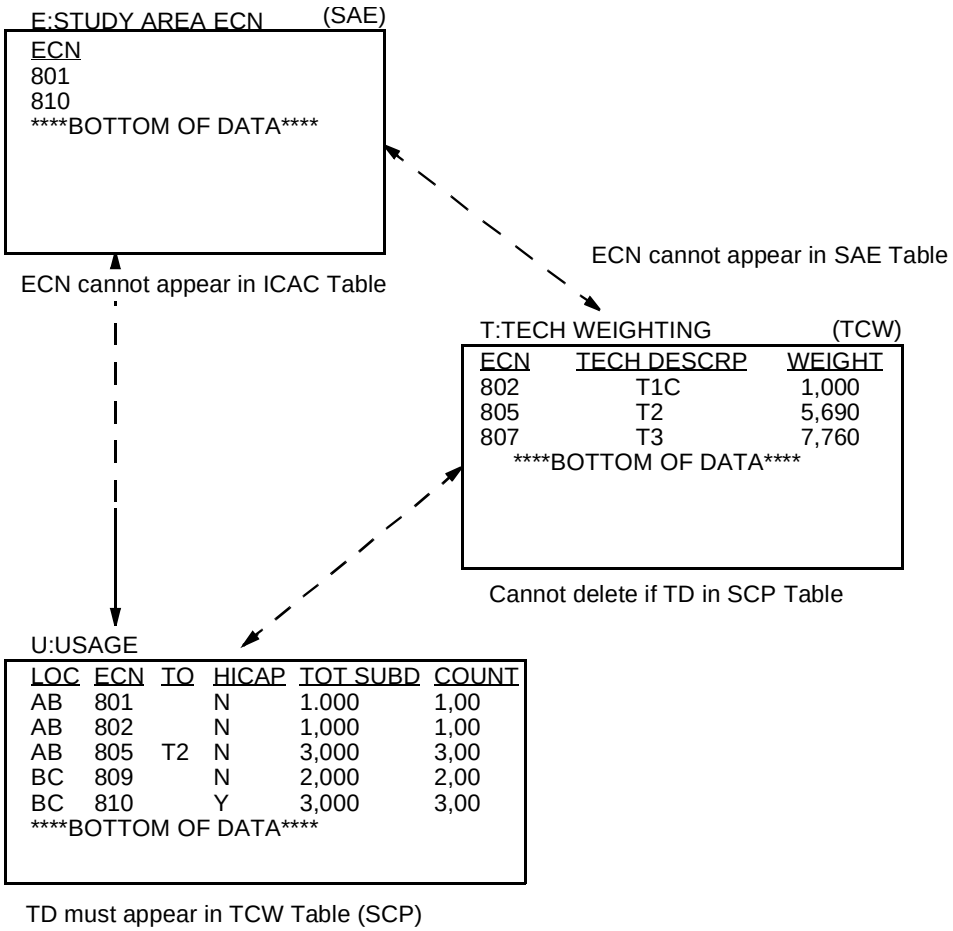


Figure 8-1. Crosscheck Relationships (Page 2 of 2)

8.1 Accessing the User Tables Menu

Use either of the following methods to access the User Table Menu:

- From the TDIS-CES Main Menu, enter **t** in the Option field.
- From any screen in TDIS-CES, enter **=t** in the Command field.

The User Table Menu is displayed (see Figure 8-2).

```
----------------------  T/DIS-CES USER TABLE MANAGEMENT  ----------------------
OPTION ===>

   C  CARRIER SPREAD - Carrier Distribution Table    STUDY AREA: MO
   E  STUDY AREA ECN - Study Area ECN Table          DRMA DATE:  10/90
   G  GROUP CODES    - HI-CAP Group Codes Table      T/DIS DATE: 08/08/92
   H  CLASS CODES    - HI-CAP Class Code Table       PRINTER: PY4P11
   N  NO 800 SPREAD  - No 800 Spread ECN Table       CLASS: K
   I  ICAC           - Inter-Company Administrative Contract Table
   L  SELECTED LOC   - Selected Locations Study Table
   M  MAPPINGS       - Location, ECN, FRC Mapping Table
   S  SEP CATEGORIES - Class Code to Separations Category Table
   SI INVESTMENT     - Supplemental Investment Table
   T  TECH WEIGHTING - Technology Weighting Table
   U  USAGE          - Supplemental Usage Tables
   UM USAGE MAPPINGS - Usage Location, ECN, and TD Mapping Table
   X  EXIT           - Exit T/DIS-CES User Tables
```

Figure 8-2. User Table Management Menu

8.2 Accessing a User Table

The procedures to access each of the user tables are the same, and are provided below.

Use either of the following methods to access a user table:

- From the TDIS-CES Main Menu:
  1. Enter **t** in the Option field.
  2. Enter the option code that corresponds to the table you are selecting in the Option field on the User Tables Menu.
- From any User Table screen, enter **=t.** and the option code that corresponds to the table you are selecting in the Command field. For example, if you are using the Technology Weighting Table and you want to use the Study Area ECN Table, enter **=t.e** in the Command field on the Technology Weighting Table to display the Study Area ECN Table.

The user table you have chosen is displayed.

8.3 Moving from a User Table

From a user table you can go to any TDIS-CES screen or the Main Menu.

- To go to another display or transaction screen, in the Action field type = and the corresponding code to your desired screen, and press the ENTER key (for example, typing **=d** displays the Verify DRMA Investment screen). If you want to go to another User Table screen, type **=t.** and the corresponding code to your desired screen.
- To go to the TDIS-CES Main Menu, you must first go to the User Table menu by entering END in the Command field on this screen. Enter END in the Option field on the User Table menu to go to the Main Menu.

8.4 Carrier Distribution Table (Option C)

This table is used to spread investment in carrier systems that support lower level voice assignable systems. An example is the T2 carrier with all four channels supporting T1 systems. These four channels will develop investment associated with a category that identifies carrier support.

> **NOTE —** You cannot add a record to the table if its category can be found in the ICAC table, and *cannot* be found in the Class Code to Separations Category table.

You can use this table to spread this carrier support investment into valid separations categories. The target category and the target ECN identify the investment to be spread. The model ECN identifies what ECN provides the valid separations categories to distribute the carrier support investment found in the target category and target ECN.

Figure 8-3 shows an example of the Carrier Distribution table. Access procedures are provided in Section 8.2. Procedures for moving from the Carrier Distribution table are provided in Section 8.3.

```
_____________________ T/DIS-CES CARRIER DISTRIBUTION TABLE _______ ROW 1 OF 5
COMMAND ===>                                                 SCROLL ===> CSR

ACTION => _ (P-Print, L-Locate, A-Add, C-Change, D-Delete)
TARGET CATEGORY =>            TARGET ECN =>      MODEL ECN =>
_________________             ____________       _________
4.ABCD                          812                811
4.12                            802                821
4.12                            811                801
4.13AB                          815                816
4.17                            808                811
****************************** BOTTOM OF DATA  ********************************
```

Figure 8-3. Carrier Distribution Table

8.4.1 Defining the Carrier Distribution Table

Table 8-1 contains a description of each field on the Carrier Distribution Table.

Table 8-1. Carrier Distribution Field Definitions

Field	Description
Action	Use this field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.
Target Category	Use this field to identify the carrier investments you are spreading.
Target ECN	Use this field to identify the ECN whose carrier investment is transferred.
Model ECN	Use this field to identify the ECN you are using to spread the carrier investments associated with the target ECN and target category. This field may be the same as the target ECN. For example, you may want to use the same target ECN and model ECN for T1 carriers to dissolve the T1C and T2 investment assigned to the target category.

8.4.2 Adding a Carrier Distribution

You select the add command when you want to establish carrier distribution record on the Carrier Distribution Table. To add carrier distribution, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the target category in the Target Category field.
3. Enter the target ECN in the Target ECN field.
4. Enter the model ECN in the Model ECN field.
5. Press the ENTER key.

Figure 8-4 is an example of a successful carrier distribution addition. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The carrier distribution record you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the carrier distribution record, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

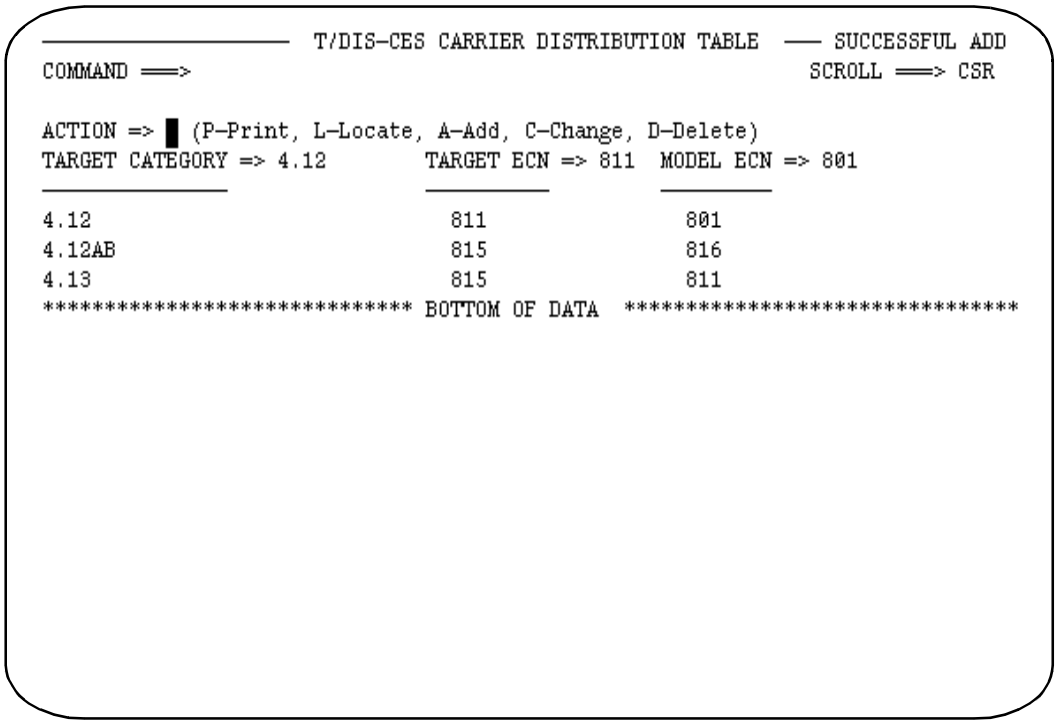


Figure 8-4. Adding a Carrier Distribution Spread

8.4.3 Changing a Carrier Distribution

You select the change action when you want to change the model ECN you are using to spread the carrier investments identified in the target category and ECN. To change a carrier distribution record, follow the procedures below:

1. Enter **c** in the Action field.
2. Enter the target category you want to change in the Target Category field.
3. Enter the target ECN.
4. In the Model ECN field, enter the new ECN you want the spread of investments to be based upon.
5. Press the ENTER key.

Figure 8-5 is an example of a model ECN that has been successfully changed. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
_____________________ T/DIS-CES CARRIER DISTRIBUTION        SUCCESSFUL CHANGE
COMMAND ===>                                                 SCROLL ===> CSR

ACTION => _ (P-Print, L-Locate, A-Add, C-Change, D-Delete)
TARGET CATEGORY => 4.12AB      TARGET ECN => 815  MODEL ECN => 811
_______________                ___________        _________

4.12AB                           815                811
4.13                             815                811
****************************** BOTTOM OF DATA  ********************************
```

Figure 8-5. Changing a Carrier Distribution Spread

8.4.4 Deleting a Carrier Distribution

You select the delete action when you want to delete a carrier distribution spread on the Carrier Distribution table. To delete a carrier distribution record, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the target category you want to delete in the Target Category field.
3. Enter the target ECN in the Target ECN field.
4. Press the ENTER key.

Figure 8-6 shows an example of a carrier distribution spread that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The carrier distribution record immediately above the record you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
_____________________ T/DIS-CES CARRIER DISTRIBUTION        SUCCESSFUL DELETE
COMMAND ===>                                                 SCROLL ===> CSR

ACTION => _ (P-Print, L-Locate, A-Add, C-Change, D-Delete)
TARGET CATEGORY => 4.12        TARGET ECN => 811  MODEL ECN => 801
_______________                __________         _________
4.12                             802                821
4.12AB                           815                816
4.13                             815                811
****************************** BOTTOM OF DATA  ********************************
```

Figure 8-6. Deleting a Carrier Distribution Spread

8.5 Study Area ECN Table (Option E)

This table identifies ECNs whose usage and investment should be allocated only at the Study Area level. Before investments are spread, TDIS-CES sums up usage and investments for each ECN in this table, without further classifying the spreads by location. This table cannot include any ECNs that appear on the Technology Weighting table.

This table does not affect the data when you choose the Basic Study mode of E. This table affects the price development of an ECN when you choose the Basic Study mode of D.

Figure 8-7 shows an example of the Study Area ECN table. Access procedures are provided in Section 8.2. Procedures for moving from the Study Area ECN table are provided in Section 8.3.

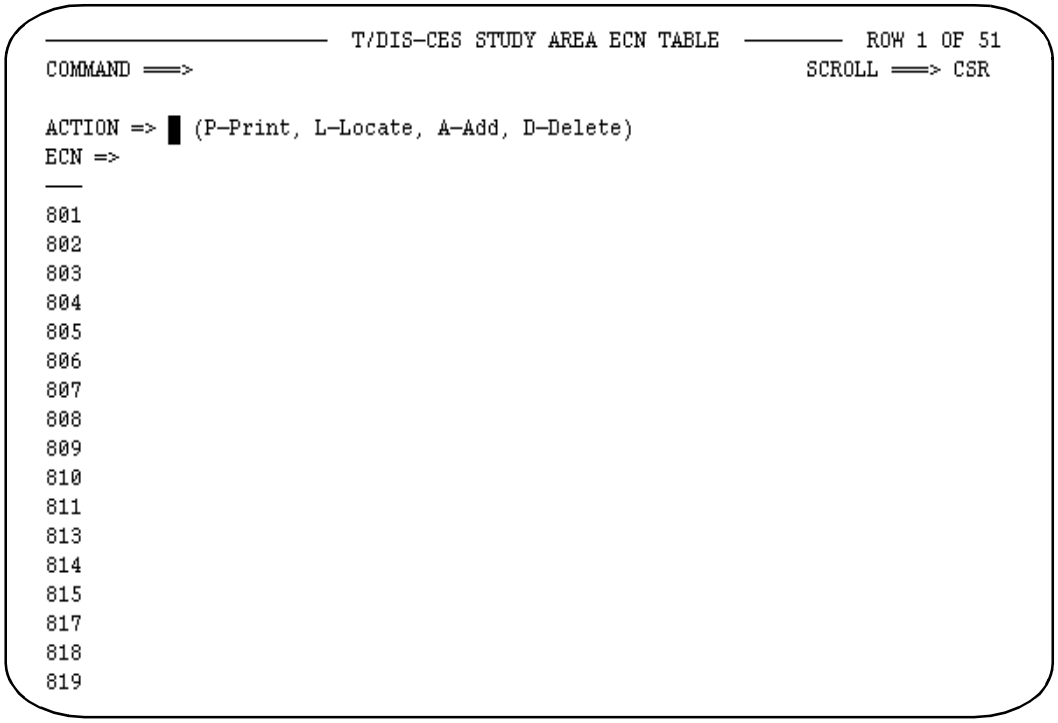


Figure 8-7. Study Area ECN Table

8.5.1 Defining the Study Area ECN Table

This table contains two fields:

1. Action
2. ECN

Use the action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.

Use the ECN field to specify the ECNs you are adding or deleting. You can specify one three-character ECN in this field. If you want to locate a specific ECN, enter the ECN you want to locate in this field, and enter **l** in the Action field.

8.5.2 Adding an ECN to the Study Area ECN Table

You select the add action when you want to add an ECN to the Study Area ECN Table. To add an ECN, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the ECN you want to add in the ECN field. Enter just one ECN at a time.
3. Press the ENTER key.

Figure 8-8 is an example of an ECN that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The ECN you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the ECN, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

> **NOTE —** You cannot add a record to this table if the ECN can be found in the Technology Weighting table.

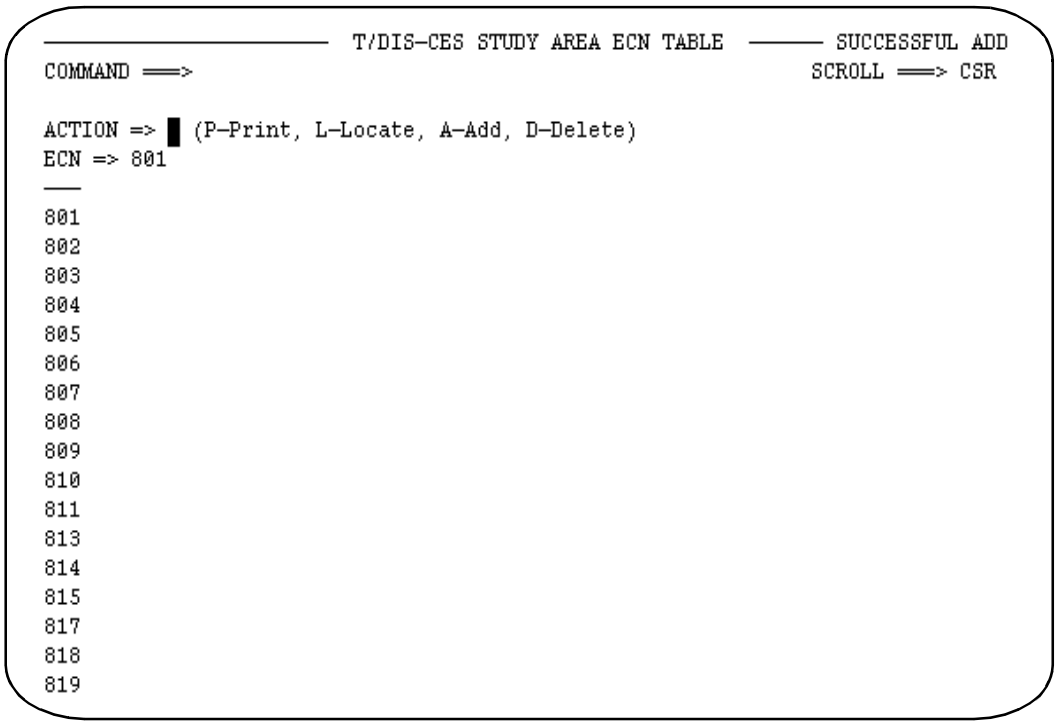


Figure 8-8. Adding ECNs to the Study Area ECN Table

8.5.3 Deleting an ECN from the Study Area ECN Table

You select the delete action when you want to delete ECNs from the Study Area ECN table. To delete ECNs, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the ECN you want to delete in the ECN field. Enter just one ECN at a time.
3. Press the ENTER key.

Figure 8-9 shows an example of an ECN that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The ECN immediately above the ECN you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

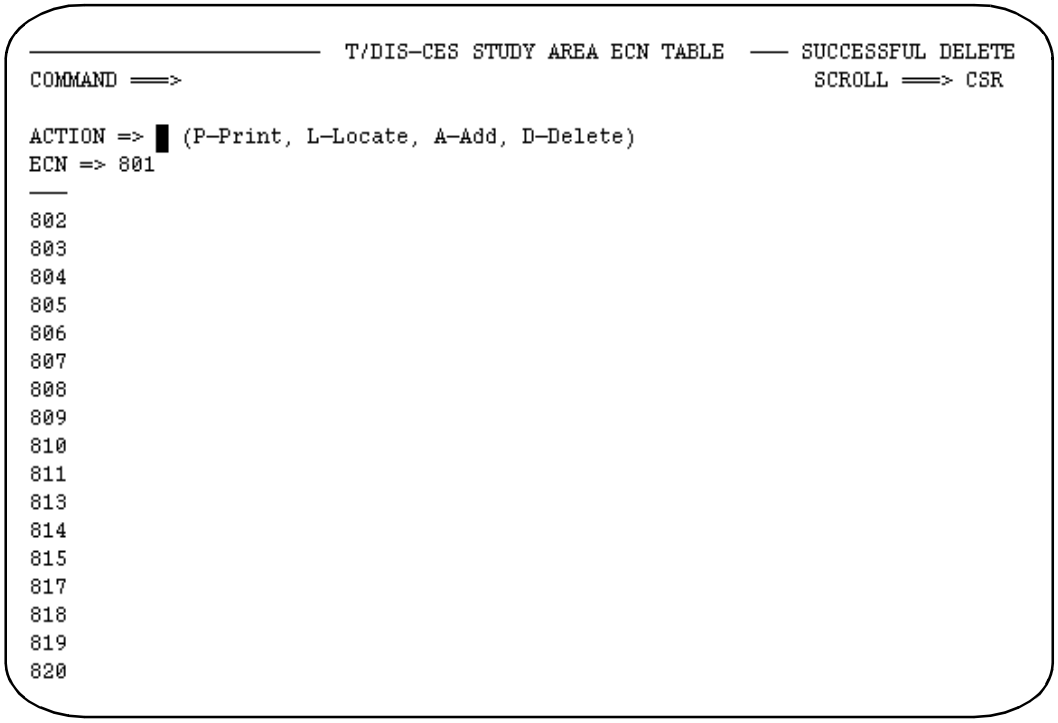


Figure 8-9. Deleting ECNs from the Study Area ECN Table

8.6 HICAP Group Codes Table (Option G)

This screen identifies HICAP group codes for single ended HICAP. TDIS-CES accesses this table during the usage load to identify HICAP complement data. The information defined in this table is used to identify HICAP during the usage load.

> **NOTE —** You cannot run a study if you change the data contained in this table and have not reloaded the usage data. If you try to run a study without reloading the data, TDIS-CES will not process the request and an appropriate message is displayed.
>
> The data in this table is ignored when the normalized facility or equipment load options are used.

Figure 8-10 shows an example of the HICAP Group Codes table. Access procedures are provided in Section 8.2. Procedures for moving from the HICAP Group Codes table are provided in Section 8.3.

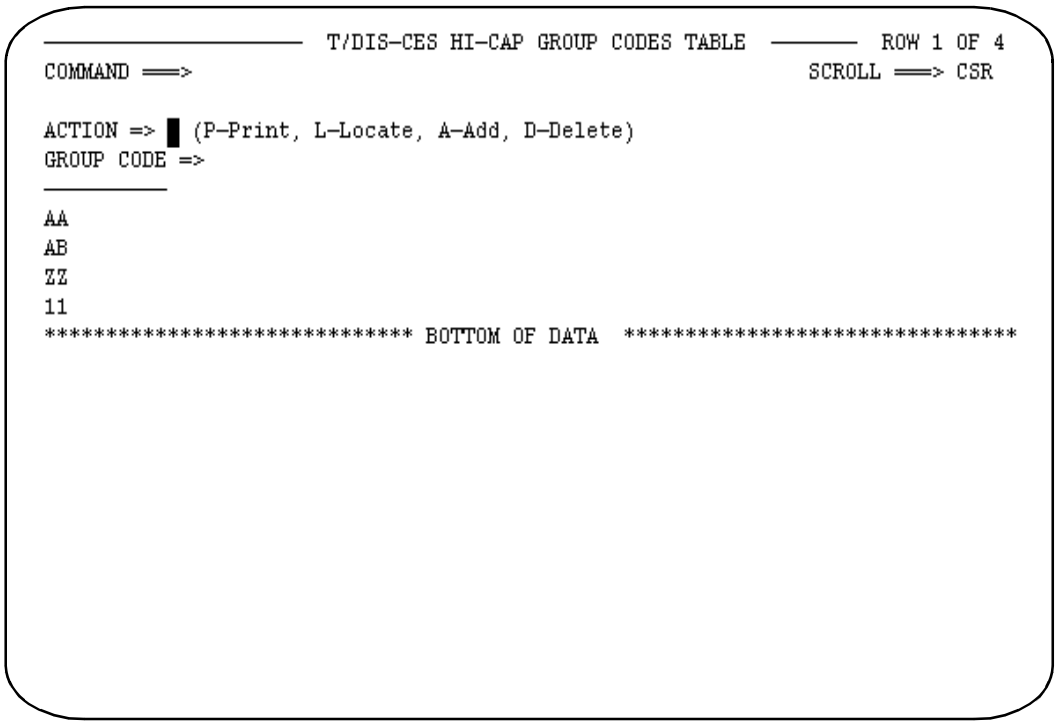


Figure 8-10. HICAP Group Codes Table

8.6.1 Defining the HICAP Group Codes Table

This table contains two fields:

1. Action
2. Group Code

Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.

Use the Group Code field to specify the HICAP group code you are adding or deleting. You can specify one two-character group code in this field. The group code can be one character. If you want to locate a specific group code, enter it in this field and enter **l** in the Action field.

8.6.2 Adding Group Codes to the HICAP Group Codes Table

You select the add action when you want to add a group code to the HICAP Group Codes table. To add group codes, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the group code you are adding in the Group Code field. Enter just one Group Code at a time.
3. Press the ENTER key.

Figure 8-11 is an example of a group code that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The group code you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the group code, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

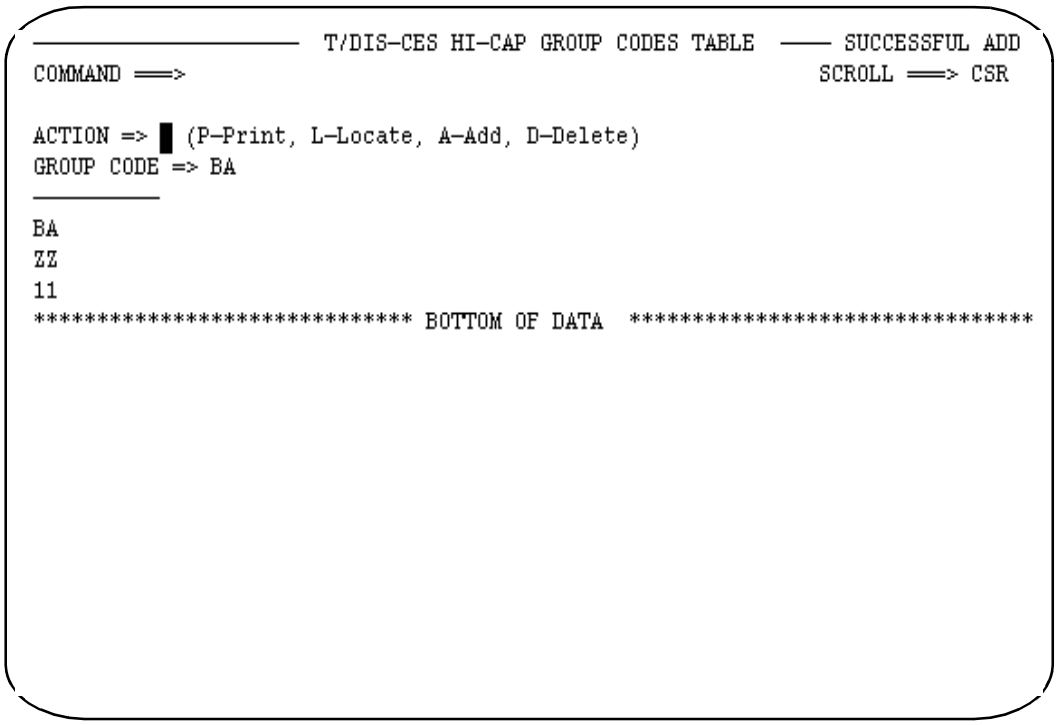


Figure 8-11. Adding Group Codes to the HICAP Group Code Table

8.6.3 Deleting Group Codes from the HICAP Group Codes Table

You select the delete action when you want to delete group codes from the HICAP Group Codes table. To delete group codes, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the group code you are deleting in the Group Code field. Enter just one Group Code at a time.
3. Press the ENTER key.

Figure 8-12 shows an example of a group code that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The group code immediately above the group code you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

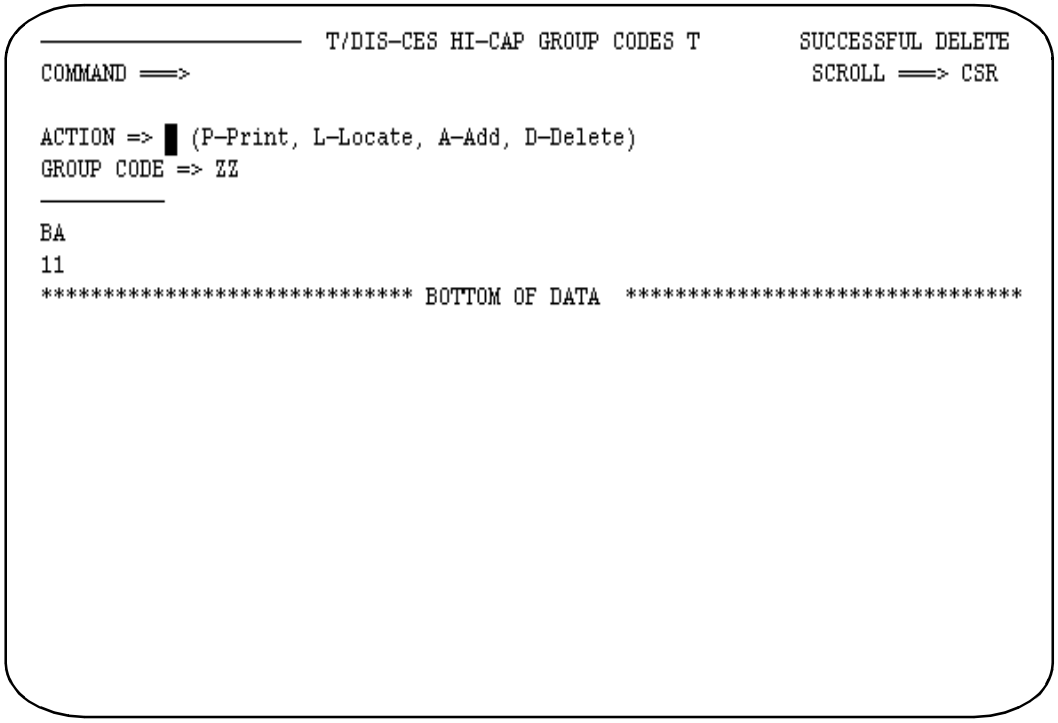


Figure 8-12. Deleting Group Codes from the HICAP Group Code Table

8.7 HICAP Class Code Table (Option H)

This screen identifies a company's switched access and private line class codes on single ended HICAP.

> **NOTE —** You cannot add a record to this table if its class code does not appear in the Class Code to Separations Category table.

Figure 8-13 shows an example of the HICAP Class Code table. Access procedures are provided in Section 8.2. Procedures for moving from the HICAP Class Code table are provided in Section 8.3.

```
_____________________ T/DIS-CES HICAP CLASS CODE TABLE _______ ROW 1 OF 57
COMMAND ===>                                                SCROLL ===> CSR

ACTION => _ (A-Add, C-Change, D-Delete, L-Locate, P-Print)
 M/P => *    CLASS CODE => *      (M = Message, P = Private Line)
_____       __________

  M           K144
  M           MCXA
  M           MC44
  M           M244
  M           RNUR
  M           RNWK
  M           RNWM
  M           RNXA
  M           RNZK
  M           RNZM
  M           RN39
  M           RN42
  M           RN44
  M           YSUR
  M           YSWK
  M           YSWM
  M           YSXA
```

Figure 8-13. HICAP Class Code Table

8.7.1 Defining the HICAP Class Code Table

This table contains three fields:

1. Action
2. M/P
3. Class Code

Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.

Use the M/P field to specify a message or private line class code, respectively.

Use the Class Code field to specify the class code.

Class codes are grouped first by message grouping, then by private line, and are sorted alphabetically within each grouping.

8.7.2 Adding a Class Code

You select the add action when you want to add a class code to the HICAP Class Code table. To add a class code, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter **m** if you are adding a message class code, or **p** if you are adding a private line class code in the M/P field.
3. Enter the 4-character class code in the Class Code field.
4. Press the ENTER key.

Figure 8-14 is an example of a class code that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The class code you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the class code, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

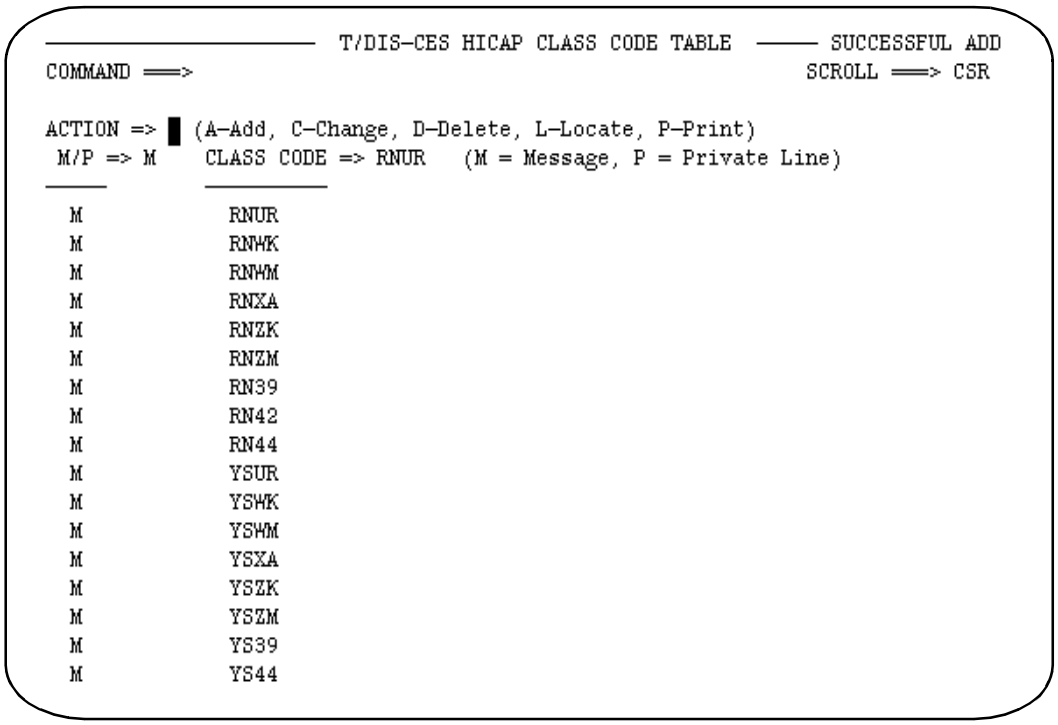


Figure 8-14. Adding a Class Code to the HICAP Class Code Table

8.7.3 Changing a Class Code

You select the change action when you want to change a class code on the HICAP Class Code table. To change a class code, follow the procedures below:

1. Enter **c** in the Action field.
2. In the M/P field, enter **p** if you are changing the class code from message to private line, or **m** if you are changing the class code from private line to message.
3. Enter the class code you are changing in the Class Code field.
4. Press the ENTER key.

Figure 8-15 is an example of a class code that has been successfully changed. The changed record is placed in its appropriate position in the records. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

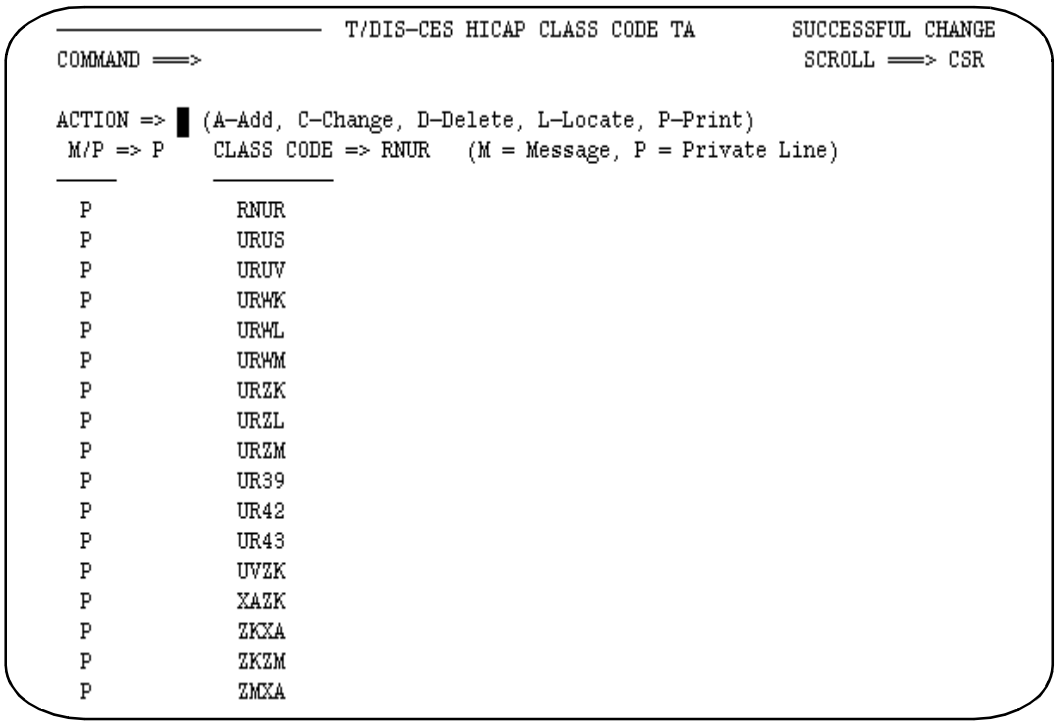


Figure 8-15. Changing a Class Code on the HICAP Class Code Table

8.7.4 Deleting a Class Code

You select the delete action when you want to delete a class code in the HICAP Class Code table. To delete a class code, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter **m** or **p** in the M/P field.
3. Enter the class code you want to delete in the Class Code field.
4. Press the ENTER key.

Figure 8-16 shows an example of a class code that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The class code immediately above the class code you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

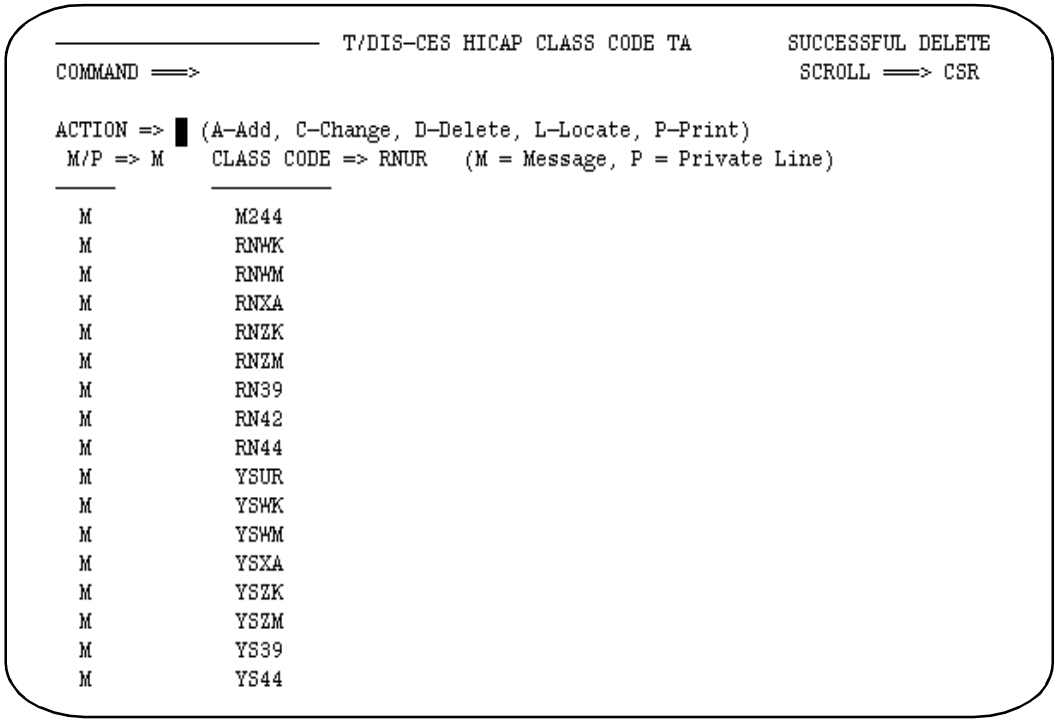


Figure 8-16. Deleting a Class Code from the HICAP Class Code Table

8.8 Inter-Company Administrative Contract (ICAC) Table (Option I)

This table identifies Inter-Company Administrative Contract amounts by separations category. These amounts are posted against the categorized equipment totals to produce the final study results. The values in the investment column are removed from the category.

> **NOTE —** You cannot add a record to this table if it does not appear in either the Class Code to Separations Category or Carrier Distribution tables.

Figure 8-17 shows an example of the ICAC table. Access procedures are provided in Section 8.2. Procedures for moving from the ICAC table are provided in Section 8.3.

```
_____________  T/DIS-CES INTER-COMPANY ADMIN CONTRACT(ICAC) TABLE   ROW 1 OF 6
COMMAND ===>                                                  SCROLL ===> CSR

ACTION => _ (P-Print, L-Locate, A-Add, C-Change, D-Delete)
SEPARATIONS CATEGORY =>             INVESTMENT =>
_____________________               __________
4.XA                                       555
4.XB                                       426
4.1ABCD                                111,111
4.12                                   765,432
4.12AB                                   9,999
4.13                                     1,234
****************************** BOTTOM OF DATA  *********************************
```

Figure 8-17. Inter-Company Administrative Contract (ICAC) Table

8.8.1 Defining the ICAC Table

This table contains three fields:

1. Action
2. Separations Category

3. Investment

Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.

8.8.2 Adding ICAC Investments

You select the add action when you want to add ICAC amounts to the ICAC table. To add ICAC amounts, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the category that the ICAC dollars will reduce, (e.g., 4.23).
3. Enter the investment associated with Inter-Company billing.
4. Press the ENTER key.

Figure 8-18 is an example of a successful ICAC addition. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The added record becomes the first record displayed on your screen. If TDIS-CES was unable to add the record, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

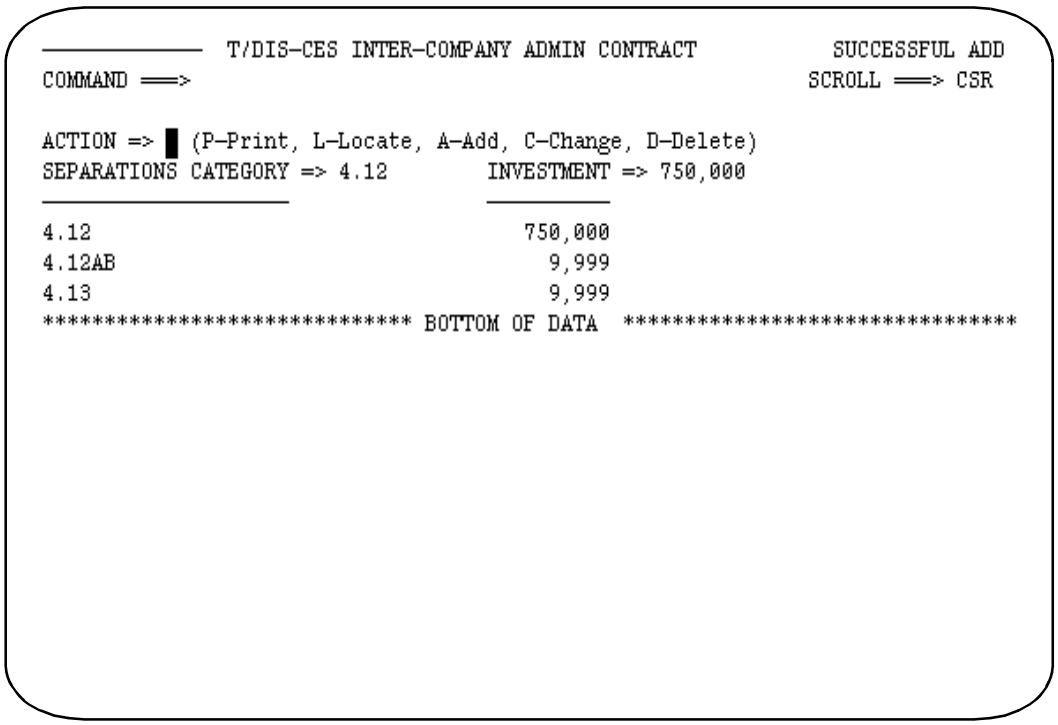


Figure 8-18. Adding to the ICAC Table

8.8.3 Changing ICAC Investments

You select the change action when you want to change the ICAC amount you are associating with the separations category on the ICAC table. To change the ICAC amount, follow the procedures below:

1. Enter **c** in the Action field.
2. Enter the separations category you want to change in the Separations Category field.
3. Enter the new ICAC investment amount you want to associate with the separations category.
4. Press the ENTER key.

Figure 8-19 is an example of an ICAC amount that has been successfully changed. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
_____________  T/DIS-CES INTER-COMPANY ADMIN CONTRACT        SUCCESSFUL CHANGE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION => C (P-Print, L-Locate, A-Add, C-Change, D-Delete)
SEPARATIONS CATEGORY => 4.WSER      INVESTMENT => 500,500,500
_____________________               ___________

4.WSER                            500,500,500
4.XA                                      555
4.XB                                      555
4.11111111                            111,111
4.12                                  765,432
4.12AB                                  9,999
4.13                                    9,999
****************************** BOTTOM OF DATA  ********************************
```

Figure 8-19. Changing the ICAC Table

8.8.4 Deleting ICAC Investments

You select the delete action when you want to delete a separations category and its associated ICAC investments from the ICAC table. To delete an ICAC record, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the separations category you want to delete in the Separations Category field.
3. Press the ENTER key.

Figure 8-20 shows an example of an ICAC record that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The ICAC record immediately above the ICAC record you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

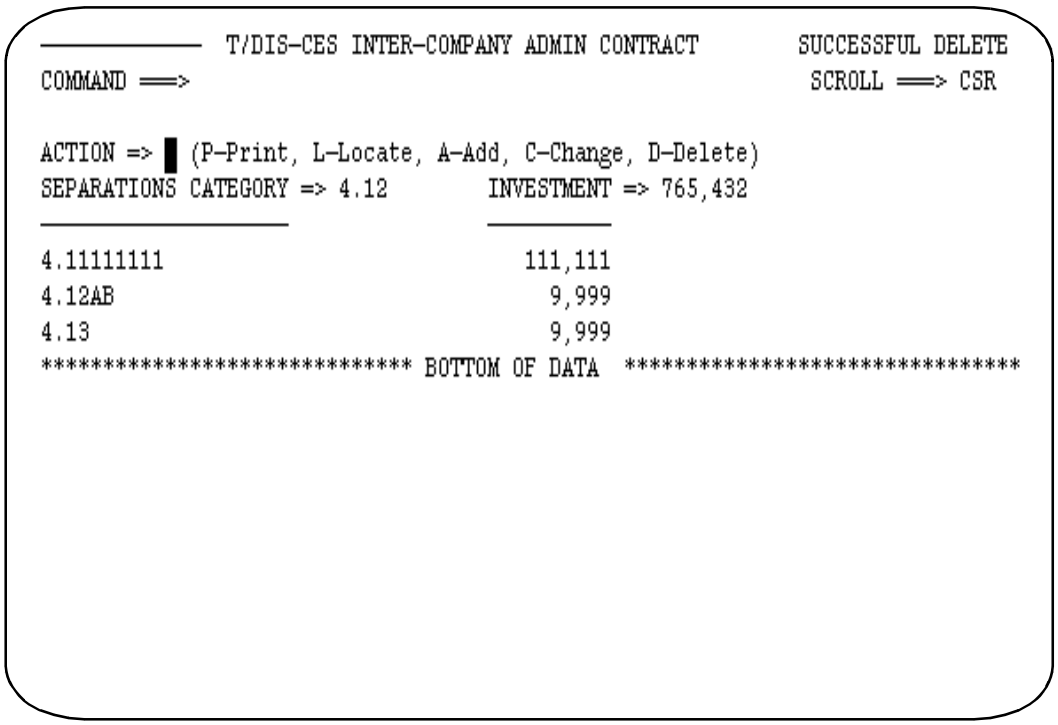


Figure 8-20. Deleting from the ICAC Table

8.9 Selected Location Study Table (Option L)

This table allows you to obtain study results for specific locations. If you choose the Selected Locations option on the Basic Study Results screen, you obtain study results only for the locations listed on this table.

Figure 8-21 shows an example of the Selected Location table. Access procedures are provided in Section 8.2. Procedures for moving from the Selected Location table are provided in Section 8.3.

```
———————————— T/DIS–CES SELECTED LOCATION STUDY TABLE ——— ROW 1 OF 15
COMMAND ===>                                          SCROLL ===> CSR

ACTION => ▌ (P–Print, L–Locate, A–Add, D–Delete)
LOCATION =>
————————
AAAAOH
AAAAOHAA
ABCDOH
ABCDOHAA
ABCDOHBB
ABCDOHCC
ABCDOHDD
ABCDOHZZ
BBBBOH
BBBBOHBB
CCCCOHCC
CLEVOH21
DDDDOHDD
GHIJOHKL
ZZZZOH
******************************* BOTTOM OF DATA  ********************************
```

Figure 8-21. Selected Location Study Table

8.9.1 Defining the Selected Location Study Table

This table contains two fields:

1. Action
2. Location

Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.

Use the Location field to specify the locations you are adding or deleting. You can specify one eight-character location code in this field. If you want to locate a specific location code, enter it in this field and enter **l** in the Action field.

8.9.2 Adding Locations to the Selected Location Table

You select the add action when you want to add locations to the Selected Location table. To add locations, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the location you want to add in the Location field. Enter just one location at a time.
3. Press the ENTER key.

Figure 8-22 is an example of a location code that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The location code you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the location code, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

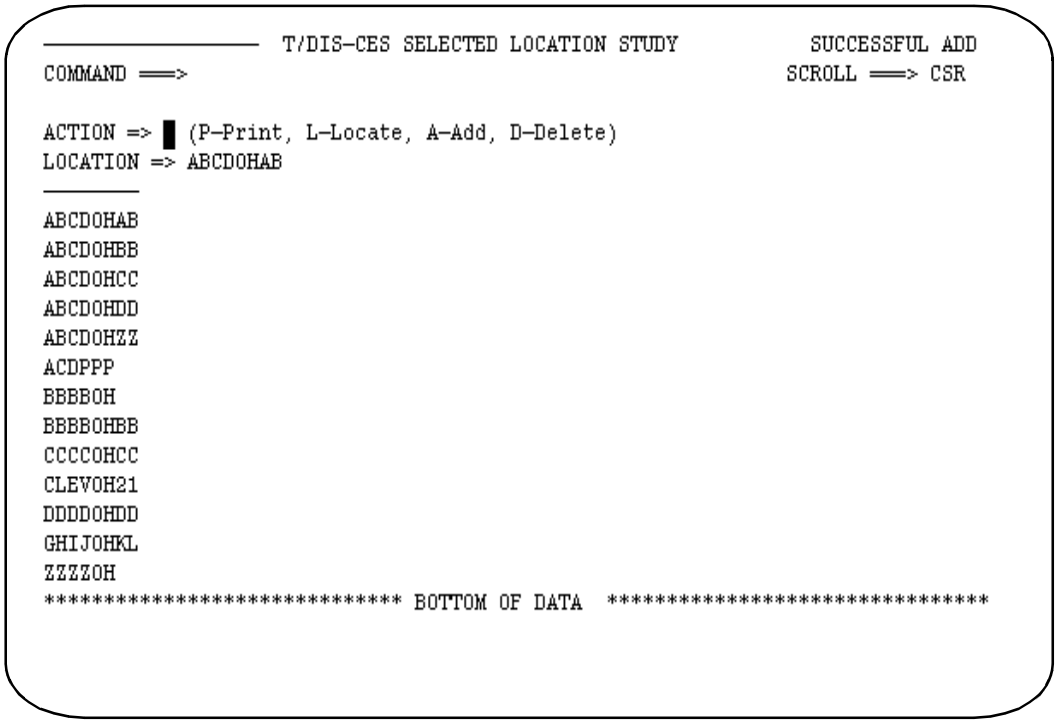


Figure 8-22. Adding Locations to the Selected Location Table

8.9.3 Deleting Locations from the Selected Location Table

You select the delete action when you want to delete locations from the Selected Location table. To delete locations, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the location you are deleting in the Location field. Enter just one location at a time.
3. Press the ENTER key.

Figure 8-23 shows an example of a location code that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The location code immediately above the location code you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

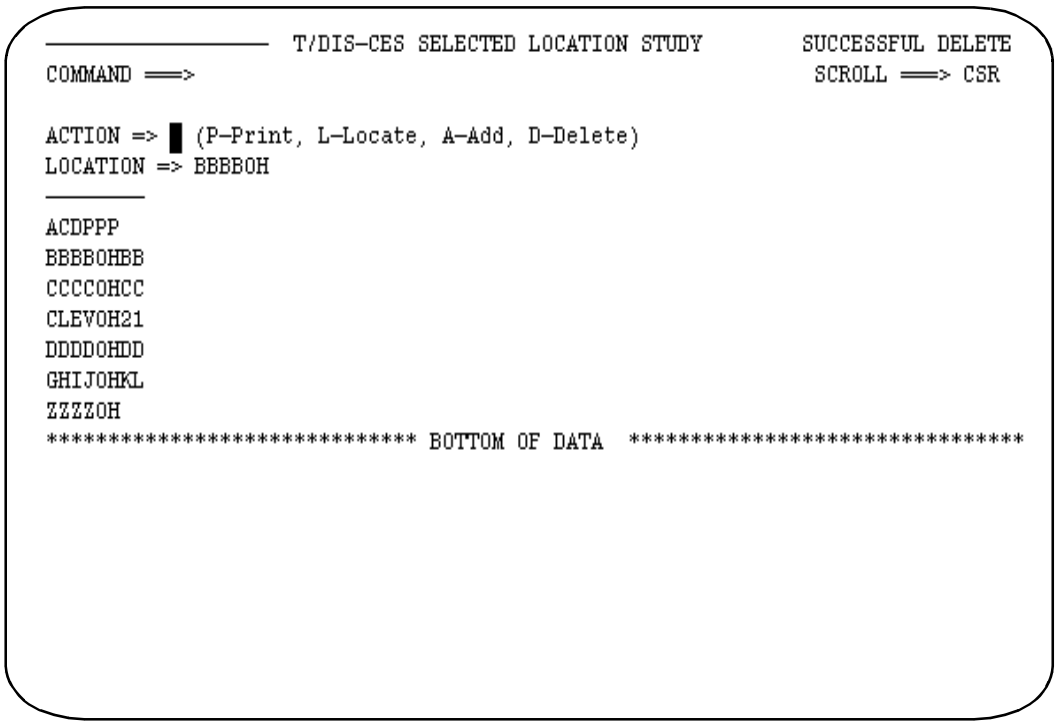


Figure 8-23. Deleting Locations from the Selected Location Table

8.10 Location, ECN, FRC Mapping Table (Option M)

This table maps all or part of an investment for one location and/or ECN to another location and/or ECN. You can make the mapping even more specific by including an FRC. TDIS-CES accesses this table during the investment load.

Listed below are some reasons you may want to apply a mapping relationship:

1. To move investment from remote locations with little or no usage back to the powering central office.
2. To cause the PICS CLLI codes to match the TIRKS CLLI codes to better align usage and investment.
3. Map all DRMA investment that has no usage to one location where supplemental usage will be provided.

   CAUTION — This may produce undesirable results when post category spreads are done, since all investment is at one location.

4. Because the FRC relationships to an ECN are lost during the DRMA load, you may want to create some new ECN or combine ECN's by FRC to keep track of a particular investment.

You cannot run a study if you change the data contained in this table and have not reloaded the investment data. If you try to run a study without reloading the data, TDIS-CES will not process the request and an appropriate message is displayed.

Figure 8-24 shows an example of the Location, ECN, FRC Mapping table. Access procedures are provided in Section 8.2. Procedures for moving from the Location, ECN, FRC Mapping table are provided in Section 8.3.

```
---------------  T/DIS-CES LOCATION, ECN AND FRC MAPPING T  ROW 15 TO 29 OF 29
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC=> *             ECN5=> *      FRC=> *
NEWLOC =>           ECN3 =>       DATE =>
LOCATION     ECN5          FRC          NEWLOC        ECN3         DATE
--------     -----         -----        --------      ----         -----
             854                                      808          99/99
             859                                      861          99/99
             870                                      810          99/99
             877                                      876          99/99
             880                                      876          99/99
             881                                      876          99/99
             882                                      876          99/99
             897                                      808          99/99
             898                                      809          99/99
BTLRKYQ0     897                      BTLRKYBR        808          01/94
DRRGKYR8                              FLRNKYFL                     99/99
FLRNKYGA                              FLRNKYFL                     99/99
FLRNKYU2                              FLRNKYFL                     99/99
SGTEKYGA                              FLRNKYFL                     99/99
```

Figure 8-24. Location, ECN, FRC Mapping Table

8.10.1 Defining the Location, ECN, FRC Mapping Table

You can define many types of mapping combinations on this table, depending on the fields you choose to enter. Data entry in each field is optional, but at least a pair must be identified. Populate only the fields that define the map you are establishing. A blank field indicates that the map applies to any location, ECN, or FRC, depending on which field is blank. A blank Location field implies a global map for all locations not specified as location specific.

The load program uses this table to find the most specific map and applies that map first. The most specific map is by location, ECN, and FRC. After a map has been applied, the map table is no longer examined. If the load process fails to find the most specific map, it will continue to reduce the degree of match required for a map until:

- No global relationship is found
- A global map that applies to all locations is found.

An example of a global relationship is the ECN5 and the ECN3 columns only containing data. This example represents a global translate from one ECN to another for all locations.

Table 8-2 contains a description of each field on the Location, ECN, FRC Mapping table.

Table 8-2. Location, ECN, FRC Mapping Table Field Definitions

Field	Description
Action	Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.
LOC	Use the LOC field to specify the location-specific mapping. Fill in this field and the NEWLOC field if you want to map from one location to another location. Leave this field blank if you do not intend to fill in the NEWLOC field. This field blank indicates a global map for all locations except those where a specific location is identified.
ECN5	Use the ECN5 field to identify the ECN you are mapping from. If the LOC and NEWLOC fields are blank, you must fill in this five-character field. Leave this field blank if the LOC and NEWLOC fields are filled in to establish a one to one map of ECN when location mapping is done. This field may be populated when NEWLOC and LOC are populated if you want to map an ECN within a location.
FRC	Use the FRC field to specify FRC information if it is desired. This field is optional. If you fill in this field, you must also fill in the ECN5 and ECN3 fields. This value must be unique within the LOC and ECN5 fields.
NEWLOC	Use the NEWLOC field to specify the new location you are mapping to. The new location can be up to eight characters. Leave this field blank if you want to establish an ECN map within a location, if you have filled in the LOC. Fill in this field and the LOC field if you want to map from one location to another.
ECN3	Use the ECN3 field to specify the new ECN you are mapping to. If the LOC and NEWLOC fields are blank, you must fill in this 3-character field. Leave this field blank if the ECN5 field is blank. This three-character value cannot match the first three characters on the ECN5 field.
Date	Use the Date field to specify the month and year you are mapping the information. When you are adding, changing, or purging information you must enter a valid date. Leave the field blank or enter an asterisk when printing. When deleting, this field is ignored. When you leave this field blank, the system will automatically enter the default permanent date of 99/99. This date field is compared to the DRMA date. If it is equal to or greater than the DRMA date it is applied. If it is less than the DRMA date, the mapping will be ignored.

Table 8-3 shows the mapping relationships you can define and the corresponding action that results from the map. TDIS-CES find the most specific map and applies it. If TDIS-CES cannot find a specific map, it searches for a global map that applies. Once TDIS-CES applies a specific map, no further mapping is attempted.

Table 8-3. Mapping Relationships and Corresponding Action

LOC	ECN5	FRC	NEWLOC	ECN3	ACTION
	XXXXX			xxx	Global map of an ECN to a different ECN.
	XXXXX	XXXX		xxx	Global map of one ECN and FRC to another ECN.
XXXXXXXX	XXXXXX				Map of a location to a different location without a change of ECN.
XXXXXXXX	xxxxx			xxx	Map a location and ECN to a different ECN without changing locations.
XXXXXXXX	xxxxx	xxxx		xxx	Map a location, ECN and FRC to a different ECN in the same location.
XXXXXXXX	xxxxx		xxxxxx	xxx	Map a location and ECN5 to a new location and ECN.
XXXXXXXX	xxxxx	xxxx	xxxxxx		Map a location, ECN, FRC combination to a new location.
XXXXXXXX	xxxxx	xxxx	xxxxxx	xxx	Map a location, ECN, FRC combination to a new location and ECN.
	xxxx		xxxx		Global move an ECN to one location
		xxx	xxxx		Global move an FRC to one location.

8.10.2 Editing a Location, ECN, FRC Map

You can add, change, delete, and purge maps contained in this table using the Action field. To add, change, delete, and purge items, follow the steps below:

1. Enter **a**, **c**, **d**, or **u** in the Action field.
2. Fill in the fields for the map you want to establish if you are adding a map.

   Identify the map you are changing by entering the location and ECN in the LOC and ECN5 fields. Establish the changed map by entering the new values in the applicable fields.

   Identify the map you are deleting by entering the location and ECN in the LOC and ECN5 fields.

   To purge maps, enter an appropriate date. All rows with a date less than the entered date will be removed.
3. Press the ENTER key.

Figure 8-25 is an example of a map that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The map you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the map, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

```
---------------  T/DIS-CES LOCATION, ECN AND FRC MAPP          SUCCESSFUL ADD
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC=> ABLNMOAA      ECN5=> 80012  FRC=>  257C
NEWLOC =>           ECN3 => 808   DATE => 07/93
LOCATION     ECN5          FRC          NEWLOC        ECN3         DATE
--------     -----         -----        --------      ----         -----
ABLNMOAA     80012          257C        ABLNMOAA      808          07/93
ABLNMOAB     80012          257C        ABLNMOAB      809          07/93
ABLNMOCC     80012          257C        ABLNMODC      808          12/93
ABLNMOCC     80022          257C        ABLNMODC      806          11/93
ABLNMOCD     80002          257C        ABLNMODC      808          12/93
ABLNMOCD     80012          257C        ABLNMORC      808          11/93
ABLNMOCD     80112          257C        ABLNMORC      808          09/93
ABLNMOCD     80212          257C        ABLNMORC      808          08/93
ABLNMOCD     80312          257C        ABLNMORC      808          08/93
ABLNMOCD     80412          257C        ABLNMORC      808          08/93
```

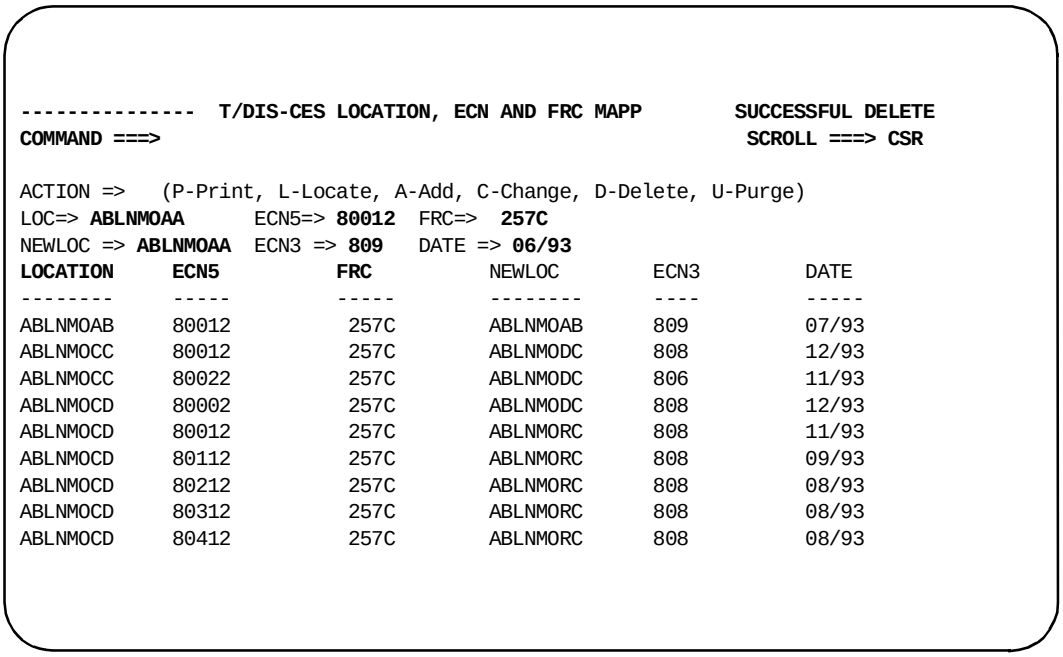
Figure 8-25. Adding to the Location, ECN, FRC Mapping Table

Figure 8-26 is an example of a map that has been successfully changed. The changed map becomes the first map displayed on the screen. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
---------------  T/DIS-CES LOCATION, ECN AND FRC MAPP        SUCCESSFUL CHANGE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC=> ABLNMOAA      ECN5=> 80012  FRC=>  257C
NEWLOC =>           ECN3 => 809   DATE => 06/93
LOCATION     ECN5          FRC          NEWLOC        ECN3         DATE
--------     -----         -----        --------      ----         -----
ABLNMOAA     80012          257C        ABLNMOAA      809          06/93
ABLNMOAB     80012          257C        ABLNMOAB      809          07/93
ABLNMOCC     80012          257C        ABLNMODC      808          12/93
ABLNMOCC     80022          257C        ABLNMODC      806          11/93
ABLNMOCD     80002          257C        ABLNMODC      808          12/93
ABLNMOCD     80012          257C        ABLNMORC      808          11/93
ABLNMOCD     80112          257C        ABLNMORC      808          09/93
ABLNMOCD     80212          257C        ABLNMORC      808          08/93
ABLNMOCD     80312          257C        ABLNMORC      808          08/93
ABLNMOCD     80412          257C        ABLNMORC      808          08/93
```

Figure 8-26. Changing the Location, ECN, FRC Mapping Table

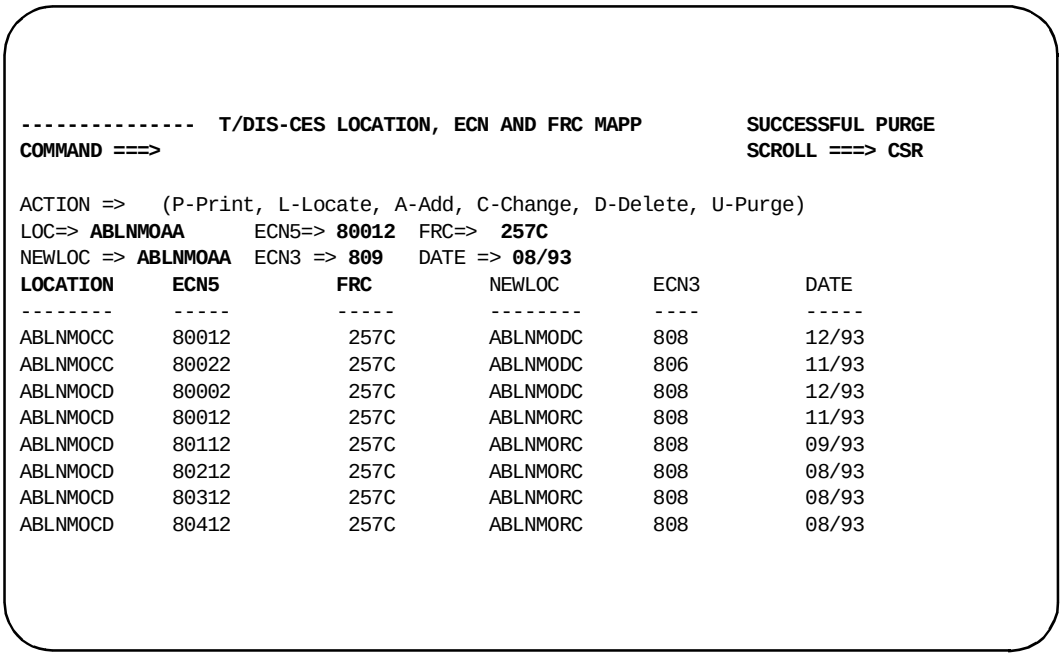
Figure 8-27 shows an example of a map that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The relationship immediately above the one you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.



```
---------------  T/DIS-CES LOCATION, ECN AND FRC MAPP        SUCCESSFUL DELETE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC=> ABLNMOAA      ECN5=> 80012  FRC=>  257C
NEWLOC => ABLNMOAA  ECN3 => 809   DATE => 06/93
LOCATION     ECN5          FRC          NEWLOC        ECN3         DATE
--------     -----         -----        --------      ----         -----
ABLNMOAB     80012          257C        ABLNMOAB      809          07/93
ABLNMOCC     80012          257C        ABLNMODC      808          12/93
ABLNMOCC     80022          257C        ABLNMODC      806          11/93
ABLNMOCD     80002          257C        ABLNMODC      808          12/93
ABLNMOCD     80012          257C        ABLNMORC      808          11/93
ABLNMOCD     80112          257C        ABLNMORC      808          09/93
ABLNMOCD     80212          257C        ABLNMORC      808          08/93
ABLNMOCD     80312          257C        ABLNMORC      808          08/93
ABLNMOCD     80412          257C        ABLNMORC      808          08/93
```

Figure 8-27. Deleting from Location, ECN, FRC Mapping Table

Figure 8-28 shows an example of a map that has been successfully purged. The message SUCCESSFUL PURGE is displayed in the upper right corner of the screen. The relationship immediately above the one you purged becomes the first record displayed on your screen. If TDIS-CES was unable to purge your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.



```
---------------  T/DIS-CES LOCATION, ECN AND FRC MAPP          SUCCESSFUL PURGE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC=> ABLNMOAA      ECN5=> 80012  FRC=>  257C
NEWLOC => ABLNMOAA  ECN3 => 809   DATE => 08/93
LOCATION     ECN5          FRC          NEWLOC        ECN3         DATE
--------     -----         -----        --------      ----         -----
ABLNMOCC     80012          257C        ABLNMODC      808          12/93
ABLNMOCC     80022          257C        ABLNMODC      806          11/93
ABLNMOCD     80002          257C        ABLNMODC      808          12/93
ABLNMOCD     80012          257C        ABLNMORC      808          11/93
ABLNMOCD     80112          257C        ABLNMORC      808          09/93
ABLNMOCD     80212          257C        ABLNMORC      808          08/93
ABLNMOCD     80312          257C        ABLNMORC      808          08/93
ABLNMOCD     80412          257C        ABLNMORC      808          08/93
```

Figure 8-28. Purging from Location, ECN, FRC Mapping Table

8.11 No 800 Spread ECN Table (Option N)

This table defines the ECNs to which no 800 ECN investment should be distributed. You use this table to prevent 800 ECN dollars from being spread to an ECN. For example, if you know that the 800 investment in your company is from old technology equipment, then you would place all new technology ECN's in this table (i.e., 813, 814, etc.).

Figure 8-29 shows an example of the No 800 Spread ECN table. Access procedures are provided in Section 8.2. Procedures for moving from the No 800 Spread ECN table are provided in Section 8.3.

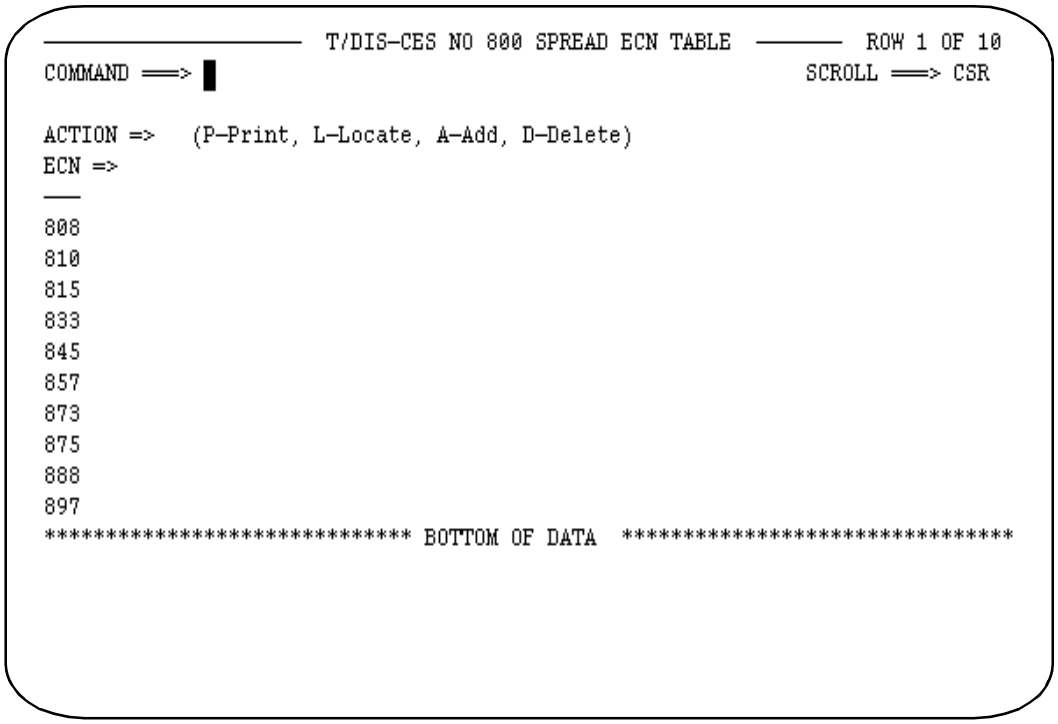


Figure 8-29. No 800 Spread ECN Table

8.11.1 Defining the No 800 Spread ECN Table

This table contains two fields:

1. Action
2. ECN

Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.

Use the ECN field to specify the ECNs you are adding or deleting. You can specify one three-character ECN in this field. If you want to locate a specific ECN, enter the ECN you want to locate in this field and **l** in the Action field.

8.11.2 Adding ECNs to the No 800 Spread ECN Table

You select the add action when you want to add an ECN to the Study Area ECN Table. To add an ECN, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the ECN you want to add in the ECN field. Enter just one ECN at a time.
3. Press the ENTER key.

Figure 8-30 is an example of an ECN that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The ECN you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the ECN, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

```
———————————————— T/DIS-CES NO 800 SPREAD ECN TABLE ——— SUCCESSFUL ADD
COMMAND ===>                                          SCROLL ===> CSR

ACTION => ▌ (P-Print, L-Locate, A-Add, D-Delete)
ECN => 801
———
801
802
810
815
833
845
857
873
875
888
897
898
****************************** BOTTOM OF DATA  *******************************
```

Figure 8-30. Adding ECNs to the No 800 Spread ECN Table

8.11.3 Deleting ECNs from the No 800 Spread ECN Table

You select the delete action when you want to delete ECNs from the No 800 Spread ECN table. To delete ECNs, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the ECN you want to delete in the ECN field. Enter just one ECN at a time.
3. Press the ENTER key.

Figure 8-31 shows an example of an ECN that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The ECN immediately above the ECN you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

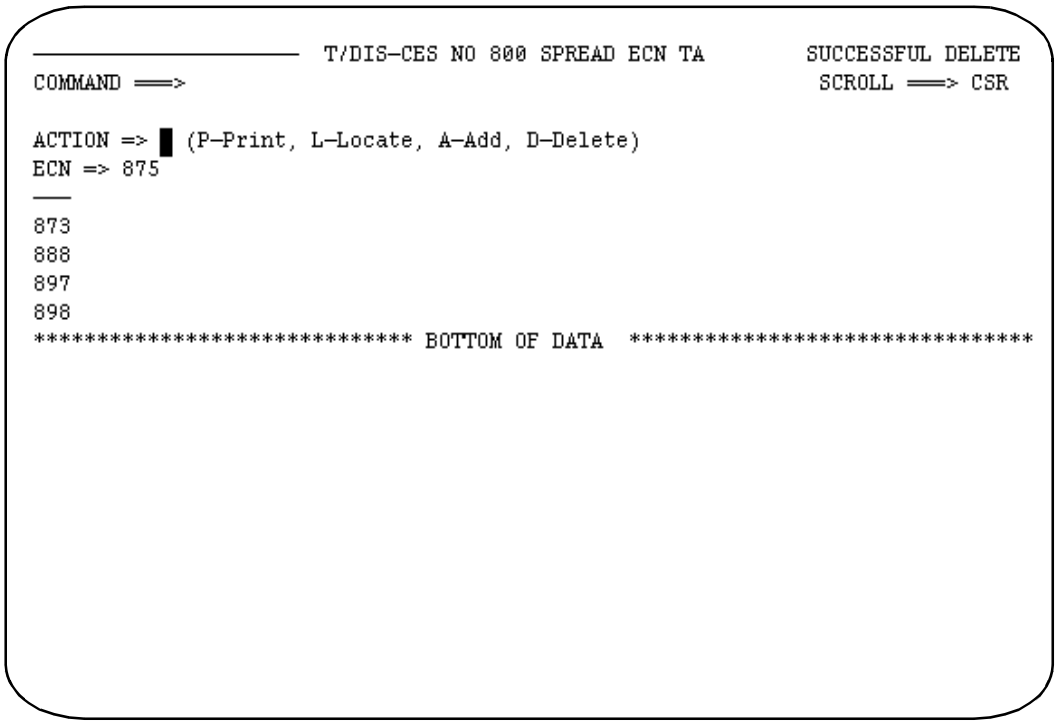


Figure 8-31. Deleting ECNs from the No 800 Spread ECN Table

8.12 Class Code to Separations Category Table (Option S)

This table contains all the class codes provided by TDIS and their associated circuit equipment separations category.

> **NOTE —** You cannot delete a record if its separation category is the last occurrence in the table and can be found in the Carrier Distribution or ICAC tables.
>
> You cannot delete a record if its class code can be found in the HICAP Class Code table.

Figure 8-32 shows an example of the Class Code to Separations Category table. Access procedures are provided in Section 8.2. Procedures for moving from the Class Code to Separations Category table are provided in Section 8.3.

```
 ------------------  T/DIS-CES CLASS CODE TO SEP CAT TABL  ROW 1 TO 17 OF 319
COMMAND ===>                                               SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete,
             1-Sort by DR Category, 2-Sort by DR Class Code)
SEPARATIONS CATEGORY => *              CLASS CODE => *
--------------------                   ----------
 4.CXR                                  DX
 4.CXR                                  HA
 4.CXR                                  HB
 4.CXR                                  HC
 4.CXR                                  HD
 4.CXR                                  HF
 4.CXR                                  HG
 4.CXR                                  LC
 4.CXR                                  XA
 4.CXR                                  XB
 4.CXR                                  XF
 4.CXR                                  XI
 4.CXR                                  XJ
 4.CXR                                  XR
 4.CXR                                  X2
```

Figure 8-32. Class Code to Separations Category Table

8.12.1 Defining the Class Code to Separations Category Table

This table contains three fields:

1. Action
2. Separations Category
3. Class Code

Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.

In addition to the standard actions, you can also sort the table either by the DR category or by the DR class code.

Use the Separations Category field to specify the separations category you are associating with the class code. The separations category consists of up to 10 characters, and must begin with the number four followed by a period (.).

Use the Class Code field to specify the class code you want to associate with the category. The class code consists of one to four characters. You cannot associate a class code with more than one separations category.

8.12.2 Adding a Class Code to Separations Category Association

You select the add action when you want to add a new class code and separations category association on the Separations Category to Class Code table. To add a class code and separations category association, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the separations category code you are adding in the Separations Category field.
3. Enter the class code you are associating with the separations category in the Class Code field.
4. Press the ENTER key.

Figure 8-33 is an example of a successful separations category to class code association. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The class code you just added becomes the first record displayed on your screen. If TDIS-CES was unable to add the class code, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

```
 ------------------  T/DIS-CES CLASS CODE TO SEP CAT TABL      SUCCESSFUL ADD
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete,
             1-Sort by DR Category, 2-Sort by DR Class Code)
SEPARATIONS CATEGORY => 4.13AB         CLASS CODE => CC
--------------------                   ----------
```

Figure 8-33. Adding a Class Code to Separations Category

8.12.3 Changing a Class Code to Separations Category Association

You select the change action when you want to associate a different separations category with an existing class code. To change the separations category, follow the procedures below:

1. Enter **c** in the Action field.
2. Enter the new separations category in the Separations Category field.
3. Enter the class code that is associated with the separations category you are changing.
4. Press the ENTER key.

Figure 8-34 is an example of a separations category that has been successfully changed. The changed record becomes the first record displayed on the screen. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
 ------------------  T/DIS-CES CLASS CODE TO SEP CAT TABL   SUCCESSFUL CHANGE
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete,
             1-Sort by DR Category, 2-Sort by DR Class Code)
SEPARATIONS CATEGORY => 4.NRP          CLASS CODE => YY
--------------------                   ----------
 4.CXR                                  DX
 4.CXR                                  HA
 4.CXR                                  HB
 4.CXR                                  HC
 4.CXR                                  HD
 4.CXR                                  HF
 4.CXR                                  HG
 4.CXR                                  LC
 4.CXR                                  XA
 4.CXR                                  XB
 4.CXR                                  XF
 4.CXR                                  XI
 4.CXR                                  XJ
 4.CXR                                  XR
 4.CXR                                  X2
```

Figure 8-34. Changing a Class Code to Separations Category

8.12.4 Deleting a Class Code to Separations Category Association

You select the delete action when you want to delete a class code's association with a separations category on the Class Code to Separations Category table. To delete an association, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the separations category you are deleting in the Separations Category field.
3. Enter the class code associated with the separations category you are deleting in the Class Code field.
4. Press the ENTER key.

Figure 8-35 shows an example of a class code to separations category association that has been successfully deleted. The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. The class code to separations category association immediately above the associations you deleted becomes the first record displayed on your screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
 ------------------  T/DIS-CES CLASS CODE TO SEP CAT TABL   SUCCESSFUL DELETE
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete,
             1-Sort by DR Category, 2-Sort by DR Class Code)
SEPARATIONS CATEGORY => 4.CXR          CLASS CODE => DX
--------------------                   ----------
 4.CXR                                  HA
 4.CXR                                  HB
 4.CXR                                  HC
 4.CXR                                  HD
 4.CXR                                  HF
 4.CXR                                  HG
 4.CXR                                  LC
 4.CXR                                  XA
 4.CXR                                  XB
 4.CXR                                  XF
 4.CXR                                  XI
 4.CXR                                  XJ
 4.CXR                                  XR
 4.CXR                                  X2
```

Figure 8-35. Deleting a Class Code to Separations Association

8.12.5 Sorting a Class Code to Separations Category Table

By default, the table is sorted by the Separations (DR) Category. If you wish, you can sort the table by the DR class code.

1. Enter **2** in the Action field.
2. Press the ENTER key.

Figure 8-36 shows an example of a table sorted by the DR class code. If you want to return the table to the default state (sorted by the DR Category), enter **1** in the Action field and press the ENTER key.

```
 ------------------  T/DIS-CES CLASS CODE TO SEP CAT TABL  ROW 1 TO 17 OF 319
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete,
             1-Sort by DR Category, 2-Sort by DR Class Code)
SEPARATIONS CATEGORY => *              CLASS CODE => *
--------------------                   ----------
 4.WBISERS                              AB
 4.WBSTERS                              AC
 4.WBISERI                              AE
 4.WBISERI                              AF
 4.12MSGMXD                             AG
 4.13                                   AH
 4.13                                   AI
 4.13                                   AJ
 4.13                                   AK
 4.12PLEXCH                             AL
 4.12PLIS                               AM
 4.NRP                                  AN
 4.WBISERS                              AP
 4.WBSTRAI                              AQ
 4.WBSTRAI                              AR
```

Figure 8-36. Sorting a Class Code to Separations Association

8.13 Supplemental Investment Table (Option SI)

This table provides the capability for creating month sensitive supplemental investment data. When an investment load is done, all supplemental investment data that has a date less than the DRMA date will be ignored. All supplemental investment data that is greater than or equal to the DRMA date will be accepted. This table should be reviewed each month prior to a load to insure that corrections that have been implemented in DRMA are removed. The other method for insuring corrections would be to make the data the same as the applicable month, in which case, the next month's load of DRMA will ignore the previous months.

Figure 8-37 shows an example of the Supplemental Investment table. Access procedures are provided in Section 8.2. Procedures for moving from the Supplemental Investment table are provided in Section 8.3.

```
-----------------  T/DIS-CES SUPPLEMENTAL INVESTMENT TABLE  -----------------
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC => *          FRC => *       ECN => *     CS => *   PW => *
INVESTMENT ADJUSTMENT =>                 DATE =>
LOCATION     FRC     ECN       CS      PW      INV  ADJUST    DATE
--------    -----    ---       --      --      -----------    -----
AAAAMOAB    1257C    805       N       Y            75,000    12/99
AAAAMOAC    1257C    806       Y       N             6,000    12/99
```

Figure 8-37. Supplemental Investment Table

8.13.1 Defining the Supplemental Investment Table

Table 8-4 contains a description of each field on the Supplemental Investment table.

Table 8-4. Supplemental Investment Table Field Definitions

Field	Description
Action	Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.
LOC	Use the LOC field to specify the location.
FRC	This field is an enterable field. When performing an add, change, or delete action, you must enter a valid FRC. When performing a locate action, you can enter an FRC or an asterisk.
ECN	This field is an enterable field. You will use it when you are adding, changing, or deleting ECNs. When you want to locate a specific ECN, you enter it in this field, and select **L** in the Action field. See Section 2.10 for a description of the ECN field.
CS	You must enter **Y** or **N** when performing an add, change, or delete action.
PW	You must enter **Y** or **N** when performing an add, change, or delete action, you must enter a valid FRC.
INVESTMENT ADJUSTMENT	This is the amount of investment to add or subtract at the location.
Date	Enter a valid date using the form MM/YY.

8.13.2 Adding Supplemental Investment Information

You select the add action when you want to add supplemental investment information. To add supplemental investment information, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the necessary information in the LOC, FRC, ECN, CS, PW, INVESTMENT ADJUSTMENT, and DATE fields.
3. Press the ENTER key.

Figure 8-38 is an example of a supplemental investment that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The new record becomes the first record displayed on the screen. If TDIS-CES was unable to add your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
-----------------  T/DIS-CES SUPPLEMENTAL INVESTMENT          SUCCESSFUL ADD
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC => AAAAMOAD   FRC => 1257C   ECN => 808   CS => Y   PW => Y
INVESTMENT ADJUSTMENT =>   2500          DATE => 12/96
LOCATION     FRC     ECN       CS      PW      INV  ADJUST    DATE
--------    -----    ---       --      --      -----------    -----
AAAAMOAD    1257C    808       Y       Y             2,500    12/96
****************************** BOTTOM OF DATA ********************************
```

Figure 8-38. Adding Supplemental Investment Information

8.13.3 Changing Supplemental Investment Information

You select the change action when you want to change existing supplemental investment information. To change supplemental investment information, follow the procedures below:

1. Enter **c** in the Action field.
2. Enter existing information in the LOC, FRC, ECN, CS, and PW fields.
3. Enter the new or existing information in the INVESTMENT ADJUSTMENT and DATE fields.
4. Press the ENTER key.

Figure 8-39 is an example of supplemental investment information that has been successfully changed. The changed record becomes the first record displayed on the screen. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

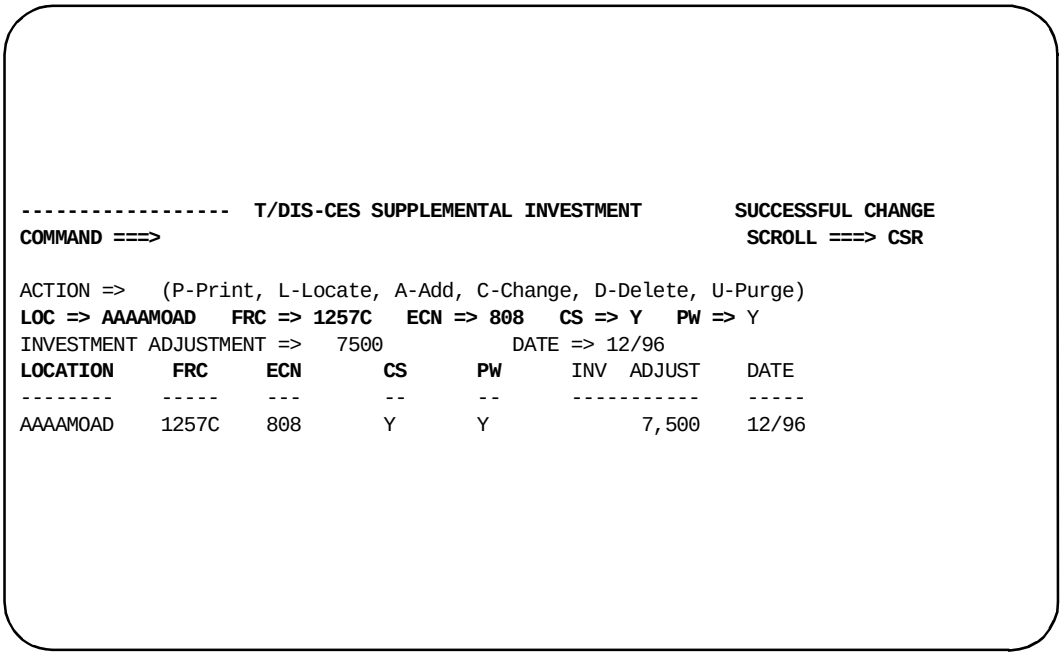


Figure 8-39. Changing Supplemental Investment Information

8.13.4 Deleting Supplemental Investment Information

You select the delete action when you want to delete existing supplemental investment information. To delete supplemental investment information, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter existing information in the LOC, FRC, ECN, CS, and PW fields.
3. Press the ENTER key.

Figure 8-40 is an example of supplemental investment information that has been successfully deleted. The record above the deleted record becomes the first record displayed on the screen.

The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
------------------  T/DIS-CES SUPPLEMENTAL INVESTMENT        SUCCESSFUL DELETE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC => AAAAMOAA   FRC => 1257C   ECN => 804   CS => Y   PW => Y
INVESTMENT ADJUSTMENT =>   12,250         DATE => 12/99
LOCATION     FRC     ECN       CS      PW      INV  ADJUST    DATE
--------    -----    ---       --      --      -----------    -----
AAAAMOAB    1257C    805       N       Y            75,000    12/99
AAAAMOAC    1257C    806       Y       N             6,000    12/99
AAAAMOAD    1257C    808       Y       Y             7,500    12/96
```

Figure 8-40. Deleting Supplemental Investment Information

8.13.5 Purging Supplemental Investment Information

You select the purge action when you want to purge existing supplemental investment information before a certain date. To purge investment information, follow the procedures below:

1. Enter **u** in the Action field.
2. Enter a valid date.
3. Press the ENTER key.

When entering the date for purging, the process will purge all dates prior to but not including the entered date.

Figure 8-41 is an example of supplemental investment information that has been successfully purged. The purge does not include the entered month and year but all earlier dates.

The message SUCCESSFUL PURGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to purge your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
------------------  T/DIS-CES SUPPLEMENTAL INVESTMENT         SUCCESSFUL PURGE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC => *          FRC => *       ECN => *     CS => *   PW => *
INVESTMENT ADJUSTMENT =>                 DATE => 12/97
LOCATION     FRC     ECN       CS      PW      INV  ADJUST    DATE
--------    -----    ---       --      --      -----------    -----
AAAAMOAB    1257C    805       N       Y            75,000    12/99
AAAAMOAC    1257C    806       Y       N             6,000    12/99
```

Figure 8-41. Purging Supplemental Investment Information

8.14 Technology Weighting Table (Option T)

This table contains weighting factors for ECN and technology descriptor combinations. TDIS-CES accesses this table during the usage load. You use the Technology Weighting table to define technology descriptors for carriers.

> **NOTE —** This table cannot include any ECNs that are included on the Study Area ECN table.
>
> You cannot delete a record from this table if its TD is the last occurrence in the table and can be found in the Supplemental Usage Complements table.
>
> You cannot run a study if you change the data contained in this table and have not reloaded the usage data. If you try to run a study without reloading the data, TDIS-CES will not process the request and an appropriate message is displayed.

This table is used for the following purposes:

- Identify usage in an ECN that you want subdivided by technology
- Provide a factor to split the ECN investment into a technology identified ECN.

The descriptor codes can be developed from the TIRKS System TTS table FAC GROUP. Although the FAC GROUP is more than three characters, CES uses only the first three characters.

The source for the weight factor can be some form of the following:

- Broadguage cost for each technology type within an ECN
- Relative cost measure for the technology strata within an ECN.

For example, if a T1 level multiplexor is $1,000 and a T1C is $1,500, then the weight for T1 can be entered as 1,000 or 1.000. The type of units, i.e., dollars, ratio, must be the same for all entries.

Figure 8-42 shows an example of the Technology Weighting table. Access procedures are provided in Section 8.2. Procedures for moving from the Technology Weighting table are provided in Section 8.3.

.

```
--------------------  T/DIS-CES TECHNOLOGY WEIGHTING TABLE   ROW 1 TO 18 OF 25
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete)
ECN=> *      TECH DESCR=> *            WEIGHT =>
---          ----------                ------
808            PT1                     1.0000
808            T0                      0.1250
808            T1                      1.0000
808            T1C                     1.5000
808            T1S                     1.0000
808            T1U                     1.0000
808            T1Z                     1.0000
808            T17                     1.0000
808            T2                      0.7500
808            T2X                     0.7500
808            T2Z                     0.7500
809            PT1                     1.0000
809            T0                      1.0000
809            T01                     1.0000
809            T1                      1.0000
809            T1C                     1.5000
```

Figure 8-42. Technology Weighting Table

8.14.1 Defining the Technology Weighting Table

Table 8-5 contains a description for each field on the Technology Weighting Table.

Table 8-5. Technology Weighting Table Field Definitions

Field	Description
Action	Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.
ECN	This field is an enterable field. You will use it when you are adding, changing, or deleting ECNs. When you want to locate a specific ECN, you enter it in this field, and select **l** in the Action field. See Section 2.10 for a description of the ECN field.
TECH DESCR	This three-character field identifies the technology descriptor. The technology descriptor is compared to the value in the FAC GROUP field in the facility summary file to check if the sequence of any of the characters in the 11-character string match the value of the three character technology descriptor.

Table 8-5. Technology Weighting Table Field Definitions

Field	Description
Weight	This numeric field identifies the weight that is associated with the technology descriptor. Use this field to define how much weight different technology descriptors should carry for the same ECN. This value can be a fraction, a whole number, or a combination.

8.14.2 Adding Technology Descriptors

You select the add action when you want to add technology weighting information. To add weighting information, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter the ECN you are adding in the ECN field.
3. Enter the technology descriptor you are adding in the TECH DESCR field.
4. Enter the weight in the Weight field.
5. Press the ENTER key.

Figure 8-43 is an example of a technology weight that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The new record becomes the first record displayed on the screen. If TDIS-CES was unable to add your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
--------------------  T/DIS-CES TECHNOLOGY WEIGHTING          SUCCESSFUL ADD
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete)
ECN=> 808    TECH DESCR=> T4X          WEIGHT => 5.0000
---          ----------                ------
808            T4X                     5.0000
809            PT1                     1.0000
809            T0                      1.0000
809            T01                     1.0000
809            T1                      1.0000
809            T1C                     1.5000
809            T1S                     1.0000
809            T1U                     1.0000
809            T1Z                     1.0000
809            T17                     1.0000
813            T3X                     1.0000
813            T4X                     1.5000
814            T3X                     1.0000
814            T4X                     1.5000
814            T6X                     2.0000
```

Figure 8-43. Adding a Technology Descriptor

8.14.3 Changing Technology Descriptors

You select the change action when you want to change existing technology weighting information. To change weighting information, follow the procedures below:

1. Enter **c** in the Action field.
2. Enter the ECN in the ECN field to identify the record you want to change.
3. Enter the descriptor in the TECH DESCR field to identify the record you want to change.
4. Enter the new weight in the Weight field.
5. Press the ENTER key.

Figure 8-44 is an example of a technology weight that has been successfully changed. The changed record becomes the first record displayed on the screen. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
--------------------  T/DIS-CES TECHNOLOGY WEIGHTING         SUCCESSFUL CHANGE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete)
ECN=> 808    TECH DESCR=> T4X          WEIGHT => 4.0000
---          ----------                ------
808            T4X                     4.0000
809            PT1                     1.0000
809            T0                      1.0000
809            T01                     1.0000
809            T1                      1.0000
809            T1C                     1.5000
809            T1S                     1.0000
809            T1U                     1.0000
809            T1Z                     1.0000
809            T17                     1.0000
813            T3X                     1.0000
813            T4X                     1.5000
814            T3X                     1.0000
814            T4X                     1.5000
814            T6X                     2.0000
```

Figure 8-44. Changing a Technology Descriptor

8.14.4 Deleting Technology Descriptors

You select the delete action when you want to delete existing technology weighing information. To delete weighting information, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter the ECN in the ECN field to identify the record you want to delete.
3. Enter the descriptor in the TECH DESCR field to identify the record you want to delete.
4. Press the ENTER key.

Figure 8-45 is an example of a technology weight that has been successfully deleted. The record above the deleted record becomes the first record displayed on the screen. You do not need to enter the weight of the record you are deleting. The ECN and Descriptor fields identify the record you want to delete.

The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
--------------------  T/DIS-CES TECHNOLOGY WEIGHTING         SUCCESSFUL DELETE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete)
ECN=> 808    TECH DESCR=> T4X          WEIGHT => 4.0000
---          ----------                ------
808            T2Z                     0.7500
809            PT1                     1.0000
809            T0                      1.0000
809            T01                     1.0000
809            T1                      1.0000
809            T1C                     1.5000
809            T1S                     1.0000
809            T1U                     1.0000
809            T1Z                     1.0000
809            T17                     1.0000
813            T3X                     1.0000
813            T4X                     1.5000
814            T3X                     1.0000
814            T4X                     1.5000
814            T6X                     2.0000
```

Figure 8-45. Deleting a Technology Descriptor

8.15 Supplemental Usage Table (Option U)

The Supplemental Usage screen allows you to perform the following:

- Access supplemental complement or subdivision data
- Define or add additional usage for a location and ECN and TD
- Purge records based on the DATE field.

To add subdivision data, the complement must exist.

During the usage load, the data is selected from the Complement and Subdivision tables by comparing the date on each record with the Control Date from the Usage Load Panel. If the date is greater than or equal to the Control Date, the records are selected and merged with the TDIS usage data.

All dates equal to or greater than the DRMA date will be included. All dates less than the DRMA date will be ignored.

> **NOTE —** You must reload usage data if you change the supplemental usage and want to run a study. You cannot run a study if you change the data contained in these tables and have not reloaded the usage data. If you attempt to run a study without reloading the data, TDIS-CES will not process the request and an appropriate message is displayed.
>
> These tables cannot contain any non-blank TD's that do not appear on the Technology Weighting table.

Figure 8-46 shows an example of the Supplemental Usage table. Access procedures are provided in Section 8.2. Procedures for moving from the Supplemental Usage table are provided in Section 8.3.

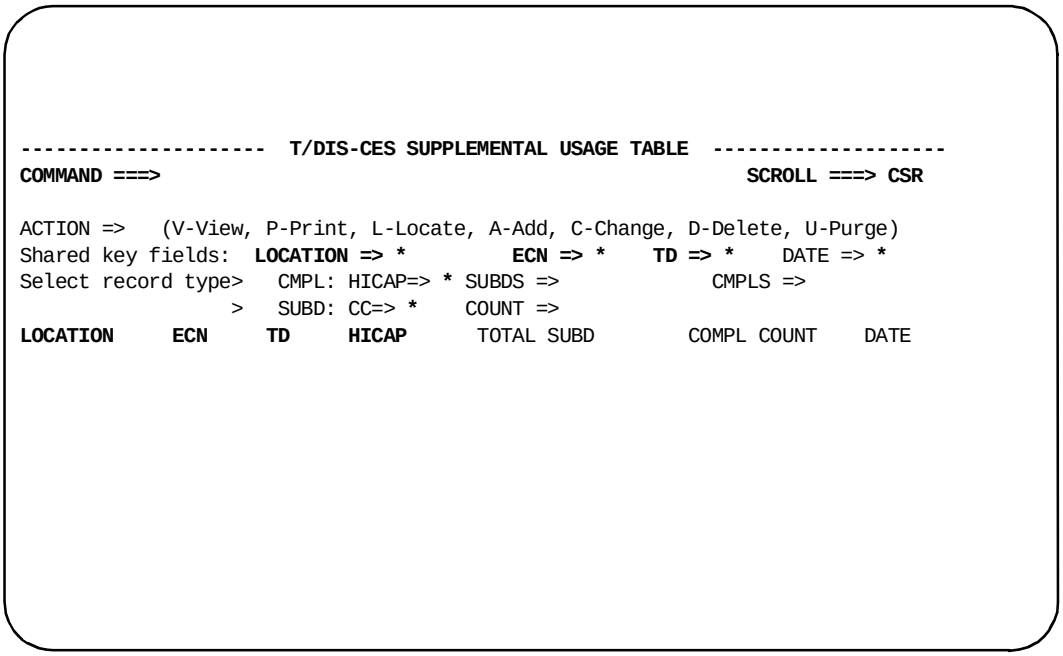


Figure 8-46. The Supplemental Usage Table

8.15.1 The Supplemental Usage Table Description

The Supplemental Usage screen provides access to the following tables that you view, establish, or edit supplemental usage records:

1. Supplemental Usage Complement table
2. Supplemental Usage Subdivision table

Lines two through seven appear on both screens; the fields that you use on each screen vary. Fields that are common to both screens and are used the same are described in Table 8-6.

Table 8-6. Fields Common to Supplemental Complement and Subdivision Usage Screens

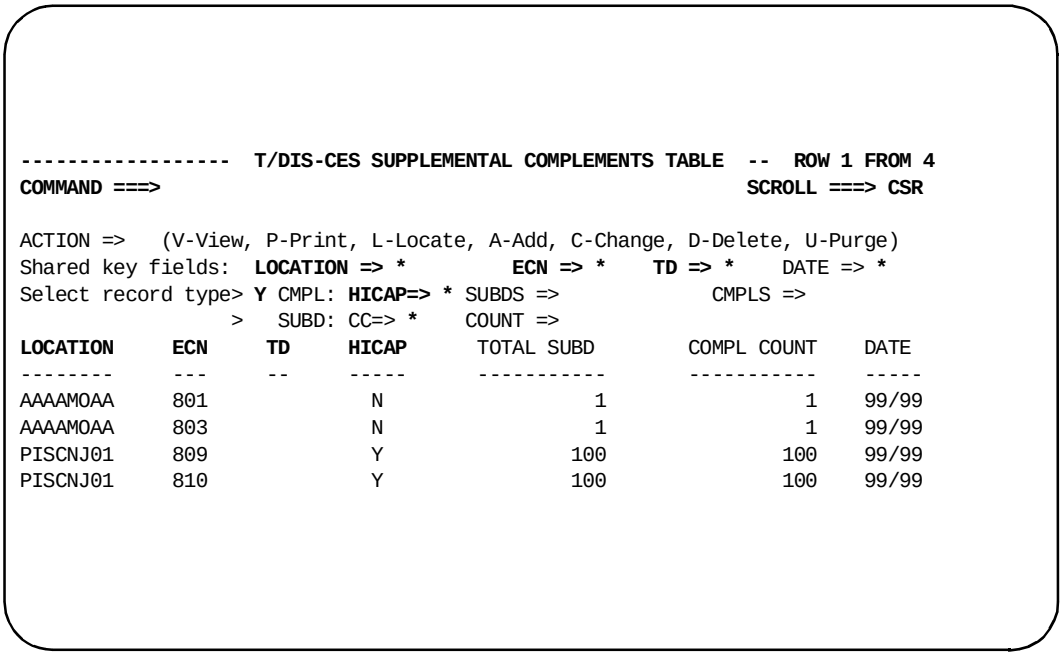
Field	Description
Action	Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.
Shared Key Fields	The shared key fields are location, ECN, technology descriptor. You use these fields with the Locate action to search for specific records; or you use these fields to identify the record you want to add, change, or delete.
Date	The Date field is used to establish whether this usage record is permanent or temporary. The standard format is MM/YY. If you leave this field blank when adding a record, the system will enter the default permanent date 99/99. This field is editable by using the change function. A subdivision record date **cannot** be greater than the lowest date of the complement record with the same keys as the subdivision at the LOC/ECN/TD (key level). When using the purge function, this date is used to delete/purge all records with a record date less than the date entered on the panel.
Select Record Type	Use this field to specify which supplemental usage table you want to access. Enter any value after the caret (>) and to the left of CMPL if you want to access complement data, or to the left of SUBD if you want to access subdivision data.

8.15.2 Accessing the Supplemental Usage Complements Table

Follow the procedures below to access the Supplemental Complements table:

1. Enter **v**, **p**, or **l** in the Action field.
2. Optionally, enter data in any of the shared key fields or HICAP field to display specific complement records.
3. Enter a value on the first line of the Select Record Type field.
4. Press the ENTER key.

Figure 8-47 shows an example of the Supplemental Usage Complements table.



```
-----------------  T/DIS-CES SUPPLEMENTAL COMPLEMENTS TABLE  --  ROW 1 FROM 4
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
Shared key fields:  LOCATION => *         ECN => *    TD => *    DATE => *
Select record type> Y CMPL: HICAP=> * SUBDS =>             CMPLS =>
                   >   SUBD: CC=> *    COUNT =>
LOCATION     ECN     TD     HICAP      TOTAL SUBD        COMPL COUNT    DATE
--------     ---     --     -----      -----------       -----------    -----
AAAAMOAA     801              N                 1                 1    99/99
AAAAMOAA     803              N                 1                 1    99/99
PISCNJ01     809              Y               100               100    99/99
PISCNJ01     810              Y               100               100    99/99
```

Figure 8-47. Supplemental Usage Complement Table

8.15.3 Defining the Supplemental Usage Complement Table

Table 8-7 contains a description for the fields you use only on the Supplemental Usage Complement table.

Table 8-7. Supplemental Usage Complement Table Field Definitions

Field	Description
HICAP	Enter **y** or **n** to indicate whether or not the record is a HICAP complement. An entry in this field is required if you are adding, changing, or deleting a record.
SUBDS	Enter the subdivision counts. The subdivision counts are used to split investment in an ECN between HICAP and non-HICAP. When setting the HICAP option to **Y**, this option should only be used for F-Facility load.
CMPLS	Enter the complement count. The complement counts are used during the technology splits of an ECN.

8.15.4 Editing a Supplemental Usage Complement Record

Options are provided on the Supplemental Usage Complement table that allow you to edit a complement record. To edit a complement record, follow the procedures below:

1. Enter **a**, **c**, or **d** in the Action field.
2. Enter values in each of the shared key fields.

   If you enter the **a**, **c**, or **p** action codes, enter a date in the Date field in the form MM/YY. If you leave this field blank, the system will default to the permanent date of 99/99. When deleting a record, this field is not checked, but will be populated with the date of the deleted record. You **cannot** change the complements date to be less than the greatest subdivision date for the same Location/ECN/TD key.
3. Enter a value on the first line of the Select Report Type option.
4. Enter **y** or **n** in the HICAP field.
5. Enter the subdivision counts in the SUBDS field if you are *adding* a record.

   If you are *changing* the subdivision count, enter the new count.

   Leave this field blank if you are *deleting* a record.
6. Enter the complement counts in the CMPLS field if you are *adding* a record.

   If you are *changing* the complement counts, enter the new count.

   Leave this field blank if you are *deleting* a record.
7. Press the ENTER key.

The record is processed and becomes the first line of data displayed on your screen if you selected add or change. If you selected delete, the record above the deleted record is the first line displayed. If you selected purge, the record above the purged record is the first line displayed. A successful update message is displayed in the upper right corner of the screen. If TDIS-CES was unable to process your request, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

Values you enter when editing a record are retained after TDIS-CES has finished processing your request, except the entry you made in the Action field.

Following a delete action, values are posted in the SUBDS, CMPLS, and DATE fields so you can add the record again if necessary.

When using the purge function on the Complement panel, all complement records with a record date less than the date you entered will be deleted, and, for **each** purged complement record, all subdivision records with matching Location/.ECN/TD keys will also be purged.

Figure 8-48 is an example of a complement record that has been successfully added.

```
------------------  T/DIS-CES SUPPLEMENTAL COMPLEMENT           SUCCESSFUL ADD
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
Shared key fields:  LOCATION => AAABMOAB  ECN => 801  TD =>      DATE => 09/96
Select record type> Y CMPL: HICAP=> Y SUBDS => 97          CMPLS => 95
                  >   SUBD: CC=> *    COUNT =>
LOCATION     ECN     TD     HICAP      TOTAL SUBD        COMPL COUNT    DATE
--------     ---     --     -----      ----------        -----------    -----
AAABMOAB     801             Y                97                95    09/96
PISCNJ01     809             Y               100               100    99/99
PISCNJ01     810             Y               100               100    99/99
```

Figure 8-48. Adding a Complement Record

Figure 8-49 is an example of a complement record that has been successfully changed.

```
-----------------  T/DIS-CES SUPPLEMENTAL COMPLEMENT        SUCCESSFUL CHANGE
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
Shared key fields:  LOCATION => AAABMOAB  ECN => 801  TD =>      DATE => 08/96
Select record type> Y CMPL: HICAP=> Y SUBDS => 997         CMPLS => 127
                  >   SUBD: CC=> *    COUNT =>
LOCATION     ECN     TD     HICAP      TOTAL SUBD        COMPL COUNT    DATE
--------     ---     --     -----      ----------        -----------    -----
AAABMOAB     801             Y               997               127    08/96
PISCNJ01     809             Y               100               100    99/99
PISCNJ01     810             Y               100               100    99/99
```

Figure 8-49. Changing a Complement Record

Figure 8-50 is an example of a complement record that has been successfully deleted.

```
-----------------  T/DIS-CES SUPPLEMENTAL COMPLEMENT        SUCCESSFUL DELETE
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
Shared key fields:  LOCATION => AAABMOAB  ECN => 801  TD =>      DATE => 08/96
Select record type> Y CMPL: HICAP=> Y SUBDS => 997         CMPLS => 127
                  >   SUBD: CC=> *    COUNT =>
LOCATION     ECN     TD     HICAP      TOTAL SUBD        COMPL COUNT    DATE
--------     ---     --     -----      ----------        -----------    -----
AAAAMOAA     803             N                 1                1    99/99
PISCNJ01     809             Y               100              100    99/99
PISCNJ01     810             Y               100              100    99/99
```

Figure 8-50. Deleting a Complement Record

Figure 8-51 is an example of a complement record that has been successfully purged.

```
-----------------  T/DIS-CES SUPPLEMENTAL COMPLEMENT         SUCCESSFUL PURGE
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
Shared key fields:  LOCATION => AAABMOAB  ECN => 801  TD =>      DATE => 09/96
Select record type> Y CMPL: HICAP=> Y SUBDS => 997         CMPLS => 127
                    >   SUBD: CC=> *    COUNT =>
LOCATION     ECN     TD     HICAP      TOTAL SUBD        COMPL COUNT    DATE
--------     ---     --     -----      ----------        -----------    -----
AAAAMOAA     801              N                1                 1    99/99
AAAAMOAA     803              N                1                 1    99/99
PISCNJ01     809              Y              100               100    99/99
PISCNJ01     810              Y              100               100    99/99
```

Figure 8-51. Purging a Complement Record

8.15.5 Defining the Supplemental Usage Subdivision Table

Table 8-8 contains a description for the fields you use only on the Supplemental Usage Subdivision table.

Table 8-8. Supplemental Usage Subdivision Table Field Definitions

Field	Description
CC	Enter the class code. See Section 2.8 for a description of this field. An entry in this field is required when you are adding, changing, or deleting a record.
COUNT	Enter the number of working subdivisions. This cumulative number must be less than or equal to the SUBDS count for the complement.

8.15.6 Editing a Supplemental Usage Subdivision Record

Options are provided on the Supplemental Usage Subdivision table that allow you to edit a subdivision record. To edit a subdivision record, follow the procedures below:

1. Enter **a**, **c**, or **d** in the Action field.
2. Enter values in each of the shared key fields.

   If you enter the **a**, **c**, or **p** action codes, enter a date in the Date field in the form MM/YY. If you leave this field blank, the system will default to the permanent date of 99/99. When deleting a record, this field is not checked, but will be populated with the date of the deleted record. You **cannot** change the subdivision date to be greater than the lowest complement date for the same Location/ECN/TD key.
3. Enter values on the first line of the Select Record Type option.
4. Enter the class code in the CC field.
5. Enter the subdivision counts in the Count field if you are *adding* a record.

   If you are *changing* the subdivision count, enter the new count.

   Leave this field blank if you are *deleting* a record.
6. Press the ENTER key.

The record is processed and becomes the first line of data displayed on your screen if you selected add or change. If you selected delete, the record above the deleted record is the first line displayed. If you selected purge, the record above the purged record is the first line displayed. A successful update message is displayed in the upper right corner of the screen. If TDIS-CES was unable to process your request, an appropriate message is displayed. Press the HELP key to determine the problem with your data.

Values you enter when editing a record are retained after TDIS-CES has finished processing your request.

After you have deleted a record, the COUNT and DATE fields are populated with the deleted count so you can add the record again if necessary.

When using the purge function on the subdivision panel, all subdivision records with a record date less than the date you entered will be deleted.

Figure 8-52 is an example of a subdivision record that has been successfully added.

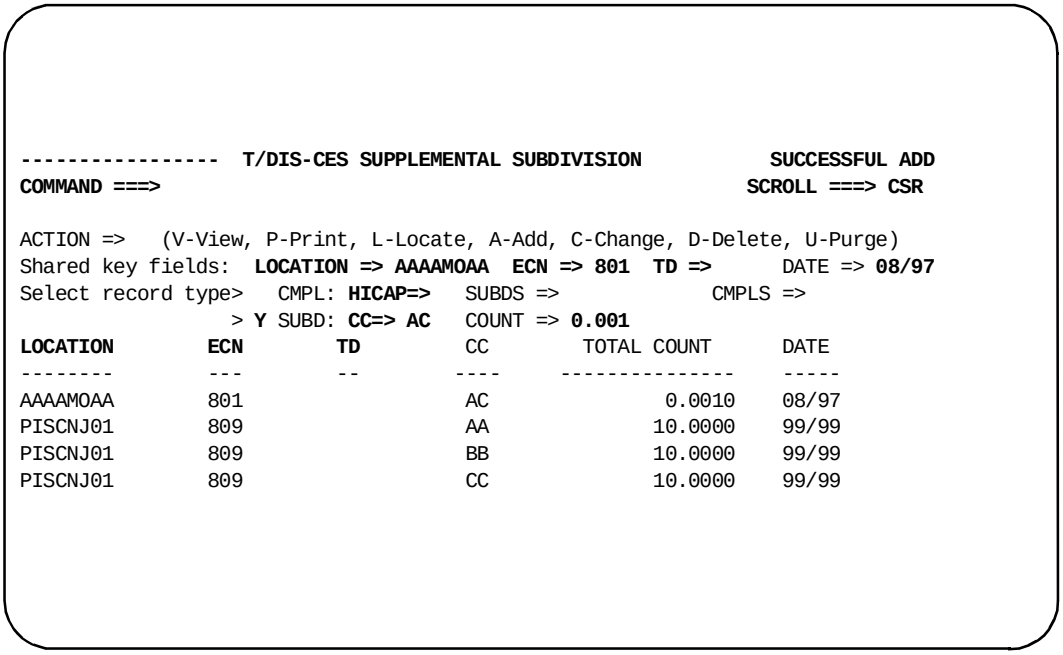


Figure 8-52. Adding a Subdivision Record

Figure 8-53 is an example of a subdivision record that has been successfully changed.

```
----------------  T/DIS-CES SUPPLEMENTAL SUBDIVISION        SUCCESSFUL CHANGE
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
Shared key fields:  LOCATION => AAAAMOAA  ECN => 801  TD =>      DATE => 09/97
Select record type>   CMPL: HICAP=>   SUBDS =>             CMPLS =>
                    > Y SUBD: CC=> AC   COUNT => 0.251
LOCATION        ECN         TD          CC        TOTAL COUNT      DATE
--------        ---         --         ----     ---------------    -----
AAAAMOAA        801                     AC               0.2510    09/97
PISCNJ01        809                     AA              10.0000    99/99
PISCNJ01        809                     BB              10.0000    99/99
PISCNJ01        809                     CC              10.0000    99/99
```

Figure 8-53. Changing a Subdivision Record

Figure 8-54 is an example of a subdivision record that has been successfully deleted.

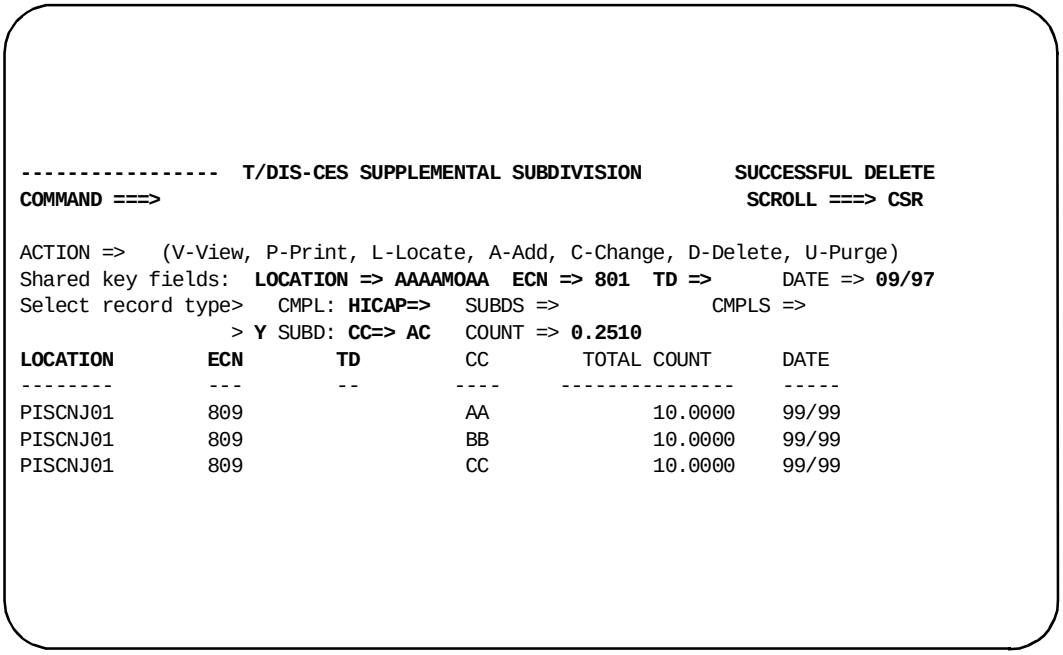


Figure 8-54. Deleting a Subdivision Record

Figure 8-55 is an example of a subdivision record that has been successfully purged.

```
-----------------  T/DIS-CES SUPPLEMENTAL SUBDIVISION         SUCCESSFUL PURGE
COMMAND ===>                                                  SCROLL ===> CSR

ACTION =>   (V-View, P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
Shared key fields:  LOCATION => AAAAMOAA  ECN => 801  TD =>      DATE => 10/97
Select record type>   CMPL: HICAP=>   SUBDS =>            CMPLS =>
                    > Y SUBD: CC=> AC   COUNT => 0.2510
LOCATION        ECN        TD         CC        TOTAL COUNT      DATE
--------        ---        --        ----     ---------------    -----
PISCNJ01        809                   AA              10.0000    99/99
PISCNJ01        809                   BB              10.0000    99/99
PISCNJ01        809                   CC              10.0000    99/99
```

Figure 8-55. Purging a Subdivision Record

8.16 Usage Mapping Table (Option UM)

This table provides the capability for mapping usage data.

Figure 8-56 shows an example of the Usage Mapping table. Access procedures are provided in Section 8.2. Procedures for moving from the Usage Mapping table are provided in Section 8.3.

```
----------------------  T/DIS-CES USAGE MAPPING TABLE  ----------------------
COMMAND ===>                                                 SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC => *            ECN => *        TD => *
NEW LOC =>          NEW ECN =>      NEW TD =>      DATE =>
LOCATION     ECN     TD          NEWLOC    NEWECN    NEWTD     DATE
--------     ---     ---        --------   ------    -----     -----
AAAAMOAB     804                AAABMOAA                       06/97
AAAAMOAC     806                AAAAMOAA                       12/99
AAAAMOAD     807                AAAAMOAA                       12/99
```

Figure 8-56. Usage Mapping Table

8.16.1 Defining the Usage Mapping Table

Table 8-9 contains a description of each field on the Usage Mapping table.

Table 8-9. Usage Mapping Table Field Definitions

Field	Description
ACTION	Use the Action field to specify the action you want TDIS-CES to take. See Section 2.8 for a description of the Action field.
LOC	Use the LOC field to specify the location.
ECN	This field is an enterable field. You will use it when you are adding, changing, or deleting ECNs. When you want to locate a specific ECN, you enter it in this field, and select **l** in the Action field. See Section 2.10 for a description of the ECN field.
TD	This field is an enterable field. When performing an add, change, or delete action, you must enter a valid three character Technical Descriptor (TD). When performing a locate action, you can enter a TD, a partial TD followed by an asterisk, just an asterisk, or a blank.
NEW LOC	Enter a new location or blank when performing an add or change action.
NEW ECN	Enter a new ECN or blank when performing an add or change action.
NEW TD	Enter a new TD or blank when performing an add or change action.
DATE	Enter a valid date using the form MM/YY. This is the month and year until which the mapping is effective.

NOTE — When adding or changing the NEW LOC, NEW ECN, and NEW TD fields may ***not*** all be blank.

8.16.2 Adding Usage Mapping Information

You select the add action when you want to add usage mapping information. To add usage mapping information, follow the procedures below:

1. Enter **a** in the Action field.
2. Enter valid data in the LOC and ECN fields.
3. Enter valid data in the NEW LOC, NEW ECN, and/or NEW TD fields. You must enter data in at least one of these fields.
4. Enter a valid date in the DATE field.
5. Press the ENTER key.

Figure 8-57 is an example of usage mapping information that has been successfully added. The message SUCCESSFUL ADD is displayed in the upper right corner of the screen. The new record becomes the first record displayed on the screen. If TDIS-CES was unable to add your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

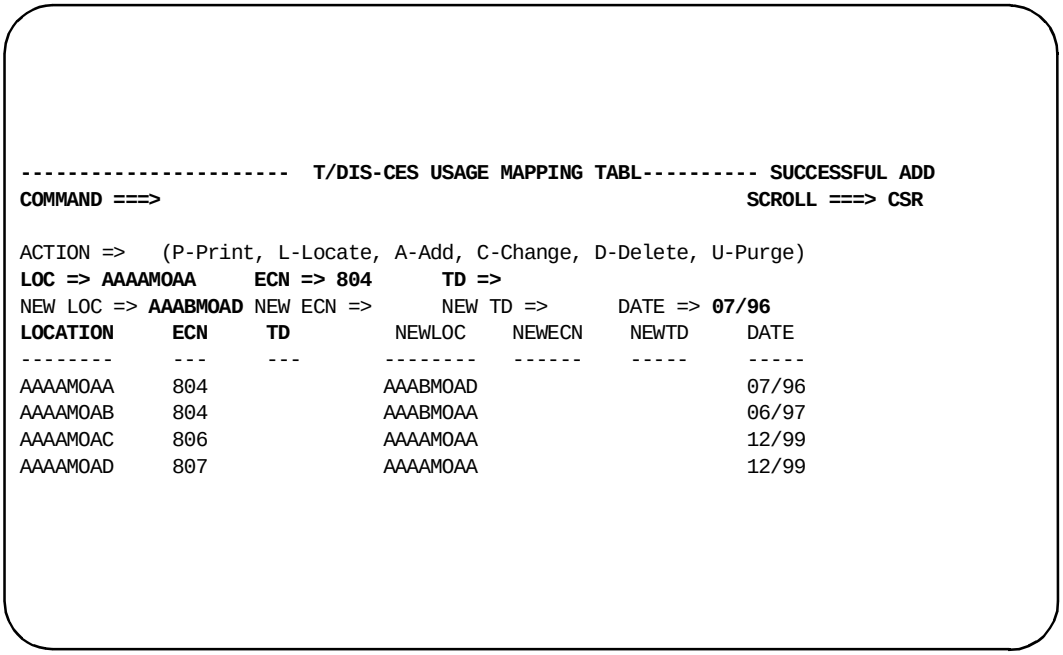


Figure 8-57. Adding Usage Mapping Information

8.16.3 Changing Usage Mapping Information

You select the change action when you want to change existing usage mapping information. To change usage mapping information, follow the procedures below:

1. Enter **c** in the Action field.
2. Enter valid data in the LOC and ECN fields.
3. Enter valid data in the NEW LOC, NEW ECN, and/or NEW TD fields. You must enter data in at least one of these fields.
4. Enter a valid date in the DATE field.
5. Press the ENTER key.

Figure 8-58 is an example of usage mapping information that has been successfully changed. The changed record becomes the first record displayed on the screen. The message SUCCESSFUL CHANGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to change your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
----------------------  T/DIS-CES USAGE MAPPING TABLE  ---- SUCCESSFUL CHANGE
COMMAND ===>                                                SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC => AAAAMOAD     ECN => 807      TD =>
NEW LOC =>          NEW ECN => 808  NEW TD =>      DATE => 08/96
LOCATION     ECN     TD          NEWLOC    NEWECN    NEWTD     DATE
--------     ---     ---        --------   ------    -----     -----
AAAAMOAD     807                           808                 08/96
```

Figure 8-58. Changing Usage Mapping Information

8.16.4 Deleting Usage Mapping Information

You select the delete action when you want to delete existing usage mapping information. To delete usage mapping information, follow the procedures below:

1. Enter **d** in the Action field.
2. Enter valid data in the LOC and ECN fields.
3. If applicable, enter valid data in the NEW LOC, NEW ECN, NEW TD and/or DATE fields.
4. Press the ENTER key.

Figure 8-59 is an example of usage mapping information that has been successfully deleted. The record above the deleted record becomes the first record displayed on the screen.

The message SUCCESSFUL DELETE is displayed in the upper right corner of the screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

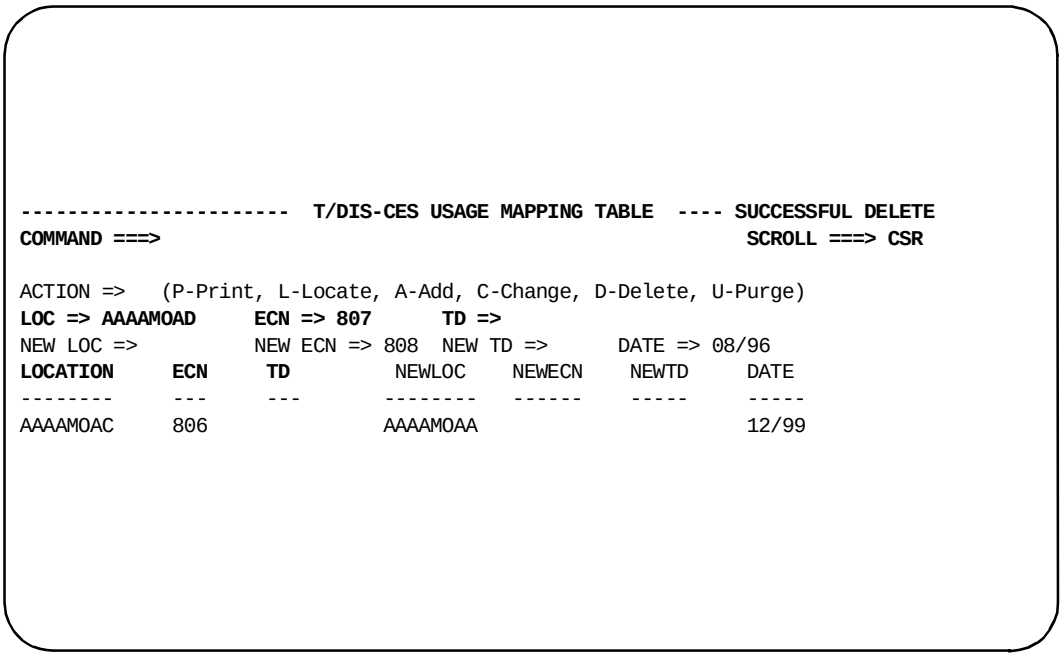


Figure 8-59. Deleting Usage Mapping Information

8.16.5 Purging Usage Mapping Information

You select the purge action when you want to purge existing usage mapping information before a certain date. To purge usage mapping information, follow the procedures below:

1. Enter **u** in the Action field.
2. Enter a valid date in the DATE field.
3. Press the ENTER key.

Figure 8-60 is an example of usage mapping information that has been successfully purged. Only dates prior to the entered month and year are purged.

The message SUCCESSFUL PURGE is displayed in the upper right corner of the screen. If TDIS-CES was unable to delete your record, an appropriate message is displayed. Press the HELP key to determine the problem with your entry.

```
----------------------  T/DIS-CES USAGE MAPPING TABLE  ----- SUCCESSFUL PURGE
COMMAND ===>                                               SCROLL ===> CSR

ACTION =>   (P-Print, L-Locate, A-Add, C-Change, D-Delete, U-Purge)
LOC => *            ECN => *        TD => *
NEW LOC =>          NEW ECN =>      NEW TD =>      DATE => 02/97
LOCATION     ECN     TD          NEWLOC    NEWECN    NEWTD     DATE
--------     ---     ---       --------   ------    -----     -----
AAAAMOAB     804               AAABMOAA                       06/97
AAAAMOAC     806               AAAAMOAA                       12/99
```

Figure 8-60. Purging Usage Mapping Information

9. Releasing Locks

Occasionally when you try to access investment or usage you may receive a message indicating that you cannot update the table. This message results from one of the following:

- You time-out during an update session
- The system crashes during an update session
- The program abends during an update session
- You and another user are trying to access the same table simultaneously.

9.1 Programs Invoking the Lock

The following functions activate the lock:

- the basic study locks both usage and investment
- usage load locks usage
- investment load locks investment.

Access to the Analyze/Adjust Usage and Analyze/Adjust Investment screens is locked during additions, changes, or deletions. These locks are released as soon as the update has been performed.

Match usage and investment checks to verify that tables are not locked prior to execution. However, Match does not activate the locks.

9.2 Using the Lock Release Commands

You can release a lock only if you are the user holding the lock. The commands to release locks are listed on the TDIS-CES Main Menu, and are identified below:

1. RI — releases the lock on the Investment table
2. RU — releases the lock on the Usage table

To release a lock, follow the procedures below:

1. Enter **RI** or **RU** in the Option field on the TDIS-CES Main Menu.
2. Press the ENTER key.

Depending on the lock you selected to release, one of the following messages appears if the command was successful:

```
INV Table lock released
USG Table lock released
```

If another user is holding the lock and the command was unsuccessful, a message identifying the user is displayed. Contact the system administrator to release the lock.

10. Status Displays

The Status Report screen shows you the status of the TDIS-CES data since the last time investment or usage data was loaded, or the basic study was executed. This report helps you analyze other reports and displays TDIS-CES generates.

There are two types of status reports:

1. Main Status report
2. Function-Specific Status report

10.1 Main Status Report

The Main Status report identifies all the tables with changes, and the steps to take to incorporate those changes into TDIS-CES. This report provides the following information:

1. A list of all the user tables that affect how TDIS-CES generates views and reports, with an asterisk next to the tables containing changes
2. The user id of the person who made the change
3. The date and time of the change
4. What actions you must take to incorporate those table changes into TDIS-CES reports and displays.

10.1.1 Access Method

Use either of the following methods to access the Main Status report:

- From the TDIS-CES Main Menu, enter **SR** in the Option field.
- From any screen in TDIS-CES, enter **=SR** in the Command field.

The Status screen is displayed (see Figure 10-1).

```
 BROWSE — SYS90257.T141159.RA000.PHQTDS8.R0000031 — LINE 00000000 COL 001 080
 COMMAND ===> ▌                                          SCROLL ===> PAGE
********************************* TOP OF DATA  *********************************

                       * * * * D R P – T / D I S * * * *
COMPANY: BELLCORE T/DIS RELEASE 4.0.2              PROGRAM: YDCSP0  R–4.0.2
REPORT: T/DIS–CES STATUS PANEL                     RUN DATE: 09/14/90 14:12:00
STUDY AREA: OH                                     PAGE:         1
T/DIS DATE: 09/30/89                               DRMA DATE: 09/89
USAGE LOAD: 90/09/06–15:58:00                      INV LOAD: 90/09/14–12:00:10

 CARRIER DIST   PHQTDS5   90/09/04–15:09 *PRE 800 INV    PHQTDS3  90/09/14–12:00
 HICAP CLASS    PHQTDS5   90/09/04–15:08  SELECTED LOC   PHQTDS5  90/08/31–15:41
 HICAP GROUP    PHQTDS5   90/09/04–14:59  SEP CATEGORIES PHQTDS5  90/09/04–15:11
 ICAC TABLE     PHQTDS5   90/09/04–15:08  STUDY AREA ECN PHQTDS2  90/04/26–11:12
 LOC, ECN MAP   PHQTDS5   90/09/04–15:10  SUP USAGE COMP PHQTDS4  90/08/24–12:19
 NO 800 SPREAD  PHQTDS5   90/09/04–15:11  SUP USAGE SUBD PHQTDS4  90/08/24–12:37
*PRE BASE INV   PHQTDS3   90/09/14–12:00 *TECH WEIGHTING PHQTDS5  90/09/06–16:08
*PRE CENT STOCK PHQTDS3   90/09/14–12:00  USAGE SUBD     PHQTDS5  90/09/06–15:59
*PRE POWER INV  PHQTDS3   90/09/14–12:00

    REQUIRED ACTIONS USER ID   LAST EXECUTED
 *LOAD USAGE         PHQTDS8   90/09/06–15:58:00
 *LOAD INVESTMENT    PHQTDS8    90/09/06-15:58:05
 *RUN BASIC STUDY    PHQTDS8    90/09/06-15:58:10
```

Figure 10-1. Sample Status Screen

10.2 Function-Specific Status Report

The Function-Specific Status report identifies only the tables with changes that affect the accuracy of the data displayed in the function you are accessing, and the steps to take to incorporate those changes into TDIS-CES. This report provides the following information:

1. A list of all the user tables that affect how TDIS-CES generates views and reports, with an asterisk identifying only the tables containing changes affecting only the function you are accessing
2. The user id of the person who made the change
3. The date and time of the change
4. What action or actions you must take to incorporate those table changes into the function you are accessing.

10.2.1 Access Method

This report is displayed automatically the first time you are accessing a specific function and there are changes to data contained on other tables that affect the accuracy of the data provided by that function. TDIS-CES displays the Function-Specific Status report each time you enter this function until you synchronize the data.

Function-Specific Status reports are provided for the following functions:

1. Match Usage and Investment
2. Analyze/Adjust Investment
3. Analyze/Adjust Usage
4. Basic Study
5. Verify Study Results

For example, data on the Technology Weighting table, which affects the Basic Study, has changed. Figure 10-2 shows the sequence of screen displays. The steps below describe that sequence:

1. Select S on the Main Menu to access the Basic Study screen for the first time since the Technology Weighting table changed.

   TDIS-CES displays the Basic Study screen.

2. Press ENTER to execute the Basic Study.

   TDIS-CES prohibits you from executing the basic study and displays the specific status report.

3. Press ENTER when you have finished viewing the status report.

   TDIS-CES displays the Report Hardcopy screen.

4. Press ENTER when you have filled in the Report Hardcopy screen.

   TDIS-CES returns you to the Main Menu.

> **NOTE —** If you are accessing any other function besides the basic study, that screen is displayed and is populated with its associated data.

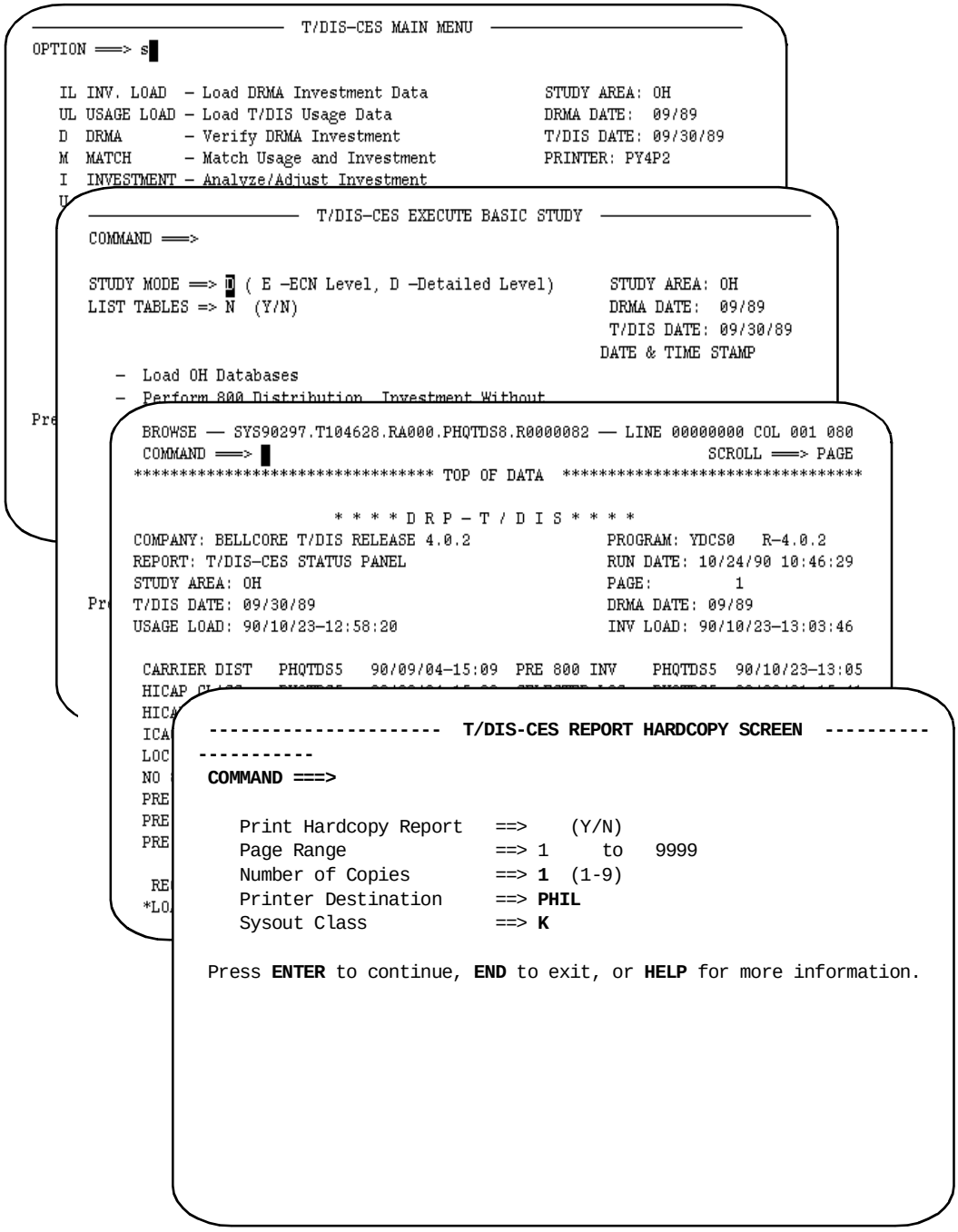


Figure 10-2. Sequence of Screen Displays for the Function-Specific Status Report

10.2.2 Function to Table Cross-Reference

Each of the tables listed on the Status Report screen affect one or more of the functions for which TDIS-CES generates a Function-Specific Status report. Table 10-1 cross-references each function to the tables that affect it.

Table 10-1. Function to Table Cross-Reference

Function	Affecting Tables
Match Usage and Investment	Hicap Class Code* Hicap Group Codes†* Loc/ECN Mapping† Pre-study Base Investment Pre-study Central Stock Investment Pre-study 800 ECN Investment Pre-study Power Study Area ECN Supplementary Usage Complement† Supplementary Usage Subdivision† Technology Weighting† Usage Complement Usage Subdivision
Analyze/Adjust Investment	Carrier Distribution Hicap Class Code* Hicap Group Codes* Loc/ECN Mapping‡ No 800 Spread Pre-study Base Investment Pre-study Central Stock Investment Pre-study 800 ECN Investment Pre-study Power Separation Categories Study Area ECN Supplementary Usage Subdivision Supplementary Usage Complement Technology Weighting Usage Complement Usage Subdivision
Analyze/Adjust Usage	Hicap Group Codes* Supplemental Usage Complement Supplemental Usage Subdivision Technology Weighting

Table 10-1. Function to Table Cross-Reference (Continued)

Function	Affecting Tables
Basic Study	Hicap Group Codes* Loc/ECN Mapping Supplementary Usage Complement Supplementary Usage Subdivision Technology Weighting
Verify Study Results	Carrier Distribution ICAC Hicap Class Code* Hicap Group Codes* Loc/ECN Mapping No 800 Spread Pre-study Base Investment Pre-study Central Stock Investment Pre-study 800 ECN Investment Pre-study Power Selected Location Separation Categories Study Area ECN Supplementary Usage Complement Supplementary Usage Subdivision Technology Weighting Usage Subdivision

* These tables do not affect the function.

†

10.3 Status Screen Description

Figure 10.3 identifies each section of the Status screen. The Status screen contains the following sections:

(1) Heading - The top two lines of the screen include the Command field and the Scroll field. The heading also identifies the following:

- Your company
- Report name
- Study area
- Date of TDIS data
- Date of last usage load

- Program name
- Date of study run
- Page number
- Date of DRMA data
- Date of investment load

(2) List of Tables - This section lists the user tables that affect how TDIS-CES generates views and reports. An asterisk next to a table indicates that a change has occurred to the data contained on that table. On the Main Status report, an asterisk identifies every table that contains changes. On the Function-Specific Status report, an asterisk identifies only the tables that affect only the function you are accessing. This section also identifies the following:

- the user id of the person who made the change
- the date and time of the change.

(3) List of Required Actions - This section lists the actions you need to take to incorporate changes throughout TDIS-CES. An asterisk appears next to each action required, and remains displayed until you perform the highlighted action. This section also identifies the following:

- the user id of the person who performed the action
- the date and time the action last occurred.

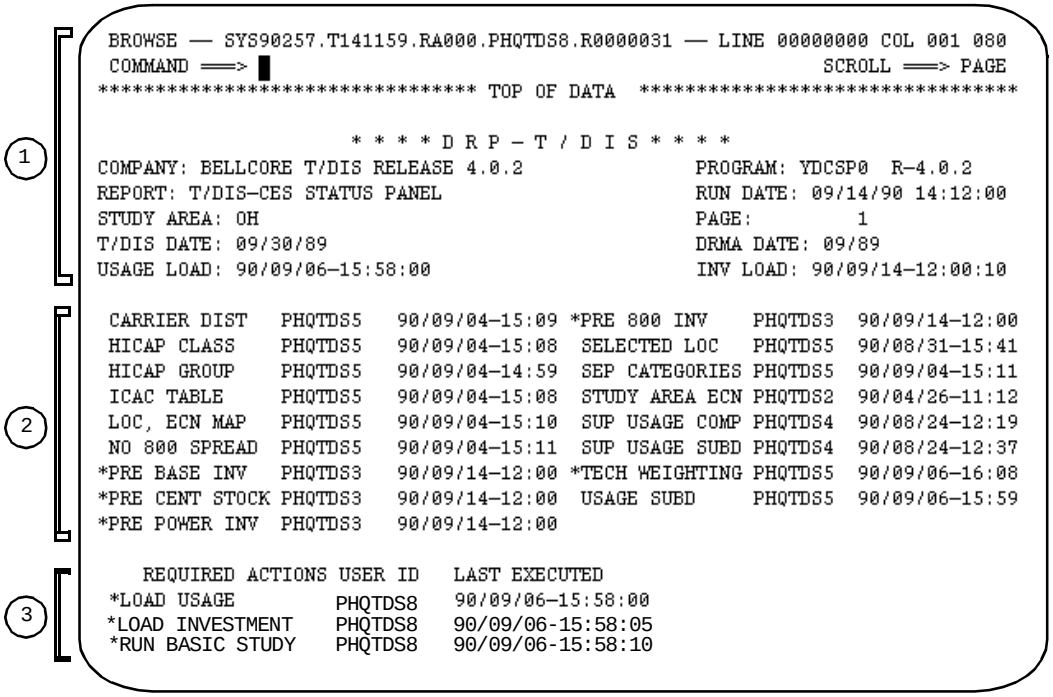


Figure 10-3. Sample Status Screen

10.4 Using the Report

This section provides two examples to show a difference between the Main Status report and the Function-Specific Status report.

Example 1: The Function-Specific Status Report

The header information identifies the invoking program's name. The invoking program is identified in the Program field in the upper right corner of the screen. The invoking program in Figure 10-4 is the Usage program. The Technology Weighting table, which affects the Usage table, has changed. As the date and time stamps indicate, this table has changed since the last basic study. As a result, TDIS-CES has highlighted the table. Other tables have been updated also, but they are not highlighted since they do not affect the Usage function. The action list only requires you to execute the basic study to synchronize the data.

```
 BROWSE — SYS90324.T092252.RA000.PHQTDS8.R0000045 — LINE 00000000 COL 001 080
 COMMAND ===> ▌                                          SCROLL ===> PAGE
********************************* TOP OF DATA  *********************************

                      * * * * D R P – T / D I S * * * *
COMPANY: BELLCORE T/DIS RELEASE 4.0.2              PROGRAM: YDCUO    R–4.0.2
REPORT: T/DIS–CES STATUS PANEL                     RUN DATE: 11/16/90 08:00:43
STUDY AREA: PA                                     PAGE:          1
T/DIS DATE: 03/01/90                               DRMA DATE: 02/90
USAGE LOAD: 90/11/16-07:57:18                      INV LOAD:  90/11/15-14:51:00

 CARRIER DIST   PHQTDS5   90/04/30-14:15   PRE 800 INV     PHQTDS8   90/11/15-14:53
 HICAP CLASS    PHQTDS5   90/04/13-11:12   SELECTED LOC    PHQTDS5   90/04/13-11:14
 HICAP GROUP    PHQTDS5   90/04/11-10:31   SEP CATEGORIES  PHQTDS5   90/04/11-12:04
 ICAC TABLE     PHQTDS5   90/05/09-16:11   STUDY AREA ECN  PHQTDS2   90/11/16-07:54
 LOC, ECN MAP   PHQTDS5   90/11/14-16:20   SUP USAGE COMP  PHQTDS4   90/11/15-09:35
 NO 800 SPREAD  PHQTDS5   90/11/15-14:00   SUP USAGE SUBD  PHQTDS4   90/11/15-09:39
 PRE BASE INV   PHQTDS8   90/11/15-14:52  *TECH WEIGHTING  PHQTDS8   90/11/16-07:54
 PRE CENT STOCK PHQTDS8   90/11/15-14:53   USAGE SUBD      PHQTDS8   90/11/16-07:59
 PRE POWER INV  PHQTDS8   90/11/15-14:53

  REQUIRED ACTIONS            USER ID       LAST EXECUTED
  LOAD USAGE                  PHQTDS8       90/11/16-07:57:18
  LOAD INVESTMENT             PHQTDS8       90/11/15-14:51:00
 *RUN BASIC STUDY             PHQTDS8       90/11/15-15:04:52
```

Figure 10-4. Sample Function-Specific Status Screen

Example 2: The Main Status Report

Figure 10-5 shows a Main Status report that contains a list of all the tables that changed in TDIS-CES since the last usage load, investment load, or basic study. Because the Main

Status report identifies every table with changes, the Technology Weighting table, the Study Area ECN table, and the Usage Subdivision table have been highlighted. The action list requires you to execute the basic study to synchronize the data.

> **NOTE —** You can display the Main Status screen if no changes have occurred to check who performed an update or run in TDIS-CES.

```
 BROWSE — SYS90324.T092252.RA000.PHQTDS8.R0000045 — LINE 00000000 COL 001 080
 COMMAND ===> ▌                                          SCROLL ===> PAGE
********************************** TOP OF DATA  **********************************

                        * * * * D R P – T / D I S * * * *
COMPANY: BELLCORE T/DIS RELEASE 4.0.2              PROGRAM: YDCSPO   R–4.0.2
REPORT: T/DIS–CES STATUS PANEL                     RUN DATE: 11/16/90 08:01:47
STUDY AREA: PA                                     PAGE:         1
T/DIS DATE: 03/01/90                               DRMA DATE: 02/90
USAGE LOAD: 90/11/16-07:57:18                      INV LOAD:  90/11/15-14:51:00

 CARRIER DIST   PHQTDS5  90/04/30-14:15    PRE 800 INV     PHQTDS8  90/11/15-14:53
 HICAP CLASS    PHQTDS5  90/04/13-11:12    SELECTED LOC    PHQTDS5  90/04/13-11:14
 HICAP GROUP    PHQTDS5  90/04/11-10:31    SEP CATEGORIES  PHQTDS5  90/04/11-12:04
 ICAC TABLE     PHQTDS5  90/05/09-16:11   *STUDY AREA ECN  PHQTDS2  90/11/16-07:54
 LOC, ECN MAP   PHQTDS5  90/11/14-16:20    SUP USAGE COMP  PHQTDS4  90/11/15-09:35
 NO 800 SPREAD  PHQTDS5  90/11/15-14:00    SUP USAGE SUBD  PHQTDS4  90/11/15-09:39
 PRE BASE INV   PHQTDS8  90/11/15-14:52   *TECH WEIGHTING  PHQTDS8  90/11/16-07:54
 PRE CENT STOCK PHQTDS8  90/11/15-14:53   *USAGE SUBD      PHQTDS8  90/11/16-07:59
 PRE POWER INV  PHQTDS8  90/11/15-14:53

  REQUIRED ACTIONS             USER ID       LAST EXECUTED
  LOAD USAGE                   PHQTDS8       90/11/16-07:57:18
  LOAD INVESTMENT              PHQTDS8       90/11/15-14:51:00
 *RUN BASIC STUDY              PHQTDS8       90/11/15-15:04:52
```

Figure 10-5. Sample Main Status Screen

10.5 Moving From the Report

From the status screen you can move to any TDIS-CES screen, or the Report Hardcopy screen:

- To go to another display or transaction screen, in the Command field type = and the corresponding code to your desired screen and press the ENTER key (for example, typing **=m** displays the Match Usage and Investment screen).
- To go to the Report Hardcopy screen, use the END command.

11. Debugging Aide

The purpose of the *TDIS-CES Debugging Aide* is to verify discrepancies in *Investment, Usage* and *Basic Study Results* data from one processing cycle to another. This tool is accessed by entering **"DB"** on the TDIS-CES main selection menu. The *TDIS-CES Debugging Aide* menu has four options each representing a type of data.

- Investment Load
- Usage Load (Equipment)
- Usage Load (Facilities)
- Basic Study Results

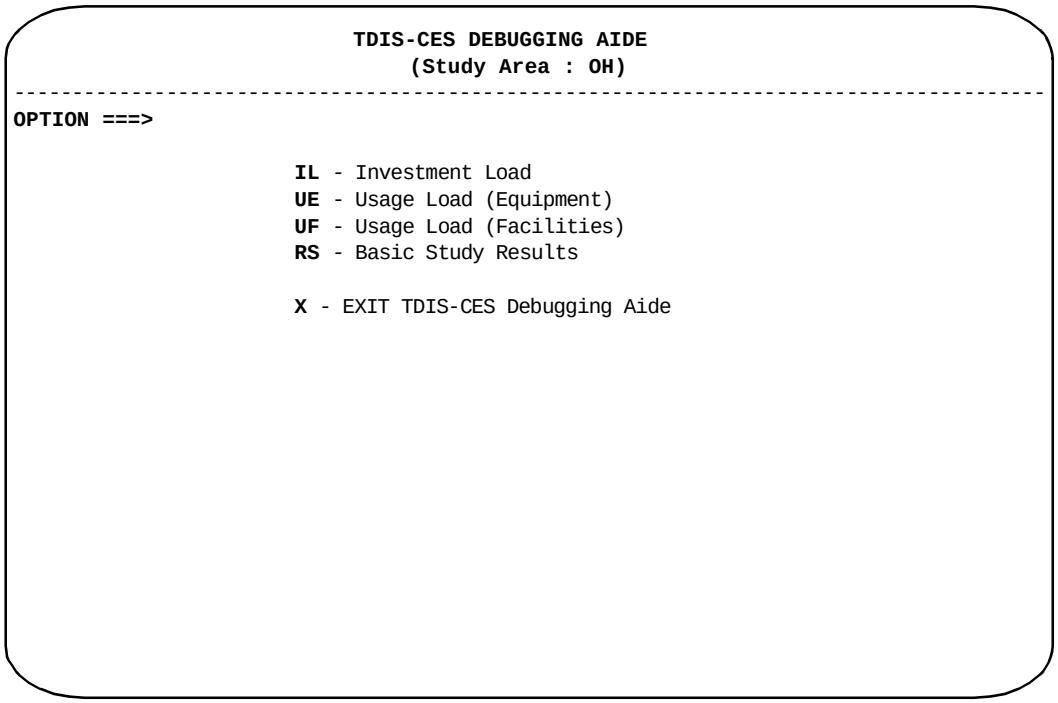


Figure 11-1. TDIS-CES Debugging Aide Selection Menu

A "pop-up" screen will appear for the selected option and display up to six dates, each representing a successful execution of the process which produced that data. Simply select two dates to be compared by entering a non-blank character in the field preceding the date displayed.

Each of these screens share a common field call "*% Changed" Threshold*. This field is used to limit the report to records which have **changes** in their numeric field(s) *greater than or equal to* +/- the percentage specified. All **deleted** and **added** records will be reported. For example, if a *threshold* is not specified

and the **OLD** file contained three records:

KEY	VALUE
KEY1	5
KEY2	7
KEY3	7

and the **NEW** file contained three records:

KEY	VALUE
KEY2	9
KEY3	6
KEY4	5

the resulting report would look like:

ACTN	KEY	OLD VALUE	NEW VALUE	DIFFERENCE	% CHANGED
DEL:	KEY1	5		(5)	(100)
CHG:	KEY2	7	9	2	29
CHG:	KEY3	7	6	(1)	(14)
ADD:	KEY4		5	5	+

(**NOTE**: Negative values are enclosed in parenthesis.)

If a *threshold* of **20%** is specified, the record **KEY3** would be **omitted** from the report.

If a **change** occurs in non-keyed data fields, the report prints out both records similar to the sample below.

ACTN	KEY	FIELD 1	FIELD 2
CHG:	AAA	BBB	CCC
	AAA	XXX	CCC

In addition, each option produces a report, TS-EDP, which displays the user's selections and data set information. Below is the EDP report from the execution of the RESULTS ("RS") option.

```
 BROWSE -- TDISD.OH.YDCCMR ------------------------- LINE 00000029 COL 001 080
 COMMAND ===>                                                SCROLL ===> CSR
                      * * * * D R P - T D I S * * * *
COMPANY: BASE CES SYSTEM                          PROGRAM: YDCCM0  R-5.3
REPORT: TDIS-CES DEBUGGING REPORT                 RUN DATE: 02/01/95 14:19:31
STUDY AREA: OH                  PAGE:         2
         OLD FILE:
             DATE: 95/01/01
             NAME: TDISD.OH.YDCS0.G0004V00
         NEW FILE:
             DATE: 95/02/01
             NAME: TDISD.OH.YDCS0.G0005V00
         REPORT OPTIONS SELECTED:
              THRESHOLD : +/-    0 %
               LEVEL     : 3
               SORT      : EC
               CATEGORY  : *
               ECN       : *
              DATA TYPE : ECN LEVEL
         OLD FILE RECORDS PROCESSED    =       1,099
         NEW FILE RECORDS PROCESSED    =       1,099
         RECORDS DISPLAYED AS: ADDS    =           0
                               DELS    =           0
                               CHGS    =           1
         CHANGED RECORDS OMITTED       =           0
         RECORDS WITH NO CHANGES       =       1,098
         TS-DBUG  REPORT PAGES WRITTEN =           2


                  * * * * * *  END OF REPORT  * * * * * *
```

Figure 11-2. TS-EDP Report for Results

The data set names are displayed for both the OLD and NEW files along with the dates on which they were created. Following this information is the user's reporting selections. Finally, the record statistics are displayed indicating:

- the number of records processed based upon the user's selection
- the number of records added, deleted and changed
- the number of changed records omitted because they did not meet the threshold set by the user
- the number of records that did not have any changes
- the number of pages produced for the report.

11.1 Investment Load

The *Investment Load* data is accessed by entering "**IL**" on the *TDIS-CES Debugging Aide* selection menu. A "pop-up" screen will display up to six dates, each representing a successful execution of the *Investment Load* process.

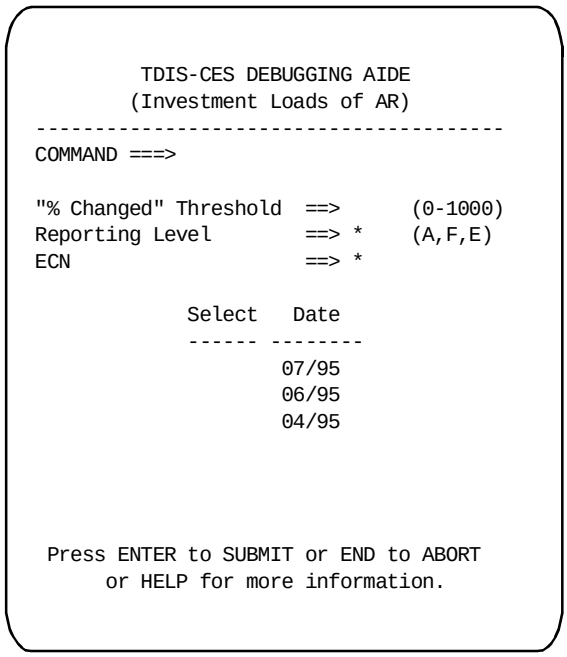


Figure 11-3. Investment Load Screen

There are three reporting levels of Investment Load data which correspond to the *VIEW/ PRT DATA* field of the *TDIS-CES VERIFY DRMA INVESTMENT* screen. They are:

A	8 Character Location
F	FRC
E	ECN

The report can also be limited to either a specific ECN or group of ECNs. This is accomplished by entering specific data in the ECN field. An asterisk (*) in any position will limit the data to a group of records matching the specific pattern. For example, if the ECN entered was "80*", then only those records containing ECN beginning with "80" will be processed.

```
 BROWSE -- TDISD.OH.YDCCMR ------------------------- LINE 00000000 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
******************************** TOP OF DATA *********************************

                     * * * * D R P - T D I S * * * *
COMPANY: BASE CES SYSTEM                          PROGRAM: YDCCM0  R-5.3
REPORT: TDIS-CES DEBUGGING REPORT                 RUN DATE: 02/01/95 10:28:32
STUDY AREA: OH                                    PAGE:         1
INVESTMENT LOAD REPORT               OLD DATE: 01/95       NEW DATE: 02/95
ACTN LOCATION   ECN    FRC
---- --------  -----  -----
               OLD INVESTMENT      NEW INVESTMENT        DIFFERENCE       % CHG
             ------------------ ------------------ ------------------ -------
ADD: ADTNOHAA  808      57C
                                          21,516             21,516       +
ADD: ADTNOHAA  809      57C
                                (         10,749) (          10,749)      +
DEL: ADTNOHAA  809     257C
            (           12,053)                              12,053     100
ADD: ADTNOHAA  810      57C
                                         284,967             284,967       +
DEL: ADTNOHAA  810     257C
                        284,967                      (         284,967) (  100)
```

Figure 11-4. Report of Investment Load Data

11.2 Usage Load (Equipment)

The *Usage Load* process can be performed by specifying one of three types of *CXR CC DATA:* F-Facilities, N-Normalized Facilities or E-Normalized Equipment. When ”E” is chosen, only the MEQPSUM file is used to load usage. Otherwise, both MFACSUM and MEQPSUM files are used. This section will discuss the Normalized Equipment option.

By entering “**UE**” on the *TDIS-CES Debugging Aide* selection menu, a ”pop-up” screen will display up to six dates, each representing a successful execution of the *Usage Load* process from Normalized Equipment.

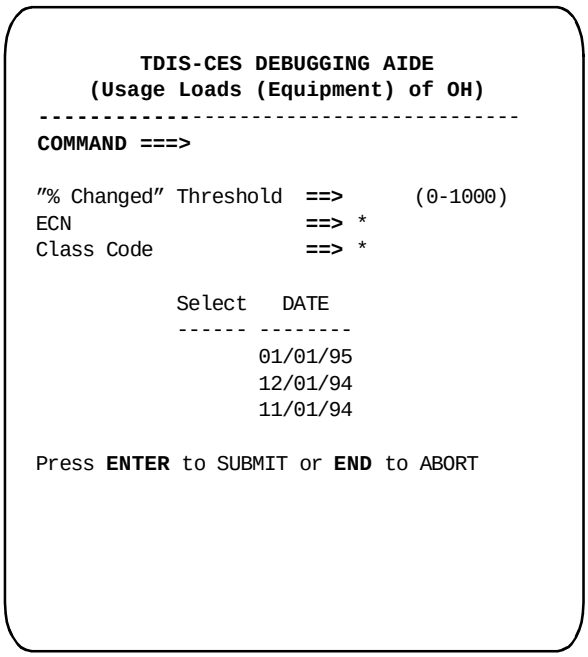


Figure 11-5. Usage Load (Equipment) Screen

Simply select two dates to be analyzed and the Debugging Report for Usage Load data will be displayed.

The report can also be limited to either a specific ECN or group of ECNs, or specific class codes or group of class codes. This is accomplished by entering specific data in the ECN or Class Code fields. An asterisk (*) in any position of either field will limit the data to a group of records matching the specific pattern(s). For example, if “80*” was entered for the ECN, then only those records containing ECNs beginning with “80” will be processed.

```
 BROWSE -- TDISD.OH.YDCCMR ------------------------- LINE 00000000 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
******************************** TOP OF DATA *********************************

                      * * * * D R P - T D I S * * * *
COMPANY: BASE CES SYSTEM                          PROGRAM: YDCCM0  R-5.3
REPORT: TDIS-CES DEBUGGING REPORT                 RUN DATE: 02/01/95 11:33:58
STUDY AREA: OH                                    PAGE:         1
USAGE LOAD (EQP) REPORT               OLD DATE: 12/01/94    NEW DATE: 01/01/95
ACTN LOCATION     HECI         RR       ECN
---- --------  ----------  ----------  -----
      CC      OLD AMOUNT          NEW AMOUNT          DIFFERENCE         % CHG        --
-- ------------------ ------------------ -------------------- -------
*******************************************************************************
DEL: AAAAAAA1  DMM1Y8NGRA  00100.07    821

    XA            9.0000                (          9.0000) (  100)     XB
7.0000               (          7.0000) (  100)     XC            5.0000
(             5.0000) (  100)
.....................................................................
             NET CHANGE FOR LOCATION : AAAAAAA1
                   ---------------------------------
ECN: 821
----------
 XA  (            9.0000)  XB  (            7.0000)  XC  (            5.0000)
```

Figure 11-6. Debugging Report of Usage Load (Equipment) data (includes Location Summary by ECN and Class Code)

At the end of this report is a summary report of the entire Study Area by ECN and Class Code.

```
BROWSE -- TDISD.OH.YDCCMR ------------------------- LINE 00000083 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
                * * * * D R P - T D I S * * * *
COMPANY: BASE CES SYSTEM                          PROGRAM: YDCCM0  R-5.3
REPORT: TDIS-CES DEBUGGING REPORT                 RUN DATE: 02/01/95 11:33:58
STUDY AREA: OH                                    PAGE:         2
USAGE LOAD (EQP) REPORT               OLD DATE: 12/01/94    NEW DATE: 01/01/95
                     NET CHANGE FOR STUDY AREA : OH
                     ------------------------------

ECN: 821
----------
 XA   (           9.0000)  XB   (           7.0000)  XC   (           5.0000)
```

Figure 11-7. Area Summary Report (by ECN and Class Code) of Usage Load (Equipment) data

11.3 Usage Load (Facilities)

The *Usage Load* process can be performed specifying one of three types of *CXR CC DATA:* F-Facilities, N-Normalized Facilities or E-Normalized Equipment. When "E" is chosen, only the MEQPSUM file is used to load usage. Otherwise, both MFACSUM and MEQPSUM files are used. This section will discuss the Facilities and Normalized Facilities options.

By entering **"UF"** on the *TDIS-CES Debugging Aide* selection menu, a "pop-up" screen will display up to six dates, each representing a successful execution of the *Usage Load* process from Facilities and Normalized Facilities.

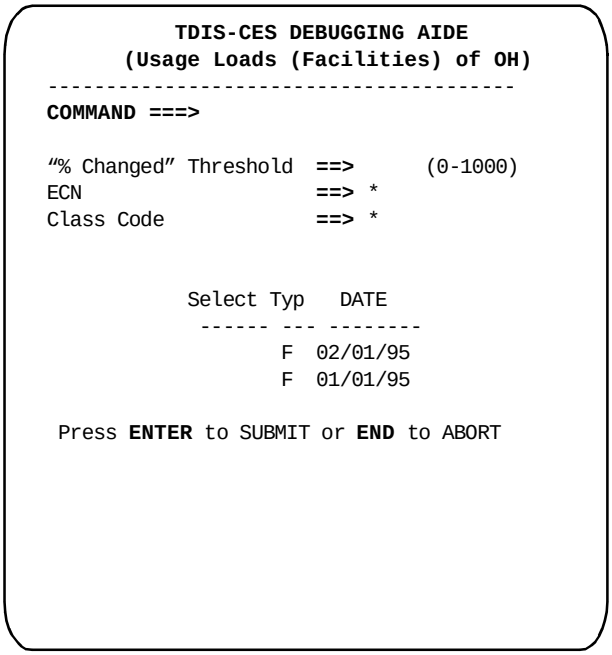


Figure 11-8. Usage Load (Facilities) Screen

The report can also be limited to either a specific ECN or group of ECNs, or specific class codes or group of class codes. This is accomplished by entering specific data in the ECN or Class Code fields. An asterisk (*) in any position of either field will limit the data to a group of records matching the specific pattern(s). For example, if "80*" was entered for the ECN, then only those records containing ECNs beginning with "80" will be processed.

Simply select two dates with the same *TYPE* (i.e., F-Facilities or N-Normalized Facilities) to be analyzed and the Debugging Report for *Usage Load* data will be displayed.

```
 BROWSE -- TDISD.OH.YDCCMR ------------------------- LINE 00000000 COL 001 080
COMMAND ===>                                                 SCROLL ===> CSR
******************************** TOP OF DATA *********************************

                       * * * * D R P - T D I S * * * *
COMPANY: BASE CES SYSTEM                          PROGRAM: YDCCM0  R-5.3
REPORT: TDIS-CES DEBUGGING REPORT                 RUN DATE: 02/01/95 14:02:54
STUDY AREA: OH                                    PAGE:         1
USAGE LOAD (FAC) REPORT               OLD DATE: 01/01/95    NEW DATE: 02/01/95
     CES       DIVEST  CHAN   LINE
ACTN LOCATION  ADMIN   ECN    ECN                 CARRIER SYSTEM
 ---- --------  ------  -----  -----  ----------------------------------------
      CC      OLD AMOUNT          NEW AMOUNT          DIFFERENCE         % CHG
     ---- ------------------ ------------------ -------------------- -------
********************************************************************************
DEL: AAAAAAA1   B-     809    808    5001      /T1    /AAAAAAA1W02/CNCNOHMW

     KC               9.0000                    (            9.0000) (  100)
................................................................................
                     NET CHANGE FOR LOCATION : AAAAAAA1
                       ---------------------------------
ECN: 808
----------
 KC  (             9.0000)

ECN: 809
----------
```

Figure 11-9. Debugging Report of Usage Load (Facility) data (includes Location Summary by ECN and Class Code)

At the end of this report is a summary report of the entire Study Area by ECN and Class Code.

```
 BROWSE -- TDISD.OH.YDCCMR ------------------------- LINE 00000000 COL 001 080
COMMAND ===>                                                 SCROLL ===> CSR
                            * * * * D R P - T D I S * * * *
COMPANY: BASE CES SYSTEM                          PROGRAM: YDCCM0  R-5.3
REPORT: TDIS-CES DEBUGGING REPORT                 RUN DATE: 02/01/95 14:02:54
STUDY AREA: OH                                    PAGE:         2
USAGE LOAD (FAC) REPORT               OLD DATE: 01/01/95    NEW DATE: 02/01/95
                         NET CHANGE FOR STUDY AREA : OH
                       ------------------------------
ECN: 808
----------
 KC  (             9.0000)
ECN: 809
----------
 KC  (             9.0000)
```

Figure 11-10. Area Summary Report (by ECN and Class Code) of Usage Load (Facility) data

11.4 Basic Study Results

By entering "**RS**" on the *TDIS-CES Debugging Aide* selection menu, a "pop-up" screen will display up to six dates, each representing a successful execution of the *Basic Study* process.

```
          TDIS-CES DEBUGGING AIDE

       (Basic Study Results of OH)
---------------------------------------
COMMAND ===>

"% Changed" Threshold  ==>      (0-1000)
Reporting Level        ==> 3    (1,2,3)
Sort (Cat-ECN/ECN-Cat) ==> EC   (CE,EC)
Separation Category    ==> *
ECN                    ==> *

            Select Typ   DATE
             ------ --- --------
                    E  95/02/01
                    E  95/01/01



 Press ENTER to SUBMIT or END to ABORT
```

Figure 11-11. Results Screen

There are three reporting levels of Basic Study Results data which correspond to the *DATA FORMAT* field of the *TDIS-CES STUDY RESULTS* screen. They are:

1	2230
2	Separations Category / ECN
3	Separations Category / ECN / TD / Location

The two *TYPES* of data correspond to the *STUDY MODES*: E-ECN Level or D-Detailed Level of the *TDIS-CES EXECUTE BASIC STUDY* screen. Simply select two dates with the same *TYPE* to be analyzed and the Debugging Report for *Basic Study Results* data will be displayed.

When specifying a *Reporting Level* of "1", the *SORT, Separation Category* and *ECN* fields are ignored. Otherwise, the resulting report can be sorted either by Separation Category and ECN or by ECN and Separation Category by specifying "**CE**" or "**EC**" respectively in the *SORT* field.

The report can also be limited to either a specific Separation Category or group of categories as well as a specific ECN or group of ECNs. This is accomplished by entering specific data in the *Separations Category* or *ECN* fields. An asterisk ("*****") in any position of either field will limit the data to a group of records matching the specified pattern(s). For example, if "**AAA***" was entered for the Separations Category, then only those records containing Separation Categories beginning with "AAA" will be processed.

```
 BROWSE -- TDISD.OH.YDCCMR ------------------------- LINE 00000000 COL 001 080
COMMAND ===>                                              SCROLL ===> CSR
******************************** TOP OF DATA *********************************

                      * * * * D R P - T D I S * * * *
COMPANY: BASE CES SYSTEM                          PROGRAM: YDCCM0  R-5.3
REPORT: TDIS-CES DEBUGGING REPORT                 RUN DATE: 02/01/95 12:09:32
STUDY AREA: OH                                    PAGE:         1
BASIC STUDY RESULTS REPORT             OLD DATE: 95/01/01    NEW DATE: 95/02/01
ACTN ECN   CATEGORY   LOCATION
---- ---  ----------  --------
             OLD INVESTMENT      NEW INVESTMENT        DIFFERENCE       % CHG
            ------------------- ------------------- ------------------- -------
CHG: 808  4.UNKNOWN   AAAAAAAA
           (               9)                 9                  18     200
```

Figure 11-12. Debugging Report of Basic Study Results data