

POLLABLE DATA TERMINAL NO. 2A (PDT-2A)
DATA COLLECTION REQUIREMENTS
SMALL OFFICE NETWORK DATA SYSTEM (SONDS)
OPERATIONS SUPPORT SYSTEMS

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9. Data Base Generation Inputs (4 Sheets)	26	(1) A description of the work operations which the network administrator must do to provide data to the Small Office Network Data System (SONDS), using the Pollable Data Terminal No. 2A (PDT-2A) as the data collecting device.	

NOTICE

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(2) Instructions for preparing forms needed to initialize the data base and to update existing data bases.

(3) Instructions for generating PDT-2A scan point lists, register assignment lists, and central office cross-connection lists of scanned central office equipment and its association to the PDT-2A scanner.

(4) A list of cross-reference documentation.

1.02 Whenever this section is reissued, the reason for reissue will be shown in this paragraph.

1.03 The title for each figure includes a number(s) in parentheses which identifies the paragraph(s) in which the figure is referenced.

1.04 The PDT-2A is described in Section 252-118-101, entitled Pollable Data Terminal (PDT)-2A Used with Small Office Network Data System (SONDS)—Description and Operation.

DEFINITIONS

1.05 MAP - A string of hexadecimal characters generated from the IMAP data base, which when transmitted to and stored in the PDT-2A, controls its scanning and associates scan inputs with output registers. In brief, the MAP is a set of software cross connections and is unique to each PDT-2A.

1.06 DATA BASE - Information which is entered into and stored by a computer. In the case of a PDT-2A installed in the SONDS, there are two data bases, one of which is entered and stored into the Western Electric Company (WE) Gateway computer located in Newark, New Jersey. The WE computer program that administers PDT-2A data bases is known as the Interactive MAP Assembly Program (IMAP) and is described in Part 3 of this section. The IMAP program *generates* PDT-2A MAPs and TXXXX-482 drawings from the data base data. The IMAP program also automatically makes PDT-2A input assignments which relieves the user of this time-consuming task.

1.07 The second data base is entered into and kept by the American Telephone and Telegraph Company (AT&T) VM 370 computer located in Piscataway, New Jersey. The SONDS User Manual describes SONDS data base entry

procedures. This data base, also known as the office parameter file, is used to notify the SONDS computer of the data terminal's polling schedules and how to label and evaluate the data obtained from a PDT-2A data terminal for the various output reports. A copy of the PDT-2A's MAP is stored also in the SONDS computer's data base in order that it may be transmitted to the PDT-2A upon command.

1.08 Figure 1 illustrates the PDT-2A's position within the SONDS PDT-2A administrative universe. Six data communication paths, called links, are shown. Their functions are as follows:

(1) **Link No. 1:** Link No. 1 is used primarily for SONDS polling, either hourly or principal (middle of the night) poll. In this case, data flow is from the PDT-2A to the SONDS VM computer but only on request from the SONDS computer. This link is used also to transmit the PDT-2A's unique MAP from the SONDS computer's data base to the terminal.

(2) **Link No. 2:** Upon command, the SONDS computer has the ability to dial the WE Gateway computer and request the copy of a particular PDT-2A MAP which will be subsequently stored in the SONDS data base. Once stored, it can be transmitted to the PDT-2A by the SONDS computer. The MAP requested from the WE computer may either be a copy of the "last MAP generated" or a complete new MAP may be generated from the information contained in the WE IMAP data base.

(3) **Link No. 3:** Depending upon who has control of the data base at the time, either the network administrator, the WE line engineer, or the telephone company (TELCO) equipment engineer may access the IMAP program residing in the WE computer in order to:

- Generate or modify a data base, ie, add or change scan inputs and/or output registers
- Enter or change TXXXX-482 drawing information
- Request a copy of TXXXX-482 drawings (which will be sent by US mail from Newark, New Jersey).

(4) **Link No. 4:** This link may be used to access the always busy, never busy features of the PDT-2A and run remote diagnostic routines on the PDT-2A. (Care should be exercised as the accumulated data and the software MAP are ruined by some PDT-2A diagnostics.)

(5) **Link No. 5:** Link No. 5 shows the SONDS network administrator has access to the PDT-2A, provided the data terminal used is a 300 baud, 10 bit American Standard Code for Information Exchange (ASCII) type. One use for this link is using the PDT-2A "always busy," "never busy," "never peg counted" features in conjunction with the SONDS weekly report in order to locate central office equipment made busy or in trouble.

(6) **Link No. 6:** This path is used by the SONDS administrator to enter or change items into the SONDS data base, to request on-line copies of SONDS reports or stored data, to change PDT-2A polling modes, to secure on-line printouts of various sections of the SONDS User Manual, and to request new MAPS from the Gateway computer or to load a MAP into a PDT-2A.

1.09 The network administrator responsible for SONDS data has the responsibility to do the following:

(1) Review draft and/or final copy of the traffic order to assure correct data collection assignments.

(2) Issue a service order for a 113DR data set to be used in the SONDS. Follow up scheduled installation to be sure of its availability when required.

(3) Compare PDT-2A IMAP data base (-482 drawing) with data collection requirements and traffic order.

(4) Maintain PDT-2A IMAP data base when responsibility is turned over by WE.

(5) Establish and maintain SONDS data base. (Keeps output register designations the same or as close as possible to the IMAP register labels.)

(6) Complete end-to-end office verification after SONDS/PDT-2A is installed to verify PDT-2A wiring. Use the 482 office drawing (PDT-2A Input Lead and Output Register assignments) provided by WE.

Note: The PDT-2A installation job should not be signed off as acceptable until this step is complete.

(7) Arrange to have the MAP loaded and polling started as soon as possible after PDT-2A installation in order to locate obvious problems before the end-to-end verification test is made. (Note that it may take at least 24 hours to load a brand new MAP into a PDT-2A.)

(8) Validate SONDS data from hourly reports.

(9) Place office in "start-up" mode after end-to-end verification test.

(10) Distribute SONDS output reports.

(11) Note unusual conditions in the office of data collection problems on SONDS reports being forwarded to Traffic Engineering or Trunk Engineering.

(12) Follow up on SONDS exception reports by reporting equipment trouble to switching maintenance.

(13) Make weekly comparisons of "always busy," "never busy," "never peg counted" data obtained by polling PDT-2A with the SONDS weekly report in order that central office equipment made busy or in trouble can be identified and reported. Initialize the "always busy," "never busy," "never peg counted" feature each week after interrogation.

(14) Keep track of PDT-2A MAP issue numbers versus central office equipment installed in order that the correct MAP issue is loaded into the PDT-2A when required.

(15) The network administrator's responsibility for keeping track of MAP and 482 drawing issue numbers cannot be overemphasized. SONDS maintains a duplicate of the current MAP which, generally, is the same as that stored in the last MAP generated file in the Gateway computer. The network administrator should use the **GETMAP**

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command carefully as a possible misloading of a MAP could occur; that is, a MAP of the wrong issue that does not reflect the central office equipment installed. (See SONDS User Manual for an explanation of the **GETMAP** command.)

2. SONDS WORK OPERATIONS

2.01 Figure 2, entitled "SONDS/PDT-2A Work Operations," is a flowchart of the sequence of operations required to install a PDT-2A in the SONDS. It must be noted that while the PDT-2A will be installed at the end of the sequence with an up-to-date MAP stored in it, polling by the SONDS computer cannot begin until a data base and polling instructions are entered into the SONDS computer by the network administrator. This sequence of operations is covered in the SONDS User Manual.

2.02 Initially, the traffic engineer prepares, with the assistance of Section 190-514-060, a traffic order providing for the installation of a PDT-2A and transmits it to the network equipment engineer. Included with the traffic order will be completed copies of Fig. 3, PDT-2A Register Assignment Work Sheet. Instructions for the preparation of this work sheet are given in paragraphs 3.03 through 3.11.

2.03 The central office engineer has the usual ordering options available, ie, have WE engineer, furnish, and install (EF&I) or to telephone company engineer (TCE) the job. In either case, the sequence shown on Fig. 2 and described below will be followed:

- (1) After creating a data base for the particular PDT-2A, as described in paragraph 3.14, the IMAP program user enters the PDT-2A register assignment work sheet data into the MAP data file of the newly-created data base.
- (2) The IMAP program automatically assigns the PDT-2A inputs from the data base information entered. When the user is satisfied with the entire data entry, execution of the **RECORDS** command at the IMAP program level will cause preliminary copies of the 482 drawings to be generated and mailed to the user. At this point, the input lead number, scan rate, circuit pack position, row number, pin number, data source, output register type, and number

will be shown. Refer to the left-hand side of Fig. 4.

- (3) The user may now enter the connecting circuit information, ie, circuit designation, figure, lead designation, and terminal location by PDT-2A input into the 482 drawing data file of the data base as shown on the right-hand side of Fig. 4.
- (4) A new copy of the 482 drawing is obtained by invoking the **RECORDS** function. It is this copy which serves as cross-connection information to the central office equipment installer.
- (5) At least 24 hours before the installation is complete, the user requests the VM 370 SONDS computer to load a new MAP into the PDT-2A. (Note the SONDS data base must have been established in the SONDS computer by this time.)
- (6) The VM 370 computer calls the WE computer, enters the IMAP program, and requests that a new MAP be generated.
- (7) A software MAP generated from the IMAP data base is loaded into the "last MAP generated" file at the WE computer.
- (8) The MAP is transmitted from the WE computer to the VM 370 computer where it is stored in the central office SONDS parameter file.
- (9) The VM 370 computer loads the MAP into the PDT-2A from its central office parameter file upon request from the user (see the SONDS User Manual). Polling may now begin by a command to the VM 370 SONDS computer from the network administrator.

After the end-to-end wiring verification test is completed:

- (10) The IMAP data base, including the 482 drawing file, may be changed to match the results of the verification test by WE or the TELCO, whoever is responsible.
- (11) After the verification test, the user now has the necessary information to complete

the "equipment designation" file portion of the IMAP data base.

(12) Once the "equipment designation" has been entered, the **RECORDS** function is invoked again in order to generate a final, complete set of office drawings.

(13) Should changes be made to the IMAP data base in Step 10 affect the software MAP, a call by the network administrator is made to the VM 370 SONDS computer for a new MAP to be loaded.

(14) Assuming a new MAP is required from the WE computer, the new MAP generated overwrites the MAP presently stored in the "last MAP generated" file.

(15) The new MAP is then transmitted to the SONDS computer where it overwrites the previous MAP stored in the office parameter file.

(16) The new MAP is then transmitted to the PDT-2A by the SONDS computer, again by the network administrator's request.

2.04 Note that any subsequent MAP loading commands (**LOADMAP**) by the user to the SONDS computer causes the MAP stored in the SONDS computer to be loaded in the PDT-2A. Only a command (**GETMAP**) to obtain a new MAP causes the WE computer to be involved. (See SONDS User Manual for an explanation of the **LOADMAP** and **GETMAP** commands.)

2.05 Generally, once the PDT-2A/SONDS installation phase is completed, control of the WE computer data base for the particular PDT-2A is given to the network administrator who will maintain both the IMAP and SONDS data bases until the next equipment addition in the office.

2.06 It should be noted that the MAP issue number is increased by one for each instance of entering the IMAP data base with MAP-affecting changes such as those affecting output register numbers.

2.07 Similarly, it should be noted, that 482 drawings generated by the **RECORDS** function bear a two-digit issue number to the right of, and in addition to, the issue number on the 482 drawing. This is illustrated in Fig. 4.

2.08 The 482 drawing's issue number will change when the MAP's issue number changes. For example, the following conditions could exist:

(1) The current data base MAP is at Issue 005.

(2) The 482 drawing shows Issue 0005-06—meaning that six changes have been made to Issue 5 of the IMAP data base's 482 drawing file *that did not affect the MAP*.

(3) If a new MAP were generated, the new MAP and new 482 drawing would have the following issue number configuration:

- MAP Issue Number 0006

- 482 Drawing Issue Number 0006-00

3. DATA BASE GENERATION—INPUT FORMS

3.01 The first work operation required to implement a SONDS PDT-2A configuration is to obtain access to the WE computer used to generate the PDT-2A data base.

PREPARATION OF FORM SD-94-576—INTRA COMPANY ORDER

3.02 The TELCO equipment engineer or WE line engineer completes Form SD-94-576 according to the following instructions which apply to keyed indicators shown in Fig. 6:

(1) **W.E. Order No.:** If no order number, leave blank.

(2) **Source:** Refers to traffic order number on TELCO form sheet. Example: XX-X-XXXXX.

(3) **Mail Shipping Papers To:** Information not necessary. Leave blank.

(4) **Ship To:**

Software Services Engineer
Regional Technical Assistance Center (for the user's Western Electric region).

The Description shall contain the following:

(5) "This intracompany order is issued to authorize billing for the use of PDT-2A IMAP."

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Office Location (city, state)

Office Name

(6) Office Base and Control Group: _____

(7) Engineer:

Name:

Department:

Telephone:

Send Billing Address (city, state):

all accumulating registers are assigned first, the two left-hand columns, DATA SOURCE and NBR OF SCAN INPUTS, should be entered completely before proceeding to the PDT-2A group of columns.

3.06 The PDT-2A column in Fig. 3, labeled SCAN RATE, is used to assign one of the following three terminal scanning rates to each data source:

- (1) **PC** — peg count, scanned once every 10 milliseconds
- (2) **1 Sec** — 1 second usage, scanned once a second
- (3) **10 Sec** — 10 second usage, scanned once every 10 seconds.

PREPARATION OF PDT-2A REGISTER ASSIGNMENT WORK SHEET

3.03 The PDT-2A Register Assignment Work Sheet (see Fig. 3) provides a method of assembling the traffic register assignments required by the WE time-shared computer so as to generate the PDT-2A data base and other printed lists required for installation or data analysis. The traffic order should contain these forms as well as the telephone company engineering specification.

3.04 The PDT-2A identification number in Fig. 3 is a 4-digit decimal number. The initial assignment is made by the WE computer's IMAP to ensure uniqueness. For initial jobs, NEW JOB should be entered in this space. This number is included in the software MAP heading and must match a switch-settable, 4-digit decimal number in the PDT-2A. **If the two numbers do not agree, the software MAP will not be accepted by the PDT-2A.** The four terminal identification switches are located on scan interface circuit pack (SL2) and are set by the installer with the correct identification number. These switches are not normally disturbed after installation.

3.05 The column labeled DATA SOURCE in Fig. 3 illustrates the type of central office equipment entries. The entries represent items of equipment to be connected to the PDT-2A scan inputs. In the column labeled NBR OF SCAN INPUTS, the number of PDT-2A scan inputs assigned to a particular data source is listed. It should be noted that only the **quantity** of PDT-2A scan inputs is entered and not the actual input terminal numbers. The assignment of PDT-2A input numbers is made by the IMAP program. As an aid in assuring that

The only limitation in making these assignments is that **there may be a maximum of 400 scan inputs assigned to the peg count scan rate.** If this limit is exceeded, the time-shared computer will notify the user.

3.07 There are two columns in Fig. 3 labeled REGISTER NO. The user should add ACCUM in the first register column and PEAK in the second register column. (This form is also used for other PDT-2A applications.) The PDT-2A columns in Fig. 3 labeled ACCUM REGISTER NO. and PEAK REGISTER NO. are for assigning data sources to PDT-2A output accumulative and peak registers. Although a fully-equipped PDT-2A can provide as many as 2560 output registers, SONDS, at present, allows a maximum of 200 output registers. The SONDS registers are numbered consecutively from 0 to 199 and may be assigned to function as either accumulating or peaking registers. **It is necessary that the highest-numbered accumulating register be lower in number than the lowest-numbered peaking register.** This requirement is most easily met by completing the ACCUM REGISTER NO. column of the assignment work sheet before making any assignments in the PEAK REGISTER NO. column. It is advisable to leave some spare registers between the ACCUM and PEAK registers for future growth or special studies. It is suggested that two or three spare registers be left in automatic number identification (ANI) offices. In offices scheduled to go ANI, seven or eight spare registers should normally be provided. Otherwise, two or three spare registers are sufficient.

3.08 More than one input may be assigned to a particular output register. A different situation occurs when a particular input is assigned to more than one output register. This is termed a "multiple assignment" because scan input(s) will be required to score in more than one output register. In order to accommodate this requirement, the secondary register assignment table is generated for the PDT-2A by the IMAP program. This table contains blocks of output registers involved in these multiple assignments. The size of the secondary register assignment table must be equal to, or less than, 300 entries. One entry is defined as the occurrence of an output register in the table. The number of entries in the secondary register assignment table is found by counting all the registers involved in multiple assignments. The example cited in Fig. 7 illustrates some multiple assignments as they would appear on a PDT-2A Register Assignment Work Sheet. In this example, the secondary register table would contain eight entries. Note that register No. 7 counted three times; the other five registers, to make the total of 8, are 2, 3, 4, 8, and 22. The IMAP program will verify that this table has 300 or less entries. More than 300 multiplied registers will terminate data base generation. The location of this table in the MAP is depicted in Fig. 5, SONDS PDT-2A Data Base MAP. Line No. 30, labeled SA, stands for secondary assignments. This is the beginning of the SA table.

3.09 A cycle count register should be provided in the following manner. On the PDT-2A Register Assignment Work Sheet (See Fig. 3), the words CYCLE COUNT are entered in the DATA SOURCE column. ***The exact words must be used; that is, CYCLE COUNT.*** No local abbreviation or conventions will be accepted by the WE computer. It is recommended that the last accumulating register (after the spare registers and before the peaking registers) be used for this purpose. This register is incremented every 10 seconds by the PDT-2A software and provides a partial sanity check of the performance of the terminal. ***It is recommended that the user always specify a cycle count register. Failure to assign a cycle count register may lead to difficulties in trouble analysis.***

3.10 It is recommended that dial tone speed (DTS) assignments be based on all finders busy (AFB) indications rather than on tests and delays. One usage register (1 sec scan rate) is required

for each line finder group in the office. ***It is not necessary to group the registers by loading divisions as this is a function of the SONDS VM computer.***

3.11 When the PDT-2A Register Assignment Work Sheet is completed, it is forwarded to the central office equipment engineer for inclusion in the engineering specification. The handling of the data base preparation job then follows as described in Fig. 2 for EF&I type specifications.

ACCESSING THE IMAP PROGRAM USING THE WE COMPUTER

3.12 Once the PDT-2A Register Assignment Work Sheet has been completed, the user logs on to the WE computer. The paragraphs describing the use of IMAP apply to all users, whether they are TELCO, WE, or AT&T SONDS personnel. Therefore, when the word "user" is used, the reader is expected to supply the appropriate designation depending on company departmental organization and responsibilities. In Fig. 1, the SONDS VM Computer Organization has the prime responsibility for loading the MAP. In Fig. 2, the network administrator is shown as the agent for loading the MAP. ***This is a normal function of the VM 370.***

3.13 The user first logs into the WE time-shared computer by dialing the appropriate telephone number listed in Fig. 8. The "login" procedure is illustrated in Fig. 9 for both new and old data bases.

ENTERING NEW PDT-2A ASSIGNMENT WORK SHEET DATA

3.14 At this point, the user is ready to enter the data from the PDT-2A Register Assignment Work Sheet to the WE computer. ***This system is completely interactive. The user is prompted, line by line, as to what to type into the system.*** If the user does not know which command to input, it is necessary to enter only the **NEWS** command. Figure 9 illustrates what the user can expect to see when the **NEWS** command is entered into the terminal. Figure 10 illustrates how the user logs on the WE computer for MAP generation after dialing is complete and carrier tone is received.

4. DATA BASE GENERATION—OUTPUT MEDIA

4.01 The IMAP program is used to generate software "MAPS" for the PDT-2A when it is used in the SONDS and the Engineering and Administration Data Acquisition System (EADAS). It also performs certain auxiliary functions such as automatic assignment of PDT-2A inputs and generation of office 482 drawings.

4.02 A software "MAP" is an ASCII string of hexadecimal characters which describe the association of PDT-2A inputs with output registers. The "MAP" resides in the PDT-2A's Random Access Memory (RAM).

4.03 Figure 11 contains a hierarchical block diagram of the IMAP program as well as a summary of all available commands and/or functions. In addition, a description of the commands and/or functions with examples of their use is presented in Figures 9, 10, 12, 13, 14, 15, 16, 17, 18, and 19 of this section. The descriptions were taken from the **NEWS** function of the IMAP program and the examples are the result of using the particular function described.

5. DIFFERENCING REGISTER FEATURE

5.01 Five pairs of differencing registers have been provided in the PDT-2A/SONDS software in order to allow peak measurements to be obtained on PDT-2A output register differences. One use for this feature is obtaining accurate engineering data in step-by-step (SXS) offices which are scheduled for Electronic Switching System (ESS) or Remote Switching System (RSS) replacement.

5.02 This part lists two of the most important traffic measurements in SXS offices equipped with a PDT-2A/SONDS data terminal and destined for ESS/RSS replacement and shows how they may be obtained by careful register assignment techniques in the IMAP using the newly-developed differencing register feature.

5.03 The PDT-2A/SONDS differencing register feature is a subroutine that is called each hour when the transfer of data from the active to the previous hour memory takes place. Thus, the previous hour memory contains the results of the subtraction which can then be compared with the peak register values stored in the long-term memory.

5.04 The important features of the differencing subroutine are:

- (1) Registers 50 to 59 are designated as differencing register pairs, and they always operate as follows:

REGISTER MINUEND	REGISTER SUBTRAHEND	RESULT STORED IN REGISTER
55	50	55
56	51	56
57	52	57
58	53	58
59	54	59

- (2) The subroutine does not function if the "default MAP" is controlling the PDT-2A.
- (3) Should the subtrahend be greater than the minuend, the associated difference register (55 to 59) is loaded with zero. (This causes an exception report to be generated in the SONDS.)

5.05 The differencing register feature enables one to conveniently collect data needed for ESS/RSS measurement requirements:

- (1) Intraoffice hundred call seconds (CCS) without including permanent signal CCS.
- (2) Total outgoing CCS plus twice the terminating CCS minus the total incoming CCS (OGT + 2 [TERM] - INC).

5.06 *IMAP Assignment Procedures to Obtain Intraoffice CCS Without Permanent Signal CCS:* If one sums the total originating CCS and then subtracts the outgoing trunk CCS from it to obtain intraoffice CCS, then the result contains permanent signal CCS. A better way to determine intraoffice CCS is to sum the terminating CCS (total connector CCS) and then to subtract the incoming CCS (total incoming trunk).

5.07 To accomplish this, assign one of the minuend registers (55 to 59) to record total connector CCS. Assign its corresponding subtrahend register

(50 to 54) to record total incoming trunk CCS. In operation, the previous hour memory will contain the last hour intraoffice CCS in the high-numbered (minuend) register of the register pair and the low-numbered register (subtrahend) will contain total incoming CCS as a result of the differencing register function. The long-term memory will contain the peak intraoffice CCS in the high-numbered register and the peak incoming CCS in the low-numbered register of the register pair.

5.08 Figure 20 shows an example of the IMAP program assignment technique assuming an office with 10 connector groups spread over 2 thousands series and 3 incoming trunk groups. The requirement to obtain intraoffice CCS without permanent signal CCS is that the total terminating CCS registration must be assigned to one of the high-numbered differencing registers (55 to 59) and the total incoming CCS to its low-numbered (50 to 54) mate as shown in paragraph 5.04. Note in the example that while register 55 is assigned to and records total terminating CCS in the active memory, register 55 in the previous hour's memory will contain the result of the subtraction of register 50 from register 55, ie, intraoffice CCS. Register 55 in the long-term memory will contain the peak or highest hourly value or intraoffice CCS.

5.09 Assignment Procedures to Obtain Outgoing CCS Plus Twice the Terminating CCS Minus the Incoming CCS: This measurement is an RSS requirement which needs total originating CCS minus permanent signal CCS, plus terminating CCS. Since originating CCS, less permanent signal CCS, is equal to terminating CCS minus incoming CCS plus outgoing trunk CCS, and terminating CCS is equal to terminating CCS, then the measurement requirement may be restated as: Outgoing trunk CCS plus twice the terminating CCS minus the incoming CCS. In other words:

$$\text{ORIG} = \text{TERM} - \text{INC} + \text{OGT}$$

$$\text{TERM} = \text{TERM}$$

$$\text{ORIG} + \text{TERM} = \text{OGT} + 2(\text{TERM}) - \text{INC}.$$

5.10 Figure 21 shows this requirement can be assigned in the IMAP program so that the peak hourly value is reported and further computation is unnecessary. This example, shown on Fig. 21, assumes the same central office equipment described in paragraph 5.08 plus three outgoing trunk groups. Note in the example that register 55 is assigned twice to record twice the terminating CCS. This is a technique that works because the IMAP program does not detect multiple assignments of the same secondary register and will include the double assignment in the PDT-2A "software map's" Secondary Assignment Table. In operation, the PDT-2A circuitry does exactly what the Secondary Register Assignment Table dictates which, in this case, is to record a single usage count in register 55 twice.

5.11 If the differencing register feature is not desired, registers 50-54 can be assigned in the usual manner, and registers 55-59 *must not* be assigned.

6. PDT-2A/SONDS DOCUMENTATION LIST

6.01 This part lists the PDT-2A/SONDS documentation:

- (1) Small Office Network Data System (SONDS) User Manual, AT&TCo.
- (2) Bell System Practice 252-118-101 - Pollable Data Terminal No. 2A Used with Small Office Network Data System (SONDS) - Description and Operation.
- (3) Bell System Practice 252-118-301 - Pollable Data Terminal No. 2A Used with Small Office Network Data System (SONDS) - Trouble Locating Procedures.
- (4) SD+CD 3B244-01 Traffic Management Systems, Pollable Data Terminal No. 2A (PDT-2A)
- (5) CPS-SLI, SL1 Circuit Pack Schematic
CPS-SL2, SL2 Circuit Pack Schematic
CPS-SL3, SL3 Circuit Pack Schematic
CPS-SL4, SL4 Circuit Pack Schematic
CPS-SL5, SL5 Circuit Pack Schematic

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(6) J3B034A-1 - PDT-2A Specification

ED3B085-30 - Control Panel Interface Circuit (

(7) E8173 - Questionnaire - PDT-2A

ED3B075-30 - Read Only Memory PWB

(8) ED3B089-30 - Cable Assemblies and Connecting Information

ED3B075-31 - Read Only Memory PWB (

(9) T3B244 - Wiring Drawings

(10) ED3B083-30 - Control Panel Specification

(11) Bell System Practice 190-514-060 - Pollable Data Terminal No. 2A Determination of Quantities-Small Office Network Data System (SONDS)-Operations Support Systems.

ED3B084-30 - Control Panel PWB

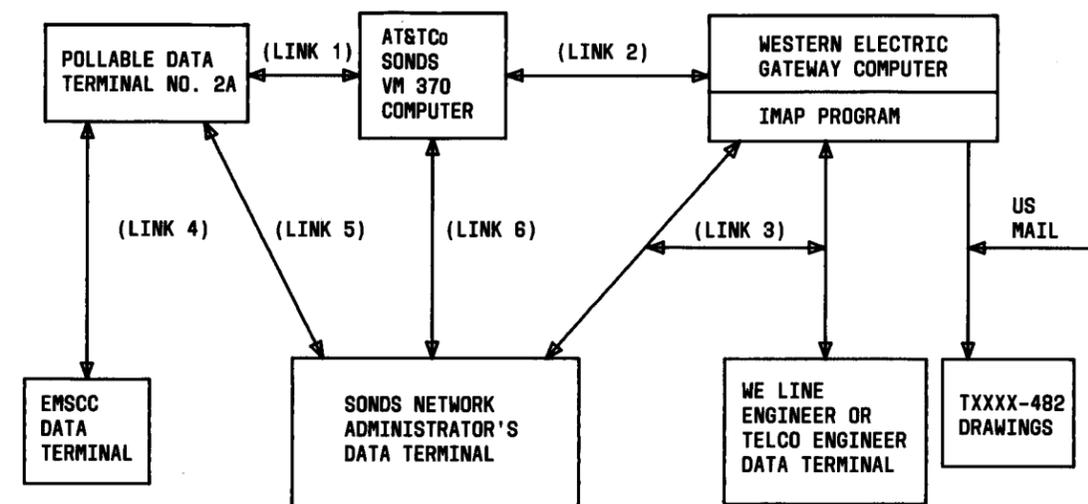


Fig. 1—SONDS PDT-2A Administrative Universe (1.08, 3.12)

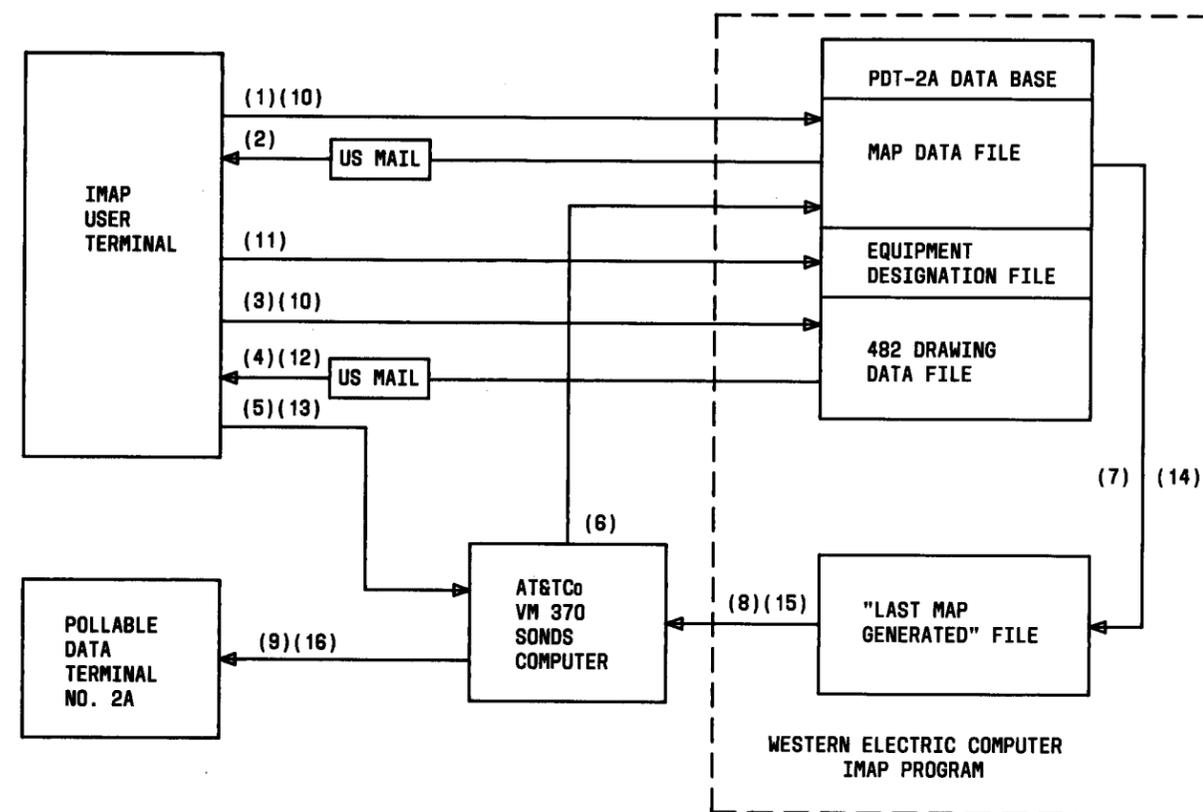


Fig. 2—SONDS PDT-2A Work Operations (2.01, 2.03, 3.11, 3.12)

PDT-2A SCAN INPUT ASSIGNMENT
DRAWING FOR
SONDS APPLICATION

PDT-2A OFFICE NAME: SHORT MAP TEST
PDT-2A TELEPHONE NO.: 614-868-4102
PDT-2A IDENTIFICATION NO.: 0011

PDT-2A SCAN INPUTS SORTED BY INPUT NUMBERS ***** ***** ***** CONNECTING CIRCUIT INFORMATION *****

LEAD NO.	SCAN RATE	CP POS	PIN ROW NO.	DATA SOURCE	REGISTER TYPE NO.	EQUIPMENT DESIGNATION	CIRCUIT	FIG	LEAD DESIG	TERMINATING	LOCATION
0000	PC	23	1	001	1ST SELR PC	A 0	FR103-A-0	T532516	18	R	VCDF 38A
0001	PC	23	1	101	1ST SELR PC	A 0	FR103-A-1	T532516	18	R	VCDF 38A
0002	PC	23	1	002	1ST SELR PC	A 0	FR103-A-2	T532516	18	R	VCDF 38A
0003	PC	23	1	102	1ST SELR PC	A 0	FR103-A-3	T532516	18	R	VCDF 38A
0004	PC	23	1	003	OP PC TOT	A 1		T35017-11	H1	OP0	VCDF 38A
0005	PC	23	1	103	OP PC 1ST TRIAL	A 2	OP-1-0	T35017-11	H1	OP0	VCDF 38A
0006	PC	23	1	004	OP PC 1ST TRIAL	A 2	OP-1-1	T35017-11	H1	OP0	VCDF 38A
0007	PC	23	1	104	OP PC 2ND TRIAL	A 3	OP-2-0	T35017-11	H1	OP0	VCDF 38A
0008	PC	23	1	005	OP PC 2ND TRIAL	A 3	OP-2-1	T35017-11	H1	OP0	VCDF 38A
0009	PC	23	1	105	OP PC FAIL	A 4	OP-F-0	T35018-11	H2	OSF	VCDF 38A
0010	PC	23	1	006	OP PC FAIL	A 4	OP-F-1	T35018-11	H2	OSF	VCDF 38A
0011	PC	23	1	106	OP PC SZRE FAIL	A 5	OP-SF-0	T35018-11	H2	OSF	VCDF 38A
0012	PC	23	1	007	IDENT FAIL	A 6		T30868-20,21	1	R	HCDF L36
0013			23	1	107	SPARE					
0014			23	1	008	SPARE					
0015			23	1	108	SPARE					
0016	01	23	2	009	AFB LFG1	P 11	LFDR-1-A	T532516	18	OF	VCDF 38A
0017	01	23	2	109	AFB LFG2	P 12	LFDR-2-A	T532516	18	OF	VCDF 38A
0018	01	23	2	010	AFB LFG3	P 13	LFDR-3-A	T532516	18	OF	VCDF 38A
0019			23	2	110	SPARE					
0020			23	2	011	SPARE					
0021			23	2	111	SPARE					
0022			23	2	012	SPARE					
0023			23	2	112	SPARE					
0024	10	23	2	013	LFG USG LFG1	P 14	LFDR-1-0	T532004	16	S	HCDF J1
0025	10	23	2	113	LFG USG LFG1	P 14	LFDR-1-1	T532004	16	S	HCDF J1
0026	10	23	2	014	LFG USG LFG1	P 14	LFDR-1-2	T532004	16	S	HCDF J1
0027	10	23	2	114	LFG USG LFG1	P 14	LFDR-1-3	T532004	16	S	HCDF J1
0028	10	23	2	015	LFG USG LFG1	P 14	LFDR-1-4	T532004	16	S	HCDF J1
0029	10	23	2	115	LFG USG LFG1	P 14	LFDR-1-5	T532004	16	S	HCDF J1
0030	10	23	2	016	LFG USG LFG1	P 14	LFDR-1-6	T532004	16	S	HCDF J1
0031	10	23	2	116	LFG USG LFG1	P 14	LFDR-1-7	T532004	16	S	HCDF J1
0032	10	23	3	017	LFG USG LFG1	P 14	LFDR-1-8	T532004	16	S	HCDF J1
0033	10	23	3	117	LFG USG LFG1	P 14	LFDR-1-9	T532004	16	S	HCDF J1
0034	10	23	3	018	LFG USG LFG1	P 14	LFDR-1-10	T532004	16	S	HCDF J1
0035	10	23	3	118	LFG USG LFG1	P 14	LFDR-1-11	T532004	16	S	HCDF J1
0036	10	23	3	019	LFG USG LFG1	P 14	LFDR-1-12	T532004	16	S	HCDF J1
0037	10	23	3	119	LFG USG LFG1	P 14	LFDR-1-13	T532004	16	S	HCDF J1
0038	10	23	3	020	LFG USG LFG2	P 15	LFDR-2-0	T532004	20	S	HCDF J2
0039	10	23	3	120	LFG USG LFG2	P 15	LFDR-2-1	T532004	20	S	HCDF J2

PRINT DATE 7-Dec-79 T-BASE-CG-482
ISSUE 0001-03
PROJECT NUMBER 38256 PAGE 1
MAP Issue No. 1
-482 Issue No. 1

Fig. 4—PDT-2A Scan Input Assignment Drawing for
SONDS Application(482 Drawing)(2.03, 2.07)

Line
Number

```

1.      aaaaaaaaaaaaaaaaaaaaaa
2.      PDT-2A IDENTIFICATION NO. dddd
3.      PDT-2A TELEPHONE NO. NXX-ABC-XXXX
4.      SONDS MAP ISSUE NO. iiii, ISSUE DATE ee fff gg
5.      PDT-2A GENERIC COMPATIBILITY CODE cccccc
6.      M
7.      addd iiii
8.
9.      PC mmmm
10.     xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx
11.     xxxx xxxx xxxx xxxx
12.
13.     Ø1 nnnn
14.     YYYY YYYY YYYY YYYY YYYY YYYY YYYY YYYY YYYY
15.     YYYY YYYY YYYY YYYY
16.
17.     lØ pppp
18.     zzzz zzzz zzzz zzzz zzzz zzzz zzzz zzzz zzzz
19.     zzzz zzzz zzzz zzzz
20.
21.     AR qqqq
22.
23.     PR rrrr
24.
25.     RA ssss
26.     tuuu tuuu tuuu tuuu tuuu tuuu tuuu tuuu tuuu tuuu
27.     tuuu tuuu tuuu tuuu tuuu tuuu tuuu tuuu tuuu tuuu
28.     tuuu tuuu tuuu tuuu
29.
30.     SA
31.     vvv vvv vvv
32.     vvv vvv vvv vvv vvv vvv vvv vvv vvv vvv
33.     +vvv vvv
34.     vvv vvv vvv vvv
35.
36.     CC hjjj
37.
38.     CS wwww

```

Fig. 5—SONDS PDT-2A Data Base MAP (3.08)

5

Wallace Business Forms, Inc.



**Intra Company Order
Service Center**

Date: _____
Date Required: _____

W.E. Order No. **1**
Page _____

Mail Shipping Papers To: 3	Ship To: 4	Ship Via
Source: 2	Marking & Packing Instructions	Special Instructions
		Approved By: _____

Telephone Company Accounting

RCO	RCC	Auth. (Est)	Geo. Loc. Ind (Area)	CPR Code	Env	Transp. Account
-----	-----	-------------	----------------------	----------	-----	-----------------

Item	Qty Ordered	Unit	Product ID	Description	FIC/Account
				5	
				6	
				7	

SD-94-576
(9-77)

Fig. 6—Form SD-94-576, Intra Company Order (3.02)

STATUS (A-ADD (C-CHANGE) (D-DELETE)	DATA SOURCE	NBR OF SCAN INPUTS	PDT-2A		POLLABLE DATA TERMINAL NO. 2A	
			SCAN RATE	ACCUM REGISTER NO.		PEAK REGISTER NO.
A	FIRST SELECTOR PC	5	PC	1	ASSIGNMENT WORKSHEET FOR ()	
	OUTPUTSER 1st TRIAL	1	PC	2, 7	APPLICATION LOCATED IN: OFFICE NAME ()	
	OUTPUTSER 2nd TRIAL	1	PC	3, 7	OFFICE BASE NO. ()	
	OUTPUTSER FAILURE	1	PC	4, 7	ASSOCIATED WITH: CONTROL GROUP NO. ()	
	ANI-PLANT TEST CALLS	1	PC	5	LOCATED IN: OFFICE NAME ()	
	ANI OPR IDENT CALLS	1	PC	6	OFFICE BASE NO. ()	
	ALL FINDERS BUSY LG1	1	01		13	ASSOCIATED WITH: CONTROL GROUP NO. ()
	ALL FINDERS BUSY LG2	1	01		14	LOCATED IN: OFFICE NAME ()
	ALL FINDERS BUSY LG3	1	01		15	OFFICE BASE NO. ()
	LINE GROUP USAGE LG1	15	10		16	
	LINE GROUP USAGE LG2	15	10		17	PDT-2A IDENTIFICATION NO. ()
	LINE GROUP USAGE LG3	15	10		18	
	CONNECTOR USAGE 74XX	8	10		19	
	CONNECTOR USAGE 75XX	8	10		20	PDT-2A TELEPHONE NUMBER: ()
	CONNECTOR USAGE 76XX	8	10		21	
	REVERTING CALL TRUNKS	4	10	8	22	
	CAMA-ANI	14	10		23	

PRINTED IN USA

TELCO ORDER NO _____ APPX _____ SECT _____ PAGE _____

E8173 ISS 0002

SECTION "F" (PDT-2A ASGN WORKSHEET)

Fig. 7—Example PDT-2A Register Assignment Work Sheet (3.08)

GATEWAY II
TELEPHONE NUMBERS

110 BAUD (MODEL 33 AND 35 TELETYPEWRITERS)
 300 BAUD (TEXAS INSTRUMENT, TELENET, MODEL 43 TELETYPEWRITERS, ECT.)

	CORNET -----	DDD ---
NEW YORK	8-222-6311	212-571-6311
GUILFORD CENTER	8-578-6000	919-697-6000
CENTRAL REGION	8-368-2353	312-981-2353
EASTERN REGION	-----	301-667-9730
MTN NW REGION	-----	303-343-4850
SOUTHWEST REGION	8-377-3225	314-391-3225
SOUTHERN REGION	-----	404-256-5170
PACIFIC REGION	8-452-6700	408-745-6700
NORTHEAST REGION	8-224-4520	201-468-4520
" "	8-224-4550	201-468-4550
" "	8-224-4560	-----
1200 BPS FULL DUPLEX	-----	201-468-4580-
1200 BPS HALF DUPLEX	-----	201-468-4500

NOTES:

1. After data connection is established, type capital letter O, then DECI to initiate the sequence shown on Page 2.
2. 1200 BPS users should type ØKBDECI to initiate the login sequence.
3. In all IMAP program sequences shown below, the responses shown enclosed by a rectangle are typed by the user.

Fig. 8—List of Telephone Numbers to Access the WE Time-Shared System (3.13)

LOGIN PROCEDURE

GATEWAY DEC1/6.03A 09:39:25 TTY101 svstem 661/654
Please LOGIN or ATTACH

← Type this when using a full duplex terminal.

JOB 25 GATEWAY DEC1/6.03A TTY101

Userid: ← Obtain from Equipment Engineer
Password: ← Obtain from Equipment Engineer

A/C INFO:
> ← Obtain from Equipment Engineer
0940 24-Mar-80 Mon

THE SIGN-ON CODE OF "OKBDEC1" IS BEING REMOVED, PLEASE USE "ODEC1" INSTEAD.

DUE TO PREVENTITIVE MAINTANENCE ON THE COMMUNICATION EQUIPMENT, ONLY CERTAIN PHONE NUMBERS WILL BE AVAILABLE ON SUNDAYS BETWEEN THE HOURS OF 1AM AND 5AM (EDST). FOR MORE INFO, TYPE 'HELP SUNDAY'.

FOR A COMPLETE LIST OF GATEWAY ACCESS NUMBERS, TYPE 'HELP GUPHON' (UPDATED 3-17-80). FOR USER ASSITANCE TYPE 'HELP PEOPLE'.

THE LONG ROUTE ANALYSIS PROGRAM(LRAP) IS AVAIL.PLEASE CONTACT YOUR EPLANS CO ORDINATOR FOR INFORMATION.

-----> PDT/2A IMAP SYSTEM <-----

- 01-31-80 SECONDARY REGISTER MAXIMUM CHANGED
- 12-10-79 IMAP PASSWORD REQUIRED - USE 'TELCO' TURNOVER COMMAND ADDED PROJECT NUMBER FOR IDENTIFICATION
- 11-01-79 EDIT FOR EQUIPMENT DESIGNATION
- 10-16-79 SAVE COMMAND ADDED ISSUE NUMBER CHANGES 482 DRAWING FORMAT CHANGE
- 08-07-79 EADAS APPLICATION AVAILABLE
- 05-15-79 DATA SOURCE RESTRICTION REMOVED

= Typed by user.

Fig. 9—Data Base Generation Inputs (Sheet 1 of 4) (3.13, 3.14, 4.03)

04-25-79 ACCUMULATING REGISTER PROBLEM

04-18-79 482 EDIT SUBCOMMANDS

03-26-79 REGISTER ASSIGNMENT INCREASE

PLEASE TYPE IN THE COMMAND - NEWS
AT THE IMAP FUNCTION = LEVEL
FOR A MORE COMPLETE EXPLANATION OF CURRENT NEWS
ITEMS AND A LIST OF IMAP SYSTEM COMMANDS AVAILABLE
AT THIS TIME.

IN CASE OF PROBLEMS WITH THE IMAP SYSTEM,

PLEASE CALL DON SMITH ON CORNET 353-4102
OR 1-614-868-4102.

Fig. 9—Data Base Generation Inputs (Sheet 2 of 4) (3.13, 3.14, 4.03)

LOGIN EXAMPLE - NEW DATA BASE

Good morning
RDES-IMAP at your service

ENTER IMAP PASSWORD =
INCORRECT RESPONSE

ENTER IMAP PASSWORD =

INCORRECT RESPONSE

ENTER IMAP PASSWORD =

ENTER PDT-2A APPLICATION =

FOR A NEW PDT-2A, TYPE NUMBER 0000

PDT-2A IDENTIFICATION NUMBER =0000

THIS IS A NEW PDT-2A OFFICE
CONFIRM (Y OR N) =

PDT-2A OFFICE NAME =

PDT-2A TELEPHONE NUMBER.(12 CHAR) =

FOUR CHARACTER OFFICE BASE NUMBER =

TWO CHARACTER OFFICE CONTROL GROUP =

FIVE CHARACTER PROJECT NUMBER =

OFFICE NAME: PETIT JEAN ,ARK.
TELEPHONE NO. 551 727 5611
PDT-2A ID NO. 0088 ← *Assigned by IMAP Program*
OFFICE BASE NO. 2T64
CONTROL GROUP: FO
PROJECT NO: 12345

CHANGE OFFICE IDENTIFYING INFORMATION? =

IMAP FUNCTION =

Fig 9—Data Base Generation Inputs (Sheet 3 of 4) (3.13, 3.14, 4.03)

LOGIN EXAMPLE - OLD DATA BASE

Good morning
RDES-IMAP at your service

ENTER IMAP PASSWORD = WECCO

INCORRECT RESPONSE

ENTER IMAP PASSWORD = TELCO

ENTER PDT-2A APPLICATION = SONDS

FOR A NEW PDT-2A, TYPE NUMBER 0000

PDT-2A IDENTIFICATION NO = 0088

OFFICE NAME: PETIT JEAN, ARK
TELEPHONE NO: 501 727 5611
PDT-2A ID NO: 0088
OFFICE BASE NO: 2T64
CONTROL GROUP: FD
PROJECT NUMBER:

CHANGE OFFICE IDENTIFYING INFORMATION? = N

CHANGING OFFICE IDENTIFYING INFORMATION - EXAMPLE

CHANGE OFFICE IDENTIFYING INFORMATION? = Y

CHANGE PDT-2A OFFICE NAME (Y OR N) = N

CHANGE PDT-2A TELEPHONE NO. (Y OR N) = N

CHANGE OFFICE BASE NO. (Y OR N) = N

CHANGE OFFICE CONTROL GROUP (Y OR N) = N

CHANGE PROJECT NUMBER (Y OR N) = Y

FIVE CHARACTER PROJECT NUMBER = 12345

OFFICE NAME: PETIT JEAN, ARK
TELEPHONE NO: 501 727 5611
PDT-2A ID NO: 0088
OFFICE BASE NO: 2T64
CONTROL GROUP: FD
PROJECT NUMBER: 12345

CHANGE OFFICE IDENTIFYING INFORMATION? = N

A Y (yes) entered in response to these questions would have allowed a new entry for the category

Fig. 9—Data Base Generation Inputs (Sheet 4 of 4) (3.13, 3.14, 4.03)

IMAP "NEWS" FUNCTION

NEWS - THIS COMMAND PRINTS A BRIEF DESCRIPTION OF THE AVAILABLE COMMANDS AND WILL BE USED TO CONVEY SYSTEM CHANGES TO ALL USERS.

IMAP FUNCTION = NEWS

-----> PDT/2A IMAP SYSTEM NEWS <-----

SECONDARY REGISTER MAXIMUM CHANGED -

For SOUNDS applications the maximum number of secondary registers has been increased to 300 assignments. All existing data bases may be extended to this new limit, if necessary. EADAS applications will continue to allow 200 secondary register assignments.

IMAP PASSWORD REQUIRED -

With the completion of billing procedure changes an IMAP PASSWORD will be required to identify all users as either WECO or TELCO. During the login sequence the user is prompted for A/C INFO: the answer provides the system with two items of information. Any number between 0 and 9999 may be entered here, this number will serve to identify this terminal session for billing purposes. Following the number, a WECO user must enter a 'W' (eg. 1234W), while a TELCO user would only enter the number. The user is then logged in to the IMAP system which will immediately request the user ENTER IMAP PASSWORD. The system has already identified the user as WECO or TELCO by the A/C INFO: request, so the proper password must be given. A default has been established for all USERID's, it is 'WECO' for WECO users and 'TELCO' for TELCO users. After three unsuccessful attempts to input the password the user will be logged out. Call IMAP user support if you wish unique passwords for any particular USERID (a programmed solution will be offered later).

Since IMAP is now being billed as an EPLANS system, it is necessary that SD 1-576 contain the billing information for both WECO and TELCO users. TELCO users should consult their EPLANS coordinator and WECO users should consult the regional SSE. All new USERID's will be assigned by the regional SSE. Most USERID's currently contain only the WECO billing information.

Prices have been established for editing all data, printing of the 482-drawing, and new or old MAP transmissions. Users have access to the NEWS command at no cost. Following this listing of the NEWS if you have logged in incorrectly you may LOGOUT and reenter the system with no billing records made.

Fig. 10—NEWS Command (Sheet 1 of 6) (3.14, 4.03)

IMAP "NEWS" FUNCTION - cont'd**TURNOVER COMMAND ADDED -**

The TURNOVER command has been added to the IMAP system to control access to the PDT/2A data files used in generating the MAP data. By system default all new PDT/2A data bases are under WECO control. Control means the ability to make MAP affecting changes to the data base. All other functions do not require control, except TURNOVER which is used to transfer control between WECO and TELCO users. By requesting unique passwords for IMAP login and controlled access to the data base, each user can prevent unauthorized modifications to any PDT/2A data base under his control.

PROJECT NUMBER FOR IDENTIFICATION -

A new item for identification purposes has been added to the PDT/2A data base. During the login sequence for office identifying information a new line for the TELCO ORDER PROJECT NUMBER has been added. This field may contain five alphanumeric characters and be modified at each login. The PROJECT NUMBER will also be included in printouts of the 482-drawing in the lower right hand corner of each page.

EDIT FOR EQUIPMENT DESIGNATION

EQUIPMENT DESIGNATION IS A NEW HEADING APPEARING ON THE 482-DRAWING. DATA MUST BE ADDED THROUGH THE EDIT COMMAND FOR 482 DRAWINGS. THE INITIAL PROMPT WILL REQUEST THE TYPE OF DATA TO BE EDITED: 1) CONNECTING CIRCUIT OR 2) EQUIPMENT DESIGNATION. ALL 482 EDIT SUBCOMMANDS ARE AVAILABLE FOR USE, AND PERFORM THE SAME FUNCTION, ALTHOUGH THE ONLY DATA FIELD IS EQUIPMENT DESIGNATION WHICH IS LIMITED TO FIFTEEN (15) COLUMNS.

SAVE COMMAND ADDED -

A NEW EDIT SUBCOMMAND HAS BEEN ADDED TO THE IMAP SYSTEM TO IMPROVE DATA RELIABILITY. SYSTEM DISCONNECTS DO OCCUR AND IN THE PAST HAVE CAUSED SEVERE PROBLEMS TO THE PDT-2A DATA BASE. THE NEW SAVE COMMAND SHOULD ELIMINATE ANY DATA PROBLEMS CAUSED BY AN INVOLUNTARY INTERRUPTION OF THE IMAP SYSTEM. THE DATA BASE WILL BE MAINTAINED INTACT AS OF THE MOST RECENT SAVE OR END COMMAND. WHEN ENTERING DATA FOR A NEW PDT-2A OR USING THE ADD COMMAND FOR NEW REGISTERS AN AUTOMATIC SAVE COMMAND WILL BE EXECUTED FOR EACH TEN (10) PRIMARY REGISTERS ADDED.

ISSUE NUMBER CHANGES -

THE ISSUE NUMBER PREVIOUSLY ASSOCIATED WITH THE PDT-2A MAP WILL NOW BECOME THE DATA ISSUE. ANY CHANGE TO THE DATA BASE THAT WOULD RESULT IN A MAP CHANGE WILL CAUSE THE DATA ISSUE TO BE INCREMENTED AT EACH TERMINATION OF THE EDIT COMMAND. THIS DATA ISSUE WILL BE PLACED ON EACH MAP AS THE MAP ISSUE, AND ALSO ON EACH 482-DRAWING AS THE FIRST FOUR DIGITS OF THAT ISSUE. THE TWO DIGITS FOLLOWING THE DASH ON THE 482-DRAWING WILL REFLECT CHANGES TO THE CONNECTING CIRCUIT INFORMATION, BEING INCREMENTED AT THE TERMINATION OF A 482 EDIT SESSION AND RESET TO 00 FOR ANY CHANGE TO THE MAP DATA.

Fig 10—NEWS Command (Sheet 2 of 6) (3.14, 4.03)

IMAP "NEWS" FUNCTION - cont'd

482-DRAWING FORMAT CHANGE -

TWO NEW HEADINGS HAVE BEEN ADDED TO THE 482-DRAWING. SCAN RATE WILL NOW BE LISTED FOR ALL INPUTS. EQUIPMENT DESIGNATION IS A COMPLETELY NEW HEADING FOR WHICH DATA MUST BE ENTERED BY MEANS OF AN ADDITIONAL EDIT FEATURE WHICH HAS NOT YET BEEN INCLUDED IN THE IMAP SYSTEM. IT IS INTENDED THAT THIS HEADING CONTAIN INFORMATION (SPECIFIC TO THE EQUIPMENT) THAT IS DETERMINED DURING VERIFICATION OF INPUT LEAD TO EQUIPMENT. AN EXAMPLE MIGHT BE: SWITCH FRAME NO. 103, SHELF A (FR103-A), OUTPUTS NO. 0 (OP-0), OR LINEFINDER 2 (LFDR2). FIFTEEN (15) COLUMNS HAVE BEEN MADE AVAILABLE FOR THIS HEADING BY REMOVING SEVENTEEN (17) COLUMNS FROM THE TERMINATING LOCATION HEADING. THE EDIT CHANGES TO INPUT THIS DATA SHOULD BE COMPLETE BY NOV. 1, HOWEVER IT WILL BE ANNOUNCED BY LOGIN MESSAGE.

EADAS APPLICATION AVAILABLE -

THE EADAS APPLICATION FOR PDT/2A HAS BEEN ADDED TO THE IMAP SYSTEM. ALL FUNCTIONS REMAIN THE SAME. THERE ARE SOME DIFFERENCES IN DATA QUANTITIES AND RESTRICTIONS. EADAS USERS MAY ASSIGN 512 REGISTERS, 0 TO 511, ALTHOUGH ONLY THE FIRST 250 WILL BE POLLED BY EADAS. REGISTER TYPE HAS DIFFERENT DESIGNATIONS FOR EADAS, A = ACCUM = 24HR AND P = PEAK = 30/60. ONE REGISTER MUST REMAIN AVAILABLE BETWEEN THE HIGHEST ASSIGNED 24HR REGISTER AND THE LOWEST ASSIGNED 30/60 REGISTER. THIS AVAILABLE REGISTER WILL BE ASSIGNED BY THE PDT/2A, NOT BY IMAP, TO FUNCTION AS A 24HR 'CYCLE COUNT' REGISTER WITH A SCAN RATE OF '10'. THE OPTIONAL USER ASSIGNED 'CYCLE COUNT' REGISTER MUST BE A 30/60 REGISTER AND WILL BE ASSIGNED A SCAN RATE OF '01'.

DATA SOURCE RESTRICTION - IS REMOVED - MAY 15, 1979
CURRENT PROGRAMS WITHIN THE IMAP SYSTEM ALLOW 24
CHARACTERS IN THE DATA SOURCE FIELD.

ACCUMULATING REGISTER PROBLEM -

THE SONDS APPLICATION GROUP IS REQUESTING ALL IMAP USERS TO AVOID ASSIGNING ANY NUMBER OF ACCUMULATING REGISTERS THAT IS DIVISIBLE BY 10. THE NUMBER OF ACCUMULATING REGISTERS IS DEFINED BY THE LOWEST PEAK REGISTER ASSIGNED MINUS ZERO. THIS PROBLEM APPLIES TO SONDS USERS ONLY. OFFICIAL WORD OF THIS PROBLEM WILL BE PROVIDED THROUGH NORMAL CHANNELS.

482 EDIT SUBCOMMANDS HAVE BEEN ADDED TO THE
NEWS LISTING EFFECTIVE 4/18/79.

CHANGE IN PDT-2A REGISTER ASSIGNMENTS -

EFFECTIVE 3/26/79 THE SONDS APPLICATION OF
PDT-2A WILL PERMIT REGISTER ASSIGNMENTS TO
REGISTER NUMBER 199. ALL OTHER RULES FOR
REGISTER ASSIGNMENT REMAIN THE SAME.

Fig. 10—NEWS Command (Sheet 3 of 6) (3.14, 4.03)

IMAP "NEWS" FUNCTION - cont'd

THE FOLLOWING COMMANDS ARE CURRENTLY AVAILABLE AT THE
 ' IMAP FUNCTION = ' LEVEL OF PROCESSING:

NEWS, EDIT, RECORDS, XMIT, TURNOVER, LOGOUT, STOP, TILT,
 ADDRESS, MESSAGE, ARCHIVE, AND RESTORE.

NEWS - THIS COMMAND PRINTS A BRIEF DESCRIPTION OF THE AVAILABLE
 COMMANDS AND WILL BE USED TO CONVEY SYSTEM CHANGES TO ALL
 USERS.

EDIT - THIS COMMAND IS USED TO ADD, CHANGE, DELETE AND DISPLAY
 INFORMATION FROM THE SOURCE DATA BASE. THERE ARE TWO
 TYPES OF DATA, ONE TO GENERATE THE MAPS, AND ONE FOR
 THE 482 DRAWINGS. FOLLOWING THIS LIST OF COMMANDS
 THE ' MAP EDIT FUNCTION = ' AND THE ' 482 EDIT FUNCTION = '
 SUBCOMMANDS WILL BE LISTED.

RECORDS - THIS COMMAND WILL CAUSE THE SOURCE DATA TO BE PRINTED
 ON THE GATEWAY II LINE PRINTER AND THEN MAILED TO THE
 ADDRESS ASSOCIATED WITH THIS USERID. A PROMPT WILL BE
 ISSUED TO CHANGE THE MAILING INFORMATION FOR THE PRINTOUT
 ONLY. THE SOURCE DATA CAN BE PRINTED BY REGISTER
 NUMBER OR BY INPUT NUMBER OR BOTH. THE DATA FOR THE
 482 DRAWINGS WILL ALSO BE LISTED IF IT HAS BEEN
 ENTERED INTO THE SYSTEM.

XMIT - THIS COMMAND IS USED TO TRANSMIT THE MAP FROM THE DATA
 BASE TO YOUR TERMINAL IN EITHER OF THE FOLLOWING FORMATS:

- 1) TO BE LISTED ON THE TERMINAL
- 2) TO BE PLACED ON ANY INTERMEDIATE STORAGE
 DEVICE SUCH AS TAPE CASSETTE, PAPER TAPE,
 OR BUBBLE MEMORY

THE USER MAY HAVE THE LAST MAP RETRANSMITTED OR HE MAY
 GENERATE A NEW MAP, REFLECTING ANY CHANGES IN THE SOURCE
 DATA BASE.

TURNOVER - THIS COMMAND IS USED TO TRANSFER CONTROL OF THE
 PDT/2A DATA BASE BETWEEN WECO AND TELCO USERS, THUS
 CONTROLLING ACCESS TO THE MAP DATA BASE. THE USER MUST
 HAVE CONTROL OF THE PDT/2A DATA BASE TO SUCCESSFULLY
 EXECUTE A TURNOVER OR TO MODIFY MAP AFFECTING DATA.

LOGOUT - THIS COMMAND IS FOR TERMINATING EACH SESSION ON THE
 COMPUTER. IT ASSURES THAT ADMINISTRATIVE FILES ARE
 PROPERLY UPDATED.

STOP - THIS COMMAND WILL TERMINATE CURRENT ACTIVITY AND RETURN
 TO THE SYSTEM FOR A NEW COMMAND AT IMAP FUNCTION =.

TILT - THIS COMMAND IS USED TO CORRECT OR RETYPE INPUT, IT WILL
 RETURN TO THE LAST PROMPT FOR INFORMATION.

ADDRESS - THIS COMMAND WILL ALLOW THE USER TO CHANGE THE
 ADDRESS ASSOCIATED WITH THIS USERID.

Fig. 10—NEWS Command (Sheet 4 of 6) (3.14, 4.03)

IMAP "NEWS" FUNCTION - cont'd

MESSAGE - THIS COMMAND WILL PRINT A MESSAGE THAT HAS BEEN SENT TO THIS USERID BY THE PDT/2A IMAP SYSTEM PROGRAMMER. AT LOGIN YOU WILL BE INFORMED A MESSAGE EXISTS.

ARCHIVE - THIS COMMAND IS USED TO STORE DATA FILES OFFLINE, AT A LOWER STORAGE COST. THIS COMMAND IS NOT CURRENTLY AVAILABLE.

RESTORE - THIS COMMAND IS USED TO RETRIEVE DATA FILES THAT HAVE BEEN ARCHIVED AND PLACE THE FILES ONLINE. THIS COMMAND IS NOT CURRENTLY AVAILABLE.

THE FOLLOWING IS A LIST OF THE EDIT SUBCOMMANDS AT THE
MAP EDIT FUNCTION = LEVEL OF PROCESSING:

ADD, CHANGE, DELETE, PRINT, DISPLAY,
TILT, STOP, SAVE, AND END.

ADD - THIS COMMAND HAS TWO OPTIONS. FIRST NEW REGISTERS OR WORKSHEET DATA MAY BE ADDED TO THE DATA BASE, TO TERMINATE THIS ACTIVITY TYPE IN 'QUIT'. THE SECOND OPTION ALLOWS ADDING A SECONDARY REGISTER TO AN EXISTING REGISTER ASSIGNMENT.

QUIT - WILL TERMINATE THE ADD SUBCOMMAND. IT SHOULD BE TYPED AFTER THE PROMPT DATA SOURCE =.

CHANGE - THIS COMMAND IS USED TO ALTER INFORMATION STORED IN THE DATA BASE. THE FOLLOWING ITEMS MAY BE CHANGED: DATA SOURCE, REGISTER TYPE, REGISTER NUMBER, AND THE NUMBER OF INPUTS ASSIGNED MAY BE INCREASED.

DELETE - THIS COMMAND HAS THE FOLLOWING OPTIONS: DELETE A PRIMARY OR SECONDARY REGISTER, OR DELETE INPUTS ASSIGNED.

PRINT - THIS COMMAND WILL PRINT THE FOLLOWING ITEMS FOR THE REGISTER SPECIFIED: DATA SOURCE, NUMBER OF INPUTS, SCAN RATE, REGISTER TYPE, REGISTER NUMBER (PRIMARY AND SECONDARY, IF ASSIGNED).

DISPLAY - WILL LIST ALL SOURCE DATA INPUTS BY INPUT NUMBER FOR THE SPECIFIED REGISTER.

TILT - WILL RETURN TO THE LAST PROMPT FOR INFORMATION.

STOP - WILL TERMINATE CURRENT ACTIVITY AND RETURN TO EDIT FOR THE NEXT SUBCOMMAND, USE END TO TERMINATE EDIT.

SAVE - WILL UPDATE ALL DATA FILES TO PROTECT THEIR INTEGRITY, MINIMIZING THE EFFECT OF AN INVOLUNTARY INTERRUPTION OF IMAP. IT SHOULD BE USED FREQUENTLY. THIS COMMAND WILL BE EXECUTED AUTOMATICALLY BY THE ADD COMMAND FOR EACH TEN (10) PRIMARY REGISTERS ASSIGNED, THE USER WILL BE SO NOTIFIED, AND WILL REMAIN WITHIN THE ADD COMMAND.

END - WILL RETURN TO THE MAP FUNCTION = LEVEL OF PROCESSING, ENDING THIS CALL TO THE EDIT COMMAND. EDIT MAY BE REENTERED ANY NUMBER OF TIMES.

Fig. 10—NEWS Command (Sheet 5 of 6) (3.14, 4.03)

IMAP "NEWS" FUNCTION - cont'd

THE FOLLOWING IS A LIST OF THE EDIT SUBCOMMANDS AT THE
 ' 482 EDIT FUNCTION = ' LEVEL OF PROCESSING:

ADD, ADD-LOOP, CHANGE, DELETE, PRINT, TILT, STOP, AND END.

ADD - THIS COMMAND IS USED TO CREATE THE 482 DRAWING DATA FOR ONE INPUT NUMBER AT A TIME. THE COMMAND WILL PROMPT FOR INPUT NUMBER AND THEN WILL PROMPT INDIVIDUALLY FOR ' T-DRAWING = ', ' FIGURE = ', ' LEAD DESIGNATION = ', AND ' TERMINATING LOCATION = '. THE MAXIMUM NUMBER OF CHARACTERS AVAILABLE FOR EACH ITEM IS 15, 5, 10, AND 25 RESPECTIVELY. THE COMMAND WILL CONTINUE UNTIL A 'STOP' IS ENTERED, WHICH WILL TERMINATE THIS COMMAND AND RETURN TO ' 482 EDIT FUNCTION = '.

ADD-LOOP - THIS COMMAND WILL ENTER IDENTICAL INFORMATION FOR A CONTIGUOUS SERIES OF INPUT NUMBERS. IT WILL PROMPT FOR START INPUT NUMBER AND END INPUT NUMBER, THEN IT WILL REQUEST THE DRAWING INFORMATION. AFTER COMPLETION IT WILL RETURN TO ' 482 EDIT FUNCTION = '.

CHANGE - THIS COMMAND IS USED TO MODIFY ANY DATA THAT HAS PREVIOUSLY BEEN ENTERED BY EITHER OF THE ADD COMMANDS. THE COMMAND WILL PROMPT FOR ONE INPUT NUMBER ONLY AND THEN REQUEST THE FIELD TO BE CHANGED.

DELETE - THIS COMMAND IS USED TO DELETE THE 482 DRAWING DATA THAT HAS BEEN ASSIGNED TO A SERIES OF CONTIGUOUS INPUT NUMBERS. IT WILL PROMPT FOR START AND END INPUT NUMBERS. IT WILL ALSO LIST THE DATA THAT HAS BEEN DELETED. TO DELETE ONLY ONE INPUT NUMBER THE START AND END NUMBER SHOULD BE THE SAME.

PRINT - THIS COMMAND IS USED TO LIST THE 482 DRAWING DATA THAT HAS BEEN ASSIGNED TO A SERIES OF CONTIGUOUS INPUT NUMBERS. IT WILL PROMPT FOR START AND END INPUT NUMBERS. THE INPUT NUMBER WILL BE LISTED WITH THE T-DRAWING, FIGURE, LEAD DESIGNATION, AND TERMINATING LOCATION.

TILT - WILL RETURN TO THE LAST PROMPT FOR INFORMATION.

STOP - WILL TERMINATE CURRENT ACTIVITY AND RETURN TO EDIT FOR THE NEXT SUBCOMMAND, USE END TO TERMINATE EDIT.

END - WILL RETURN TO THE ' IMAP FUNCTION = ' LEVEL OF PROCESSING, ENDING THIS CALL TO THE EDIT COMMAND. EDIT MAY BE REENTERED ANY NUMBER OF TIMES.

A MORE COMPLETE DESCRIPTION, WITH EXAMPLES, WILL BE AVAILABLE IN BSP 190-514-020, PDT/2A DATA COLLECTION REQUIREMENTS.

Fig. 10—NEWS Command (Sheet 6 of 6) (3.14, 4.03)

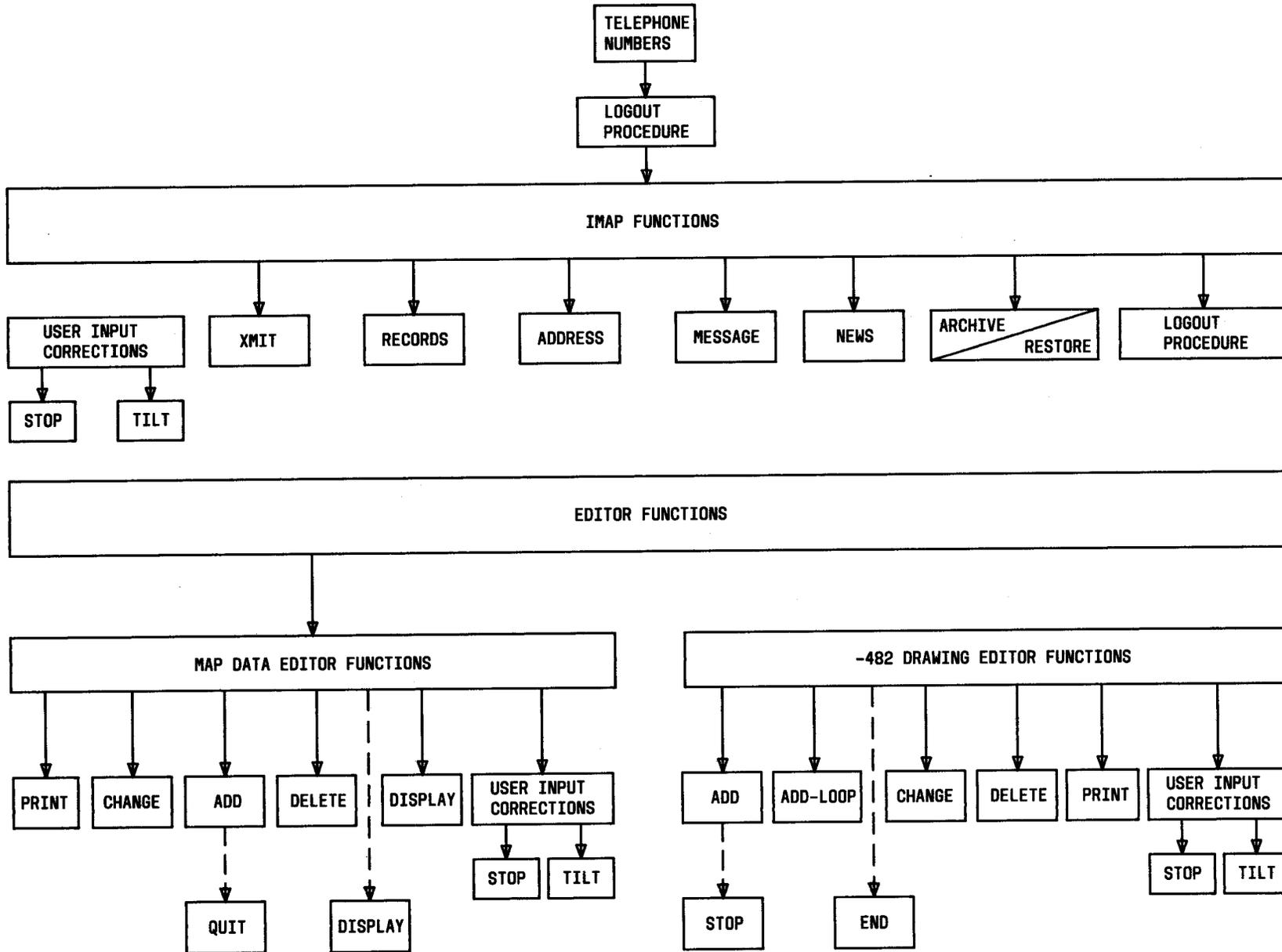


Fig. 11—IMAP Block Diagram (4.03)

IMAP "RECORDS" FUNCTION

RECORDS - THIS COMMAND WILL CAUSE THE SOURCE DATA TO BE PRINTED ON THE GATEWAY II LINE PRINTER AND THEN MAILED TO THE ADDRESS ASSOCIATED WITH THIS USERID. A PROMPT WILL BE ISSUED TO CHANGE THE MAILING INFORMATION FOR THE PRINTOUT ONLY. THE SOURCE DATA CAN BE PRINTED BY REGISTER NUMBER OR BY INPUT NUMBER OR BOTH. THE DATA FOR THE 482 DRAWINGS WILL ALSO BE LISTED IF IT HAS BEEN ENTERED INTO THE SYSTEM.

IMAP FUNCTION =

SPECIFY THE TYPE OF PRINT RECORDS DESIRED

1. ORDERED BY PDT-2A INPUT NUMBER
2. ORDERED BY PDT-2A REGISTER NUMBER
3. BOTH OF THE ABOVE

PRINT =

SPECIFY NUMBER OF COPIES DESIRED (1 TO 4) =

IMAP PRINT FUNCTION

IMAP PRINT FUNCTION COMPLETE

Use the default mailing address - Y or N =

N

Input temporary mailing address

Mailing info

4 lines of 34 characters max.

Name:

R R PLUM

Telco:

BELL LABORATORIES

Street:

ROOM 26523

City, state zip

HOLMDEL, N. J. 07733

[LPT:RECORD=/Seq:3126/Limit:176, 1 File]

PDT-2A "RECORDS" EXAMPLE

PDT-2A SCAN INPUT ASSIGNMENT
DRAWING FOR
SONDS APPLICATION

PDT-2A OFFICE NAME: SHORT MAP TEST
PDT-2A TELEPHONE NO.: 614-868-4102
PDT-2A IDENTIFICATION NO.: 0011

PDT-2A SCAN INPUTS SORTED BY INPUT NUMBERS ***** CONNECTING CIRCUIT INFORMATION *****

LEAD NO.	SCAN RATE	CP POS	PIN ROW NO.	DATA SOURCE	REGISTER TYPE NO.	EQUIPMENT DESIGNATION	CIRCUIT	FIG	LEAD DESIG	TERMINATING	LOCATION
0000	PC	23	1	001	1ST SELR PC	A 0	FR103-A-0	T532516	18	R	VCDF 38A
0001	PC	23	1	101	1ST SELR PC	A 0	FR103-A-1	T532516	18	R	VCDF 38A
0002	PC	23	1	002	1ST SELR PC	A 0	FR103-A-2	T532516	18	R	VCDF 38A
0003	PC	23	1	102	1ST SELR PC	A 0	FR103-A-3	T532516	18	R	VCDF 38A
0004	PC	23	1	003	OP PC TOT	A 1		T35017-11	H1	OPO	VCDF 38A
0005	PC	23	1	103	OP PC 1ST TRIAL	A 2	OP-1-0	T35017-11	H1	OPO	VCDF 38A
0006	PC	23	1	004	OP PC 1ST TRIAL	A 2	OP-1-1	T35017-11	H1	OPO	VCDF 38A
0007	PC	23	1	104	OP PC 2ND TRIAL	A 3	OP-2-0	T35017-11	H1	OPO	VCDF 38A
0008	PC	23	1	005	OP PC 2ND TRIAL	A 3	OP-2-1	T35017-11	H1	OPO	VCDF 38A
0009	PC	23	1	105	OP PC FAIL	A 4	OP-F-0	T35018-11	H2	OSF	VCDF 38A
0010	PC	23	1	006	OP PC FAIL	A 4	OP-F-1	T35018-11	H2	OSF	VCDF 38A
0011	PC	23	1	106	OP PC SZRE FAIL	A 5	OP-SF-0	T35018-11	H2	OSF	VCDF 38A
0012	PC	23	1	007	IDENT FAIL	A 6		T30868-20,21	1	R	HCDF L36
0013					SPARE						
0014					SPARE						
0015					SPARE						
0016	01	23	2	009	AFB LFG1	P 11	LFDR-1-A	T532516	18	OF	VCDF 38A
0017	01	23	2	109	AFB LFG2	P 12	LFDR-2-A	T532516	18	OF	VCDF 38A
0018	01	23	2	010	AFB LFG3	P 13	LFDR-3-A	T532516	18	OF	VCDF 38A
0019					SPARE						
0020					SPARE						
0021					SPARE						
0022					SPARE						
0023					SPARE						
0024	10	23	2	013	LFG USG LFG1	P 14	LFDR-1-0	T532004	16	S	HCDF J1
0025	10	23	2	113	LFG USG LFG1	P 14	LFDR-1-1	T532004	16	S	HCDF J1
0026	10	23	2	014	LFG USG LFG1	P 14	LFDR-1-2	T532004	16	S	HCDF J1
0027	10	23	2	114	LFG USG LFG1	P 14	LFDR-1-3	T532004	16	S	HCDF J1
0028	10	23	2	015	LFG USG LFG1	P 14	LFDR-1-4	T532004	16	S	HCDF J1
0029	10	23	2	115	LFG USG LFG1	P 14	LFDR-1-5	T532004	16	S	HCDF J1
0030	10	23	2	016	LFG USG LFG1	P 14	LFDR-1-6	T532004	16	S	HCDF J1
0031	10	23	2	116	LFG USG LFG1	P 14	LFDR-1-7	T532004	16	S	HCDF J1
0032	10	23	3	017	LFG USG LFG1	P 14	LFDR-1-8	T532004	16	S	HCDF J1
0033	10	23	3	117	LFG USG LFG1	P 14	LFDR-1-9	T532004	16	S	HCDF J1
0034	10	23	3	018	LFG USG LFG1	P 14	LFDR-1-10	T532004	16	S	HCDF J1
0035	10	23	3	118	LFG USG LFG1	P 14	LFDR-1-11	T532004	16	S	HCDF J1
0036	10	23	3	019	LFG USG LFG1	P 14	LFDR-1-12	T532004	16	S	HCDF J1
0037	10	23	3	119	LFG USG LFG1	P 14	LFDR-1-13	T532004	16	S	HCDF J1
0038	10	23	3	020	LFG USG LFG2	P 15	LFDR-2-0	T532004	20	S	HCDF J2
0039	10	23	3	120	LFG USG LFG2	P 15	LFDR-2-1	T532004	20	S	HCDF J2

PRINT DATE 7-Dec-79 T-BASE-CG-482
ISSUE 0001-03
PROJECT NUMBER 38256 PAGE 1

Fig. 12—RECORDS Command (4.03)

IMAP "ADDRESS" FUNCTION

ADDRESS - THIS COMMAND WILL ALLOW THE USER TO CHANGE THE ADDRESS ASSOCIATED WITH THIS USERID.

IMAP FUNCTION = ADDRESS

Current mailing address is:

RICHARD R PLUM
BELL LABORATORIES
ROOM 2G536
HOLMDEL,N.J.07733

Change your mailing address - Y or N =

>Y

Use the default mailing address - Y or N =

>N

Input temporary mailing address

Mailing info
4 lines of 34 characters max.

Name:
>RICHARD R RTILT

Telco:
>TILT

Street:
>STOP

City, state zip
>STOP

Present phone number:
201-949-5362

Change your phone number - Y or N =

>N

Example of nonoperation of "STOP" or "TILT" functions within IMAP "ADDRESS" function. See right-hand example for results of this dialogue and method of correction.

IMAP FUNCTION = ADDRESS

Current mailing address is:

RICHARD R RTILT
TILT
STOP
STOP

Change your mailing address - Y or N =

>Y

Use the default mailing address - Y or N =

>N

Input temporary mailing address

Mailing info
4 lines of 34 characters max.

Name:
>RICHARD R PLUM

Telco:
>BELL LABORATORIES

Street:
>ROOM 2G536ASSDKJLHSDXZK;DSFAKJ;FDSKJFGS;K'JFSDK;JFGDSK;'FDS;KSDA

Street:
>ROOM 2G523

City, state zip
>HOLMDEL, N. J. 07733

Present phone number:
201-949-5362

Change your phone number - Y or N =

>Y

Input phone number :
TYPE IN 1 LINE OF 15 CHARACTERS MAX.

PHONE:
>201-949 5362

Too many characters in an entry has the same effect as the "TILT" function which is inoperable in the "ADDRESS" function as shown in the left-hand example.

Fig. 13—ADDRESS Command (4.03)

IMAP "MESSAGE" FUNCTION

MESSAGE - THIS COMMAND WILL PRINT A MESSAGE THAT HAS BEEN SENT TO THIS USERID BY THE PDT/2A IMAP SYSTEM PROGRAMMER. AT LOGIN YOU WILL BE INFORMED A MESSAGE EXISTS.

IMAP FUNCTION = MESSAGE

No mail today

IMAP "ARCHIVE" AND "RESTORE" FUNCTIONS

ARCHIVE - THIS COMMAND IS USED TO STORE DATA FILES OFFLINE, AT A LOWER STORAGE COST. THIS COMMAND IS NOT CURRENTLY AVAILABLE.

RESTORE - THIS COMMAND IS USED TO RETRIEVE DATA FILES THAT HAVE BEEN ARCHIVED AND PLACE THE FILES ONLINE. THIS COMMAND IS NOT CURRENTLY AVAILABLE.

IMAP FUNCTION = ARCHIVE

ARCHIVE AND RESTORE COMMANDS TO BE IMPLEMENTED AT A LATER DATE

Fig. 14—MESSAGE, ARCHIVE, and RESTORE Command (4.03)

IMAP "XMIT" FUNCTION

XMIT - THIS COMMAND IS USED TO TRANSMIT THE MAP FROM THE DATA BASE TO YOUR TERMINAL IN EITHER OF THE FOLLOWING FORMATS:

- 1) TO BE LISTED ON THE TERMINAL
- 2) TO BE PLACED ON ANY INTERMEDIATE STORAGE DEVICE SUCH AS TAPE CASSETTE, PAPER TAPE, OR BUBBLE MEMORY

THE USER MAY HAVE THE LAST MAP RETRANSMITTED OR HE MAY GENERATE A NEW MAP, REFLECTING ANY CHANGES IN THE SOURCE DATA BASE.

IMAP FUNCTION = XMIT

INDICATE TYPE OF XMIT

1. GENERATE NEW MAP
2. COPY LAST MAP GENERATED

XMIT = 1

Note: Generating a new map destroys the copy of the last map.

IMAP XMIT FUNCTION

IMAP XMIT FUNCTION COMPLETE

Setup MAG-TAPE UNIT for reading MAP
TURN UNIT "ON", AND TYPE A (CARRIAGE-RETURN) WHEN READY

PDT 2A "MAP" EXAMPLE

PETIT JEAN, ARK
 PDT-2A TELEPHONE NO. 501 727 5611
 PDT-2A IDENTIFICATION NO. 0088
 SOUNDS MAP ISSUE NO. 0004 ISSUE DATE 16-Aug-79
 PDT-2A GENERIC COMPATIBILITY CODE 01
 M
 0088 0004

 PC 0002
 0000 0001

 01 0001
 0015

 10 002D
 0002 0003 0004 0005 0006 0007 0008 0009 000A 000B
 000C 000D 000E 000F 0010 0011 0012 0013 0014 0016
 0017 0018 0019 001A 001B 001C 001D 001E 001F 0020
 0021 0022 0023 0024 0025 0026 0027 0028 0029 002A
 002B 002C 002D 002E 002F

PDT 2A MAP EXAMPLE - cont'd

```

AR 000B
PR 0017
RA 017F
000 000 000 000 001 002 003 004 005 002
003 004 006 >DUM >DUM >DUM 00E 00E 00E 00E
00E 00E 00E 00E 00E 00E 00E 00E 00E 00E
01C 01C 01C 01B 01B 021 021 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 021 021 000A 000A 000A 000A 000A 000A
021 021 021 021 0006 0006 0006 0006 0006 0006
021 021 021 021 0008 0008 0008 0008 0008 0008
0008 0008 021 021 0004 0004 0004 0004 0004 0004
021 021 021 021 021 021 021 021 021 021
0002 021 021 021 021 021 021 021 021 021
021 021 021 021 021 021 021 021 020 020
020 020 020 021 021 021 021 021 0000 0000
0000 0000 0000 0000 021 021 021 021 021 021
021 021 021 021 01D 01D 01D 01D 01D 01D
01D 01D 01D 01D 021 021 021 021 00B 00C
00D >DUM >DUM >DUM >DUM >DUM >DUM 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 00F 00F 00F 00F 00F 021 021 021
021 021 010 010 010 010 010 010 010 010
010 010 010 010 010 010 021 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 021 021 021 021 018 018 018 018
018 018 018 021 021 021 01A 01A 01A 01A
01A 01A 01A 01A 01A 01A 019 019 019 019
019 019 019 019 019 019 019 019 019 019
021 021 021 021 021 021 021 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 021 021 021 021 021 021 021 021
01F 01F 01F 01F 01F 01F 01F 01F 01F 01F
01E 01E 01E 01E 01E 01E 01E 01E 01E 01E
01E 01E 01E 01E 021 021 021 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 021 021 021 021 021 021 021 021
021 021 021 021
SA
011 017
012 017
013 017
014 017
015 017
016 017
CC 00A
CS B1C1
    
```

Fig. 15—XMIT Command (4.03)

IMAP "TURNOVER" FUNCTION

TURNOVER - THIS COMMAND IS USED TO TRANSFER CONTROL OF THE PDT/2A DATA BASE BETWEEN WECO AND TELCO USERS, THUS CONTROLLING ACCESS TO THE MAP DATA BASE. THE USER MUST HAVE CONTROL OF THE PDT/2A DATA BASE TO SUCCESSFULLY EXECUTE A TURNOVER OR TO MODIFY MAP AFFECTING DATA.

IMAP FUNCTION = TURNOVER

TELCO NOW CONTROLS THIS PDT-2A

IMAP FUNCTION = TURNOVER

WECO NOW CONTROLS THIS PDT-2A

UNSUCCESSFUL TURNOVER ATTEMPT

IMAP FUNCTION = TURNOVER

WECO CONTROLS THIS PDT-2A, THEY MUST REQUEST TURNOVER

Fig. 16—IMAP TURNOVER Command (4.03)

STOP - THIS COMMAND WILL TERMINATE CURRENT ACTIVITY AND RETURN TO THE SYSTEM FOR A NEW COMMAND AT IMAP FUNCTION =.

TILT - THIS COMMAND IS USED TO CORRECT OR RETYPE INPUT, IT WILL RETURN TO THE LAST PROMPT FOR INFORMATION.

Fig. 17—STOP, TILT, and END Command (4.03)

LOGOUT - THIS COMMAND IS FOR TERMINATING EACH SESSION ON THE COMPUTER. IT ASSURES THAT ADMINISTRATIVE FILES ARE PROPERLY UPDATED.

```
IMAP FUNCTION = LOGOUT
Job 18 User IMAP PR9991PD
Logged-off TTY107 at 12:40:56 on 16-Aug-79
```

Fig. 18—LOGOUT Command (4.03)

IMAP "EDIT" FUNCTION

EDIT - THIS COMMAND IS USED TO ADD, CHANGE, DELETE AND DISPLAY INFORMATION FROM THE SOURCE DATA BASE. THERE ARE TWO TYPES OF DATA, ONE TO GENERATE THE MAPS, AND ONE FOR THE 482 DRAWINGS. FOLLOWING THIS LIST OF COMMANDS THE ' MAP EDIT FUNCTION = ' AND THE ' 482 EDIT FUNCTION = SUBCOMMANDS WILL BE LISTED.

EDIT MAP DATA

IMAP FUNCTION =

INDICATE TYPE OF EDIT

1. MAP DATA
2. 482 DRAWINGS

EDIT = 1

*** PDT-2A MAP EDIT FUNCTION ***

EDIT 482 DRAWINGS

IMAP FUNCTION =

INDICATE TYPE OF EDIT

1. MAP DATA
2. 482 DRAWINGS

EDIT = 2

*** PDT-2A 482 DRAWINGS EDIT FUNCTION

Fig. 19—EDIT Command (Sheet 1 of 17) (4.03)

MAP EDIT - "ADD" FUNCTION

ADD - THIS COMMAND HAS TWO OPTIONS. FIRST NEW REGISTERS OR WORKSHEET DATA MAY BE ADDED TO THE DATA BASE, TO TERMINATE THIS ACTIVITY TYPE IN 'QUIT'. THE SECOND OPTION ALLOWS ADDING A SECONDARY REGISTER TO AN EXISTING REGISTER ASSIGNMENT.

ADDING A NEW REGISTER

MAP EDIT FUNCTION =

INDICATE AN ADD ACTIVITY

1. ADD A NEW REGISTER
2. ADD SECONDARY REGISTER

ADD =

ENTER NEW PDT-2A WORKSHEET DATA
WHEN FINISHED TYPE QUIT

DATA SOURCE =

NUMBER OF SCAN INPUTS =

SCAN RATE (PC,01,10) =

HOW MANY REGISTERS ASSIGNED =

REGISTER TYPE (A OR P) =

REGISTER NUMBER =

NEXT WORKSHEET ITEM

MAP EDIT - "QUIT" FUNCTION

QUIT - WILL TERMINATE THE ADD SUBCOMMAND. IT SHOULD BE TYPED AFTER THE PROMPT DATA SOURCE =.

DATA SOURCE =

ADDING A SECONDARY REGISTER

MAP EDIT FUNCTION =

INDICATE AN ADD ACTIVITY

1. ADD A NEW REGISTER
2. ADD SECONDARY REGISTER

ADD =

REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMY	3	10	P	159

NEW REGISTER TYPE =

SECONDARY REGISTER NO. =

SECONDARY REGISTER ADDED

Fig. 19—EDIT Command (Sheet 2 of 17) (4.03)

MAP EDIT - "CHANGE" FUNCTION

CHANGE - THIS COMMAND IS USED TO ALTER INFORMATION STORED IN THE DATA BASE. THE FOLLOWING ITEMS MAY BE CHANGED: DATA SOURCE, REGISTER TYPE, REGISTER NUMBER, AND THE NUMBER OF INPUTS ASSIGNED MAY BE INCREASED.

CHANGING A DATA SOURCEMAP EDIT FUNCTION = REGISTER NUMBER =

TOO MANY CHARACTERS ENTERED, MAX =
PLEASE RE-ENTER OR TYPE STOP

REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMY	3	10	P	159
*	*	*	P	158

INDICATE A CHANGE ACTIVITY

1. DATA SOURCE
2. NO. OF INPUTS
3. REG. TYPE
4. REG. NO.

CHANGE = NEW DATA SOURCE =

CHANGE APPLIED

CHANGING NUMBER OF INPUTS - INCREASE ONLYMAP EDIT FUNCTION = REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMIE	3	10	P	159
*	*	*	P	158

INDICATE A CHANGE ACTIVITY

1. DATA SOURCE
2. NO. OF INPUTS
3. REG. TYPE
4. REG. NO.

CHANGE = NEW NO. OF INPUTS =

CHANGE APPLIED

Fig. 10—EDIT Command (Sheet 3 of 17) (4.03)

MAP EDIT "CHANGE" FUNCTION - cont'd

ATTEMPT TO DECREASE NUMBER OF INPUTS

MAP EDIT FUNCTION =

REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMIE	5	10	P	159
*	*	*	F	158

INDICATE A CHANGE ACTIVITY

1. DATA SOURCE
2. NO. OF INPUTS
3. REG. TYPE
4. REG. NO.

CHANGE =

NEW NO. OF INPUTS =

NO. OF INPUTS MAY ONLY BE INCREASED
USE DELETE FUNCTION TO REMOVE INPUTS

CHANGING REGISTER TYPE

NEW NO. OF INPUTS =

MAP EDIT FUNCTION =

REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMIE	5	10	F	159
*	*	*	P	158

INDICATE A CHANGE ACTIVITY

1. DATA SOURCE
2. NO. OF INPUTS
3. REG. TYPE
4. REG. NO.

CHANGE =

MORE THAN 1 REG. ASSIGNED, WHICH ONE DO YOU
WISH TO CHANGE

REGISTER NO. =

NEW REGISTER TYPE =

ACCUM REG MUST BE NUMERICALLY LESS THAN LOWEST PEAK REG.
CHANGE REJECTED

Fig. 19—EDIT Command (Sheet 4 of 17) (4.03)

MAP EDIT - "CHANGE" FUNCTION - cont'dCHANGING A REGISTER NUMBERMAP EDIT FUNCTION = REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMIE	5	10	P	159
*	*	*	P	158

INDICATE A CHANGE ACTIVITY

1. DATA SOURCE
2. NO. OF INPUTS
3. REG. TYPE
4. REG. NO.

CHANGE =

MORE THAN 1 REG. ASSIGNED, WHICH ONE DO YOU WISH TO CHANGE

REGISTER NO. = NEW REGISTER NUMBER =

CHANGE APPLIED

Fig. 19—EDIT Command (Sheet 5 of 17) (4.03)

MAP EDIT "DISPLAY" FUNCTION

DISPLAY - WILL LIST ALL SOURCE DATA INPUTS BY INPUT NUMBER FOR THE SPECIFIED REGISTER.

MAP EDIT FUNCTION =

REGISTER NUMBER =

REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUKHE	5	10	P	159
*	*	*	P	157

INPUTS ASSIGNED ARE:
1199 1200 1201 1202 1203

ATTEMPT TO DISPLAY AN UNASSIGNED REGISTER

MAP EDIT FUNCTION =

REGISTER NUMBER =

REGISTER NOT ASSIGNED
PLEASE TRY AGAIN

Fig. 19—EDIT Command (Sheet 6 of 17) (4.03)

MAP EDIT "DELETE" FUNCTION

DELETE - THIS COMMAND HAS THE FOLLOWING OPTIONS: DELETE A PRIMARY OR SECONDARY REGISTER, OR DELETE INPUTS ASSIGNED.

DELETING A REGISTERMAP EDIT FUNCTION = REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMIE	0003	10	P	159
*	*	*	P	157

INDICATE A DELETE ACTIVITY

1. DELETE A REGISTER
2. DELETE INPUTS

DELETE =

MORE THAN 1 REG. ASSIGNED, WHICH ONE DO YOU WISH TO CHANGE

REGISTER NO. =

REGISTER NOT ASSIGNED THIS SOURCE
TRY AGAIN

MORE THAN 1 REG. ASSIGNED, WHICH ONE DO YOU WISH TO CHANGE

REGISTER NO. =

REGISTER DELETED

DELETING INPUTSMAP EDIT FUNCTION = REGISTER NUMBER =

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
DUMMIE	5	10	P	159
*	*	*	P	157

INDICATE A DELETE ACTIVITY

1. DELETE A REGISTER
2. DELETE INPUTS

DELETE =

SPECIFY PDT-2A INPUT NUMBER TO BE DELETED
WHEN FINISHED TYPE STOP

INPUT NUMBER =

INPUT DELETED

NEXT INPUT NUMBER =

INPUT DELETED

NEXT INPUT NUMBER =

Fig. 19—EDIT Command (Sheet 7 of 17) (4.03)

MAP EDIT "PRINT" FUNCTION

PRINT - THIS COMMAND WILL PRINT THE FOLLOWING ITEMS FOR THE REGISTER SPECIFIED: DATA SOURCE, NUMBER OF INPUTS, SCAN RATE, REGISTER TYPE, REGISTER NUMBER (PRIMARY AND SECONDARY, IF ASSIGNED).

MAP EDIT FUNCTION =

START REGISTER NO. =

END REGISTER NO. = ← Program will only print assigned registers.

DATA SOURCE	INPUTS	SCAN	TYPE	REG.
1ST SELR PC	4	PC	A	0
OP PC TOT	1	PC	A	1
OP PC 1ST TRIAL	2	PC	A	2
OP PC 2ND TRIAL	2	PC	A	3
OP PC FAIL	2	PC	A	4
OP PC SZRE FAIL	1	PC	A	5
IDENT FAIL	1	PC	A	6
CYCLE COUNT	0000	10	A	10
AFB LFG1	1	01	P	11
AFB LFG2	1	01	P	12
AFB LFG3	1	01	P	13
LFG USG LFG1	14	10	P	14
LFG USG LFG2	5	10	P	15
LFG USG LFG3	14	10	P	16
CONN 99XX 1R	6	10	P	17
*	*	*	P	23
CONN 57XX 1R	6	10	P	18
*	*	*	P	23
CONN 56XX RU	6	10	P	19
*	*	*	P	23
CONN 55XX RU	6	10	P	20
*	*	*	P	23
CONN 54XX RO	8	10	P	21
*	*	*	P	23
CONN 52XX 1R	6	10	P	22
*	*	*	P	23
OGT TSPS	7	10	P	24
OGT MLTN EAS	14	10	P	25
OGT CAMA/ANI	10	10	P	26
OGT REP SVC	2	10	P	27
REV CALL	3	10	P	28
LOC 5TH SELR	10	10	P	29
INC MLTN EAS	14	10	P	30
INC TL COMPLG	10	10	P	31
SVC CODE SEL	5	10	P	32
DUMMY	214	10	P	33

Fig. 19—EDIT Command (Sheet 8 of 17) (4.03)

MAP EDIT "TILT" AND "STOP" FUNCTIONS

TILT - WILL RETURN TO THE LAST PROMPT FOR INFORMATION.

STOP - WILL TERMINATE CURRENT ACTIVITY AND RETURN TO EDIT FOR THE NEXT SUBCOMMAND, USE END TO TERMINATE EDIT.

MAP EDIT FUNCTION =

INDICATE AN ADD ACTIVITY

1. ADD A NEW REGISTER

2. ADD SECONDARY REGISTER

ADD =

ENTER NEW PDT-2A WORKSHEET DATA
WHEN FINISHED TYPE QUIT

DATA SOURCE =

NUMBER OF SCAN INPUTS =

NUMBER OF SCAN INPUTS =

SCAN RATE (PC,01,10) =

SCAN RATE (PC,01,10) =

DATA SOURCE =

MAP EDIT "END" FUNCTION

END - WILL RETURN TO THE IMAP FUNCTION = LEVEL OF PROCESSING, ENDING THIS CALL TO THE EDIT COMMAND. EDIT MAY BE REENTERED ANY NUMBER OF TIMES.

REGISTER NUMBER =

REGISTER NOT ASSIGNED
PLEASE TRY AGAIN

REGISTER NUMBER =

MAP EDIT FUNCTION =

IMAF FUNCTION =

Fig. 19—EDIT Command (Sheet 9 of 17) (4.03)

MAP EDIT "SAVE" FUNCTION

SAVE - WILL UPDATE ALL DATA FILES TO PROTECT THEIR INTEGRITY, MINIMIZING THE EFFECT OF AN INVOLUNTARY INTERRUPTION OF IMAP. IT SHOULD BE USED FREQUENTLY. THIS COMMAND WILL BE EXECUTED AUTOMATICALLY BY THE ADD COMMAND FOR EACH TEN (10) PRIMARY REGISTERS ASSIGNED, THE USER WILL BE SO NOTIFIED, AND WILL REMAIN WITHIN THE ADD COMMAND.

MAP EDIT FUNCTION =

MAP EDIT FUNCTION =

MAP EDIT "SAVE" FUNCTION - AUTOMATIC

DATA SOURCE =

NUMBER OF SCAN INPUTS =

SCAN RATE (PC,01,10) =

HOW MANY REGISTERS ASSIGNED =

REGISTER TYPE (A OR P) =

REGISTER NUMBER =

DOING AUTO SAVE

NEXT WORKSHEET ITEM

Fig. 19—EDIT Command (Sheet 10 of 17) (4.03)

482 EDIT "ADD" FUNCTION

ADD - THIS COMMAND IS USED TO CREATE THE 482 DRAWING DATA FOR ONE INPUT NUMBER AT A TIME. THE COMMAND WILL PROMPT FOR INPUT NUMBER AND THEN WILL PROMPT INDIVIDUALLY FOR ' T-DRAWING = ', ' FIGURE = ', ' LEAD DESIGNATION = ', AND ' TERMINATING LOCATION = '. THE MAXIMUM NUMBER OF CHARACTERS AVAILABLE FOR EACH ITEM IS 15, 5, 10, AND 25 RESPECTIVELY. THE COMMAND WILL CONTINUE UNTIL A 'STOP' IS ENTERED, WHICH WILL TERMINATE THIS COMMAND AND RETURN TO ' 482 EDIT FUNCTION = '.

ADDING BY INDIVIDUAL INPUTS

482 EDIT FUNCTION =

ENTER NEW INPUT ASSIGNMENT DATA
TYPE STOP WHEN FINISHED

PDT-2A INPUT NO. =

T-DRAWING =

FIGURE =

LEAD DESIGNATION =

TERMINATING LOCATION =

ENTER NEXT INPUT ASSIGNMENT

PDT-2A INPUT NO. =

T-DRAWING =

FIGURE =

LEAD DESIGNATION =

TERMINATING LOCATION =

ENTER NEXT INPUT ASSIGNMENT

PDT-2A INPUT NO. =

Fig. 19—EDIT Command (Sheet 11 of 17) (4.03)

482 "ADD-LOOP" FUNCTION

ADD-LOOP - THIS COMMAND WILL ENTER IDENTICAL INFORMATION FOR A CONTIGUOUS SERIES OF INPUT NUMBERS. IT WILL PROMPT FOR START INPUT NUMBER AND END INPUT NUMBER, THEN IT WILL REQUEST THE DRAWING INFORMATION. AFTER COMPLETION IT WILL RETURN TO ' 482 EDIT FUNCTION = '.

ADDING BY MULTIPLE INPUTS

482 EDIT FUNCTION =
START INPUT NO. =
END INPUT NO. =
T-DRAWING =
FIGURE =
LEAD DESIGNATION =
TERMINATING LOCATION =
482 EDIT FUNCTION =

Fig. 19—EDIT Command (Sheet 12 of 17) (4.03)

482 EDIT "CHANGE" FUNCTION

CHANGE - THIS COMMAND IS USED TO MODIFY ANY DATA THAT HAS PREVIOUSLY BEEN ENTERED BY EITHER OF THE ADD COMMANDS. THE COMMAND WILL PROMPT FOR ONE INPUT NUMBER ONLY AND THEN REQUEST THE FIELD TO BE CHANGED.

CHANGING "T" DESIGNATION

482 EDIT FUNCTION =

PDT-2A INPUT NO. =
 0009 12345-01 A 4Q HCDF P9

INDICATE FIELD TO CHANGE

1. T-DRAWING
2. FIGURE
3. LEAD DESIG.
4. TERMINATING LOCATION

FIELD =

T-DRAWING =

482 EDIT FUNCTION =

START INPUT NO. =

END INPUT NO. =
 0009 12346 A 4Q HCDF P9

CHANGING FIGURE DESIGNATION

482 EDIT FUNCTION =

PDT-2A INPUT NO. =
 0009 12346 A 4Q HCDF P9

INDICATE FIELD TO CHANGE

1. T-DRAWING
2. FIGURE
3. LEAD DESIG.
4. TERMINATING LOCATION

FIELD =

FIGURE =

Fig. 19—EDIT Command (Sheet 13 of 17) (4.03)

482 EDIT "CHANGE" FUNCTION - cont'd

CHANGING LEAD DESIGNATION

482 EDIT FUNCTION =

PDT-2A INPUT NO. =
0009 12346 B 4Q HCDF P9

INDICATE FIELD TO CHANGE

1. T-DRAWING
2. FIGURE
3. LEAD DESIG.
4. TERMINATING LOCATION

FIELD =

LEAD DESIGNATION =

CHANGING TERMINATING LOCATION

482 EDIT FUNCTION =

PDT-2A INPUT NO. =
0009 12346 B 8Q HCDF P9

INDICATE FIELD TO CHANGE

1. T-DRAWING
2. FIGURE
3. LEAD DESIG.
4. TERMINATING LOCATION

FIELD =

TERMINATING LOCATION =

Fig. 19—EDIT Command (Sheet 14 of 17) (4.03)

482 EDIT "PRINT" FUNCTION

PRINT - THIS COMMAND IS USED TO LIST THE 482 DRAWING DATA THAT HAS BEEN ASSIGNED TO A SERIES OF CONTIGUOUS INPUT NUMBERS. IT WILL PROMPT FOR START AND END INPUT NUMBERS. THE INPUT NUMBER WILL BE LISTED WITH THE T-DRAWING, FIGURE, LEAD DESIGNATION, AND TERMINATING LOCATION.

482 EDIT FUNCTION = PRINT

START INPUT NO. = 0

END INPUT NO. = 10

0000	95947-10	FG	AFB	HCDF A14
0001	32133-01	1	DF	HCDF 6G
0003	13245-01	A	4Q	HCDF P9
0004	13245-01	A	4Q	HCDF P9
0005	13245-01	A	4Q	HCDF P9
0006	13245-01	A	4Q	HCDF P9
0007	13245-01	A	4Q	HCDF P9
0008	13245-01	A	4Q	HCDF P9
0009	13245-01	A	4Q	HCDF P9

This list is a result of the "ADD" and "ADD-LOOP" data entries shown earlier.

Fig. 19—EDIT Command (Sheet 15 of 17) (4.03)

482 "DELETE" FUNCTION

DELETE - THIS COMMAND IS USED TO DELETE THE 482 DRAWING DATA THAT HAS BEEN ASSIGNED TO A SERIES OF CONTIGUOUS INPUT NUMBERS. IT WILL PROMPT FOR START AND END INPUT NUMBERS. IT WILL ALSO LIST THE DATA THAT HAS BEEN DELETED. TO DELETE ONLY ONE INPUT NUMBER THE START AND END NUMBER SHOULD BE THE SAME.

482 EDIT FUNCTION =

START INPUT NO. =

END INPUT NO. =

0000	95947-10	FG	AFB	HCDF A14
0001	32133-01	1	OF	HCDF 6G
0003	13245-01	A	4Q	HCDF P9
0004	13245-01	A	4Q	HCDF P9
0005	13245-01	A	4Q	HCDF P9
0006	13245-01	A	4Q	HCDF P9
0007	13245-01	A	4Q	HCDF P9
0008	13245-01	A	4Q	HCDF P9
0009	12346	B	8Q	VCDF 9P

RECORDS DELETED

Fig. 19—EDIT Command (Sheet 16 of 17) (4.03)

482 EDIT "TILT" AND "STOP" FUNCTIONS

TILT - WILL RETURN TO THE LAST PROMPT FOR INFORMATION.

STOP - WILL TERMINATE CURRENT ACTIVITY AND RETURN TO EDIT FOR THE NEXT SUBCOMMAND, USE END TO TERMINATE EDIT.

482 EDIT "END" FUNCTION

END - WILL RETURN TO THE / IMAP FUNCTION = / LEVEL OF PROCESSING, ENDING THIS CALL TO THE EDIT COMMAND. EDIT MAY BE REENTERED ANY NUMBER OF TIMES.

482 EDIT FUNCTION = END

IMAP FUNCTION =

Fig. 19—EDIT Command (Sheet 17 of 17) (4.03)

STATUS (A-ADD (C-CHANGE) (D-DELETE)	DATA SOURCE	NBR OF SCAN INPUTS	PDT-2A		POLLABLE DATA TERMINAL NO. 2A	
			SCAN RATE	ACCUM REGISTER NO.		PEAK REGISTER NO.
A	CONNECTOR 21XX	7	10		30, 35, 55	ASSIGNMENT WORKSHEET FOR () APPLICATION LOCATED IN: OFFICE NAME () OFFICE BASE NO. ()
	CONNECTOR 22XX	7			31, 35, 55	
	CONNECTOR 23XX	7			32, 35, 55	
	CONNECTOR 24XX	7			33, 35, 55	
↓	CONNECTOR 25XX	7	↓		34, 35, 55	
NOTE:	REG. 35 RECORDS 2XXX CCS (CONNECTOR THOUSANDS)					
A	CONNECTOR 31XX	7	10		36, 41, 55	ASSOCIATED WITH: CONTROL GROUP NO. () LOCATED IN: OFFICE BASE NO. () PDT-2A IDENTIFICATION NO. ()
	CONNECTOR 32XX	7			37, 41, 55	
	CONNECTOR 33XX	7			38, 41, 55	
	CONNECTOR 34XX	7			39, 41, 55	
↓	CONNECTOR 35XX	7	↓		40, 41, 55	
NOTE:	REG. 41 RECORDS 3XXX CCS (CONNECTOR THOUSANDS)					
	REG. 55 RECORDS TOTAL TERMINATING CCS (SEE PAR. 5.08)					
A	INCOMING EAS	20	10		42, 50	PDT-2A TELEPHONE NUMBER: ()
	INCOMING TOLL SWITCH	5			43, 50	
↓	INCOMING TOLL COMPLETING	10	↓		44, 50	
NOTE:	REG. 50 RECORDS TOTAL INCOMING CCS (SEE PAR. 5.08)					

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SECTION "F" (PDT-2A ASGN WORKSHEET)

Fig. 20—Example PDT-2A Assignment Work Sheet Differencing Register (5.08)

STATUS (A-ADD) (C-CHANGE) (D-DELETE)	DATA SOURCE	NBR OF SCAN INPUTS	PDT-2A		POLLABLE DATA TERMINAL NO. 2A	
			SCAN RATE	ACCUM REGISTER NO.		PEAK REGISTER NO.
A	CONNECTOR 21XX	7	10		30,35,55,55	ASSIGNMENT WORKSHEET FOR (_____) APPLICATION LOCATED IN: OFFICE NAME (_____) OFFICE BASE NO. (_____)
	CONNECTOR 22XX	7			31,35,55,55	
	CONNECTOR 23XX	7			32,35,55,55	
	CONNECTOR 24XX	7			33,35,55,55	
↓	CONNECTOR 25XX	7	↓		34,35,55,55	
NOTE:	REG. 35 RECORDS 2XXX CCS (CONNECTOR THOUSANDS)					
A	CONNECTOR 31XX	7	10		36,41,55,55	ASSOCIATED WITH: CONTROL GROUP NO. (_____) LOCATED IN: OFFICE BASE NO. (_____) PDT-2A IDENTIFICATION NO. (_____)
	CONNECTOR 32XX	7			37,41,55,55	
	CONNECTOR 33XX	7			38,41,55,55	
	CONNECTOR 34XX	7			39,41,55,55	
↓	CONNECTOR 35XX	7	↓		40,41,55,55	
NOTE:	REG. 41 RECORDS 3XXX CCS (CONNECTOR THOUSANDS)					
	REG. 55 RECORDS TWICE THE TOTAL TERMINATING CCS (SEE PAR. 5.10)					
A	INCOMING EAS	20	10		42,50	PDT-2A TELEPHONE NUMBER: (_____)
↓	INCOMING TOLL SWITCH	5			43,50	
↓	INCOMING TOLL COMPLETING	10	↓		44,50	
NOTE:	REG. 50 RECORDS TOTAL INCOMING CCS (SEE PAR. 5.10)					

STATUS (A-ADD) (C-CHANGE) (D-DELETE)	DATA SOURCE	NBR OF SCAN INPUTS	PDT-2A		POLLABLE DATA TERMINAL NO. 2A	
			SCAN RATE	ACCUM REGISTER NO.		PEAK REGISTER NO.
A	OUTGOING CAMA	20	10		45,55	ASSIGNMENT WORKSHEET FOR (_____) APPLICATION LOCATED IN: OFFICE NAME (_____) OFFICE BASE NO. (_____)
	OUTGOING TSPS	10			46,55	
↓	OUTGOING EAS	20	↓		47,55	
NOTE:	TOTAL OUTGOING CCS IS ADDED TO REG. 55 WHICH IS ALSO RECORDING TWICE THE TERMINATING CCS (SEE PAR. 5.10)					
						PDT-2A IDENTIFICATION NO. (_____)
						PDT-2A TELEPHONE NUMBER: (_____)

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SECTION "F" (PDT-2A ASGN WORKSHEET)

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SECTION "F" (PDT-2A ASGN WORKSHEET)

Fig. 21—Example PDT-2A Assignment Work Sheet Differencing Register (5.10)