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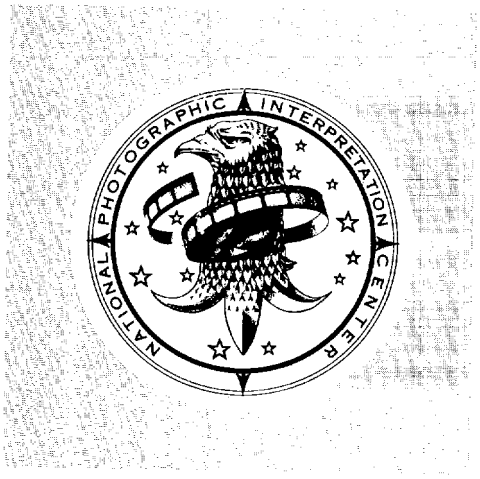

NATIONAL PHOTOGRAPHIC
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USER'S MANUAL FOR VERIFICATION, EDITING, AND APPROVAL

DECLASS REVIEW by NIMA/DOD

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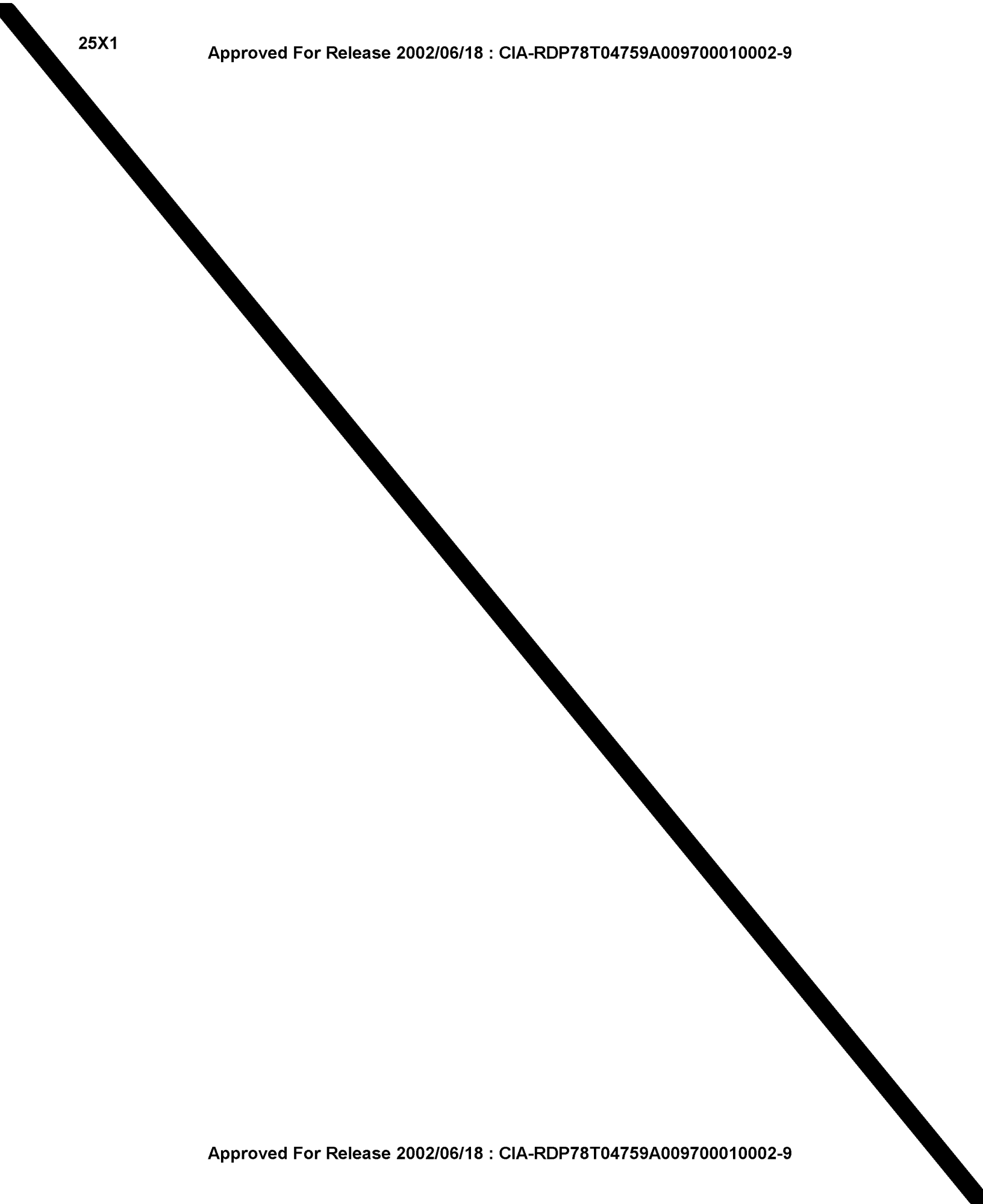

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CHAPTER I. THE VEA PROGRAM

The VEA Program enables you to verify, edit, and approve target readouts and mission highlights appearing on the screen of a Sanders Tabular Display device. Several of these devices are located in work areas throughout the building and are on line with the UNIVAC 494 computer system. They are also referred to as CRTs (cathode-ray tubes). Target readouts to be processed are those for which your component is responsible during the first- and second-phase exploitation of film derived from reconnaissance missions. Each readout (record) is stored in the Working File and identified by a machine reference number (MRN). Mission highlights are recorded only in MRN 1.

By using the VEA program you can correct data, syntax, grammar, and spelling. You can not control formatting; specifically, the length of a line, the designation of the beginning of a paragraph, or the insertion of a heading are not capabilities of VEA.

By displaying statistics on Working File records, the program also enables you to monitor the progress of records through verification, editing, and approval during any given mission. As each record is verified and then edited, it is returned to the Working File. After it has been approved, it is deleted from the Working File and entered in the Installations Data File (IDF) by the computer. These procedures are illustrated in Figure 1.

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HOW DATA IS
PROTECTED

By the Program

During the processing of readouts from any given mission, the VEA Program will be used concurrently by several people. To preclude unauthorized and incorrect changes to data during this time, several safeguards have been included in the program.

1) Working File records will be transmitted only to those CRTs designated to display them.

2) You will receive only the Working File records which are ready for the particular function you are performing, viz., verification, editing, or approval.

3) The computer checks each item to ensure that it contains the correct number of characters. If not, it will be returned for correction.

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By Administrative Procedures

Each division is responsible for ensuring that only authorized personnel use the VEA Program. In addition, the program can be called and run only from CRTs designated for that purpose. If you attempt to use a CRT that has not been reserved for the VEA Program, you will receive an error message to this effect.

TIME RESTRICTIONS

Every time you receive a display you have ten minutes in which to take action or transmit information to the computer. If you do not, communications between the CRT you are using and the computer will be automatically terminated. However, five minutes before the end of this interval, the UNSOL MSG switch will go on to indicate you have five minutes left in which to respond. Any valid response to the display you are viewing will give you another ten-minute period. If you are viewing an instructional display, complete one of the instructions. If you are viewing data, press one of the valid function switches for your display or press XMIT PAGE to transmit any changes you have made to the data on the screen. Typing data on the screen is not considered a transmission. In any case, do not press the UNSOL MSG light to turn it off; if you do, data may be lost.

ASSUMPTIONS

To use the VEA Program effectively it is assumed that you

* know how to operate a CRT; see Introduction to the Remote Access Computer Service, second edition; copies are available in AID/PSG;

* are familiar with the Working File and the Installations Data File, their content, format, and nomenclature;

* are familiar with the verification, editing and approval functions performed during the first- and second-phase exploitation of target readouts.

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CHAPTER II. CALLING THE PROGRAM ON A CRT

When you call the VEA Program on a CRT, you will transmit this information to the computer at the same time:

* the function to be performed, i.e., verification (V), editing (E), approval (A), or verification and editing (VE);

* phase of exploitation;

* complete mission designator and your component code;

* the logical equipment number (LEN) of the on-line printer you want used when you request a copy of a displayed page.

To call the program and transmit this information follow the steps listed on the next page. How to initialize a CRT is explained in the Introduction to the Remote Access Computer Service, second edition.

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STEP 1 Press [TYPE] control switch

[ERASE PAGE] control switch

STEP 2 Type VEA,LEN (of CRT you are using)

PRESS (CR) key, then (LF) key

Pressing the LF key will move the cursor to character position 1 in the next line.

STEP 3 Type [Component Code],[Name],[Extension]

Press (CR) key, then (LF) key

STEP 4 Type

[Function To Be Performed],[Phase],[Mission Designator],[Component Code],[Printer LEN]

Function:	V, E, A, or VE
Phase:	1 or 2
Mission designator:	Up to 9 characters; left justify; first 2 characters = collection system code; remainder are mission number
Component Code:	Code for your component. For VEA Approval function: to receive & review only readouts assigned to your component, insert component code; to review entries without regard to component, omit code & type 2 commas between mission designator & LEN of printer
LEN:	LEN of printer that will print displayed pages during your review

STEP 5 Press (EOM) key

XMIT PAGE control switch

Pressing this switch transmits all data you have typed to the computer.

After you have called the program the ACK MSG status lamp will go on almost immediately. You will then receive a message on the teletypewriter associated with the CRT you are using. The message will include these items: VEA, the first ten characters you typed on line 2 (STEP 3), and a job number (JNR) assigned by the computer system. Although other information will also appear in the message, you need not be concerned with it. For example:

```
VEA,DOE,IEG                SMT=1128          494P  JOB
JNR=1234567896    PRI=Ø  PTS=Ø      MCQ=2                 X
```

Wait for the UNSOL MSG switch (top row of function switches) to go on. When it does, press the switch to turn it off and wait for the Display of Processing Options to appear on the screen.

If communications with the computer system have not been properly established, that is, the ACK MSG lamp does not go on within a couple of seconds, follow the procedures given on the next page.

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(1) If the first three lines in your program call-up are still on the screen and the REPEAT ACTION status lamp is on, press the XMIT PAGE switch again.

(2) If there is no message on the screen and the REPEAT ACTION status lamp is on, repeat STEPS 2-5.

If there is no message on the screen and the REPEAT ACTION status lamp is off, repeat STEPS 1-5. If the lamp is still off, call the Chief, Systems Programming Branch/AID for assistance.

(3) If the first three lines of your program call-up are not on the screen but the letters EOT are, press ERASE PAGE and repeat STEPS 2-5.

(4) If there is some other message on the screen and it does not include the letters EOT, it is probable that the previous user has not terminated his program.

press [ERASE PAGE] control switch

type KILLTHEJOB

press [XMIT PAGE] control switch

If another message appears, press ERASE PAGE. Repeat STEPS 1-5.

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CHAPTER III. PROCESSING OPTIONS

OPTIONS FOR VERIFYING OR
VERIFYING AND EDITING

If you typed V or VE in the program calling sequence, the Display of Processing Options (Figure 2) will appear on the screen shortly after you have pressed the UNSOL MSG switch to turn it off. If you select the first option, TO RETRIEVE A SPECIFIC MRN, you will receive a display of a Working File record. To use this option

* place the cursor under the first dash

* type the machine reference number (MRN) of the record you want

* press the XMIT PAGE control switch

Type the numeral 1 if you want mission highlights displayed.

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The computer will then begin to retrieve data from the Working File, one sector at a time, and format it for display. While this operation is in progress, this message will appear on the screen:

VEA NOW IN PROCESS OF BUILDING - Sector - LINES

The word sector represents the mnemonic of the sector being retrieved and formatted. After all sectors have been formatted, the Working File record you requested will be displayed on the screen.

If you select the second option, by pressing the STATUS function switch, you will receive the Display of Status Options shown in Figure 4. This is explained in CHAPTER IV, THE STATUS OF WORKING FILE RECORDS.

OPTIONS FOR EDITING OR APPROVAL

If you typed E or A in the program calling sequence, you will receive the Display of Processing Options shown in Figure 3. The first two are identical to those available for verifying or verifying and editing. The third option will display the next Working File record to be processed by your component for the mission and phase you specified in the program call-up. If there are no more, you will receive an appropriate termination display. (See CHAPTER VII.)

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TYPING THE
WRONG MRN

If you have typed an incorrect machine reference number but have not yet pressed the XMIT PAGE control switch, you can change the number by typing the correct number over the incorrect number. If you have inadvertently typed anywhere except over the dashes, be sure to replace whatever you have changed.

If you unintentionally transmit a valid machine reference number, the corresponding Working File record will be displayed on the screen. At that point, you may either review the record or terminate communications with the computer by pressing the TERM function switch. If you press this switch, call the program again before transmitting another MRN. If you transmit an invalid MRN or an MRN not recorded in the Working File, you will receive an error message.

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CHAPTER IV. THE STATUS OF WORKING FILE RECORDS

If you pressed the STATUS function switch while processing options were displayed on the screen you will receive the Display of Status Options shown in Figure 4. These options can be displayed before and after -- but not during -- the processing of a Working File record.

By selecting the first option, you can obtain statistics on targets and Working File records pertaining to the mission and phase you specified when calling the program. This is called the Mission Status Display and is shown in Figure 5. A brief explanation of the statistics is given on the next page.

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PREDICTED	Number of targets predicted for your specified mission & phase of exploitation
REMAINING PREDICTED	Number of predicted targets minus number of approved readouts on predicted targets
UNPREDICTED	Number of readouts on unpredicted targets (new & bonus) entered for VEA processing
REMAINING UNPREDICTED	Number of readouts for unpredicted targets still in VEA processing
OFF FILM	Number of predicted targets not visible on photography at any given time
CLOUD COVERED	Number of predicted targets cloud covered during specified mission at any given time
TOTAL TARGETS ENTERED	Total number of target readouts entered in Working File for VEA processing
WAITING TO BE VERIFIED	Number of target readouts to be verified
WAITING TO BE EDITED	Number of target readouts to be edited
WAITING TO BE APPROVED	Number of target readouts to be approved

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By selecting the second option, you can receive one of the six displays illustrated in Figure 6. Each is explained below. NNNNNN represents a machine reference number.

MRN NNNNNN HAS BEEN PREDICTED	It was predicted that this target would be found on the film for the specified mission; however, no data on this target has been entered into the Working File
MRN NNNNNN HAS BEEN ENTERED	Readout for the target is in the Working File; to be verified
MRN NNNNNN HAS BEEN VERIFIED	Readout is in Working File; has been verified; to be edited
MRN NNNNNN HAS BEEN EDITED	Readout is in Working File; has been verified and edited; to be approved
MRN NNNNNN HAS BEEN APPROVED	Readout has been approved
MRN NNNNNN IS NOT IN THE WORKING FILE AND NOT PREDICTED	Target readout is not in Working File & was not predicted for this mission; be sure you specified correct MRN

After viewing the displays described in this chapter,

* press the PROCEED function switch to return to the Display of Processing Options

* or press the STATUS function switch to return to the Display of Status Options

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CHAPTER V. EDITING WORKING FILE RECORDS

Working File records on targets and mission highlights will be edited while they are displayed on a CRT screen. Each record consists of one or more "pages" of information. A "page" is the amount of data that can be displayed on a CRT screen at one time (1,944 characters or about 400 words). An example of one page of a Working File record is shown in Figure 7. The first three lines comprise a page header, which includes identifying data, defense classification, and codewords (if any), the copy you are viewing, viz., CURR for current, and a page number. Except for the page number, the header will remain unchanged, regardless of the number of pages to be displayed. This header will also remain the same while you are verifying or editing all pages of the displayed record. The fourth line of each page is reserved for error messages.

The body of the page consists of the fields and items that comprise each sector. The sectors that have been entered in the Working File appear in the order given on the next page.

Sector	Explanation
IHEAD	Installation identification - displayed only for new target entries
IPHOT	Photo references
ISTAT	Status/activity trinone & explanation
IOBJE	Order-of-battle data
IDESC	Status/activity data on fixed facilities
ISECU	Security/defense text
ILOCA	Installation location & map references

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The fields and items contain either constant-length data or variable-length data which is also called "text." Each constant-length data field is preceded and followed by a dollar sign. You may edit the data between the dollar signs. Variable-length data is preceded by the word "TEXT." Dollar signs and the annotations for fields and items in each sector are only for your convenience and will not be transmitted to the Working File.

You will always edit the CURR copy of a Working File record. However, at any time you may see the unedited, original version of a page by pressing the DISPLAY ORIGINAL function switch. Original pages cannot be edited or modified in any way. After you press the DISPLAY ORIGINAL function switch, the first page of the original, unedited copy will appear on the screen. It will be identified by the abbreviation, ORIG, in the upper left corner. To redisplay the CURR copy of a given page, press the DISPLAY CURRENT function switch. When that page is redisplayed, it will contain all modifications (if any) that you have transmitted to the computer.

Two types of editing can be performed on the CURR copy of a Working File record. The first involves the editing of non-textual data appearing between dollar signs. The second type of editing involves more extensive corrections to textual material.

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DISPLAYING
PAGES

To display the next page of either the CURRENT or ORIGINAL copy press the NEXT PAGE function switch. To display the previous page press the PREV PAGE function switch. If you press the NEXT PAGE switch while the last page of a record is being displayed, the first page will be redisplayed. By the same token, if you press the PREV PAGE switch while the first page is being displayed, the last page will be redisplayed. If you press either of these switches to display a one-page record, you will receive an error message (See CHAPTER VIII.)

PRINTING CRT DISPLAYED
PAGES

A printout of a displayed page may be obtained by pressing the PRINT PAGE function switch while the page is on the screen. The information actually printed will be the page as it was sent to the CRT by the computer. Thus, if you have made any changes to the display which have not yet been transmitted to the computer these will not appear on the printed copy. To include these changes press the XMIT PAGE control switch, redisplay the page, and then press the PRINT PAGE function switch.

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EDITING NON-TEXTUAL
MATERIAL

Editing non-textual material, i.e., data appearing between dollar signs, is limited to replacing characters on a one-for-one basis. This is done by typing over each displayed character. Position the CRT cursor under the first character to be changed and type the correct character. The display will immediately reflect the changes you have made.

For example:

Before: TIPE

After striking the Y key: TYPE

However, this change is not recorded by the computer until you transmit the page to the computer by pressing the XMIT PAGE control switch. Usually, this is not done until all corrections on the page have been made. Until the time you transmit changes to the computer, you may change as many characters in the display as many times as you wish. If, during this time, you are unsatisfied with your modifications in the display you may start over again by pressing the RE-XMIT function switch. This will cause an identical copy of the display last received from the computer (without your latest corrections) to appear on the screen, and you may begin again.

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After you press the XMIT PAGE control switch to transmit the corrected data to the computer, the next page will be displayed.

If you attempt to make any corrections other than one-for-one character replacement when you transmit the page to the computer, you will get an error message and the original display (CHAPTER VIII, message 2).

If you press an invalid function switch, identified in Figure 7 by the shaded switches, the computer will generate an error message (message 7) at the top of the CRT screen. To recover from this condition, simply press the correct key or switch. All corrections made since the last valid transmission will be lost.

EDITING TEXTUAL MATERIAL

Editing textual material consists of inserting, deleting, replacing, and transposing data.* Of course one-for-one changes can also be made, as explained previously. Only the fields listed below contain textual material which can be altered by use of VEA.

* All changes described here are applicable only to existing data fields, i.e., no new fields or occurrences of repeating fields may be added as changes or corrections. See the IDF Maintenance Manual for provisions for making direct additions to the IDF.

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Field	Sector
DES:	IDESC
DFC:	ISECU
HIGH	IHIGH
OBJE	IOBJE
PHO:	IPHOT
STA:	ISTAT

These are all repeating fields (see APPENDIX B).

To edit textual material, you must first select and isolate the field you wish to edit. This is done by placing the cursor anywhere within the field and pressing the CURSOR ADD* control switch. You will then receive a display containing as much of that one field as possible. This is called an Isolated Field Display (see Figure 8). If the field exceeds one page, the remainder will be displayed on succeeding pages and each page will be identified by the words EXPAND PAGE followed by the page number. Each page will also contain the statement ENTER * FOR NEW PAGE ( ). At the bottom of each page, four lines will be reserved, or left blank, to provide space for insertions.

If the field selected is a repeating field (see APPENDIX B), only the occurrence indicated by the cursor will be isolated.

One text item may contain up to 51 81-character lines of data. If more than 51 lines of data are entered, the excess will not be transmitted to the computer and will therefore be lost.

The most efficient method of editing is to make all the changes needed on one page at a time and then transmit the changes to the computer by pressing the XMIT PAGE switch. However, you may transmit changes as frequently as you wish. After you have transmitted changes, the next page will be displayed. When the last page has been edited and transmitted, it will be displayed after the transmission. Press the PROCEED switch to return to the MRN data display page containing the field. You may proceed with one-for-one corrections, or isolate another field, or even isolate the same field again if you wish to make the further corrections.

* For "cursor address." The cursor is "addressing," that is, indicating, a field to the computer.

To move from page to page in the Isolated Field Mode, press the NEXT PAGE function switch. The PREV PAGE function switch is inoperable in this mode. You can only go back by repeated pressings of the NEXT PAGE switch, which, in circular fashion, brings you from the last page to the first.

If you have added text in the four blank lines at the bottom of the page and need more space, proceed as follows:

1 Press the TYPE control switch. The switch will light up.

2 Place the cursor under the space between the parentheses in this message at the top of the page:

ENTER * FOR NEW PAGE ( ).

3 Type an asterisk.

4 Press the XMIT PAGE control switch.

The changes made so far will be transmitted to the computer, and a new page will be displayed (Figure 9). The new page will have the usual header and the message, ENTER * FOR NEW PAGE ( ). The last two lines from the preceding page will be repeated on the new page. The rest of the page will be blank. Proceed with additions as before. To get additional blank pages simply repeat the procedure given above. Remember that one text item is limited to 51 lines. When you have completed and transmitted the last "new page," the next page of text will be displayed. If there are no more pages, the last page will be redisplayed.

On the other hand, if you have inserted text elsewhere in the body of the page and as a result the four blank lines at the bottom of the page are filled, follow these procedures:

1 Press XMIT PAGE. Do not type an asterisk between the parentheses in the message at the top of the page.

2 Press NEXT PAGE until you receive the same page on which you wish to continue inserting lines.

There will be four new blank lines at the bottom of this page; you may continue inserting text where you left off.

Text Deletions

To make deletions, first place the console in the delete submode by pressing the DELETE control switch.

To delete a character place the cursor under the character to be deleted and press the space bar. Note that all characters preceding the next null character* in the text move up to fill the void left by the deleted character.

For example:

Before: DELEETE

After striking the space bar: DELETE

Two of the three erase switches, ERASE TO END OF LINE and ERASE TO END OF PAGE, are available for deleting larger amounts of text with a single action. Do not use the ERASE PAGE control switch for deleting text.

* See APPENDIX C.

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ERASE TO END OF LINE. Pressing this control switch erases all characters on a given display starting with and including the character underlined by the cursor. The cursor ends up at the first character position on the next line.

ERASE TO END OF PAGE. Pressing this control switch erases all characters on a given CRT page starting with and including the character underlined by the cursor. At the end of this operation the cursor returns to the first character position at the top of the page. Be careful not to erase the NEW PAGE option message at the top of the page.

As you make insertions or deletions, the spacing between words must be preserved. If a word ends in the last position of one line, the first character in the next line must be a space. The same care must be taken when going from the last line on a page to the first line on the next page. Press the CONTROL CHARACTER control switch to verify the locations of space characters (space characters will appear on the screen -- null* characters will not). To turn off the control characters, press the switch again. The gap created on the screen by the two ERASE control switches is filled with null characters, which are not transmitted to the computer when you press XMIT PAGE.

Text Insertions

To insert one or more new characters, first place the console in the Insert submode by pressing the INSERT control switch. Then position the cursor under the character position where you wish to make an insertion and type the desired characters. Note that as each new character is entered, all of the existing characters that follow it up to the first null character on the display page are pushed one character position further along in the display line.

* See APPENDIX C.

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For example:

Before: INERT

After striking the S key: INSERT

The maximum line length (81 characters) remains the same, with the character at the end of each line reappearing at the beginning of the next line after the insertion has been made. The result is that the inserted data moves some of the existing data into the previously blank area at the bottom of the screen. Data can be entered until the blank lines at the bottom of the page are filled.

Text Substitutions

A text substitution is simply the changing of information. That is, old information is deleted and new information is inserted in the same location. Before you begin the change, you may want to obtain a copy of the page as it now exists. Press the PRINT PAGE function switch.

First make the deletions. Use the ERASE control switches whenever possible because this is faster and it creates a blank area for the insertion. Use the TYPE* submode to make an insertion in blank areas and use the INSERT submode whenever the typing would otherwise overwrite existing text.

* The TYPE submode is the one in which the console is placed automatically whenever a new page is transmitted -- whether in the Display of MRN Data mode or the Isolated Field Display mode. When in the Display of MRN Data mode, the only valid submode is TYPE. If you go to the INSERT or DELETE submode and make changes, your transmission of the page will yield an error message. When in the Isolated Field Mode, all three submodes are valid for the correction of textual items; go from one to the other by pressing the correct function switch for the new submode.

Text Relocations

Relocation refers to the transfer of some portion of text from one location to another. This is achieved by deletion of information at the old location and insertion of the information in the new location. You may perform either operation first.

Corrections Which Are Still in Error

If you discover an error in a correction prior to transmitting the correction, simply press the TYPE switch, place the cursor under the character to be recorrected and type the correct character.

If you discover an error in a correction after it has been transmitted, simply proceed as you would if it were an original correction. To change characters, press the TYPE control switch and type the correct characters over the existing ones. To eliminate characters, use the DELETE mode so that the subsequent text will be moved to the left. To add characters use the INSERT mode so that existing text will be moved to the right.

ERROR CONDITIONS

If you press an invalid function switch -- indicated in Figure 8 by the shaded keys -- during an Isolated Field Display, the computer will generate an error message (CHAPTER VIII, message 7) at the bottom of the screen. To correct your error simply press the valid switch. Note that any changes made since the last valid transmission will be lost.

If you try to enter the isolated field mode when the CRT cursor is located in a blank area or located anywhere within a fixed-length data field, i.e., one which does not contain textual information, the computer will return an error message (message 8) telling you that only individual character corrections can be made to this field from the existing MRN data display.

CHAPTER VI. CHANGING THE STATUS OF A WORKING FILE RECORD

ADVANCING THE STATUS OF A READOUT

If you have displayed all of the CRT pages for a given WF record at least once, you may advance the status of the record by pressing the ADVANCE STATUS function switch. This will cause the following action:

Present Function	Status Advancement Action
Verify	Change status to "waiting to be edited"
Edit	Change status to "waiting to be approved"
Verify-Edit	Change status to "waiting to be approved"
Approve	Change status to "approved;" enter this record in the IDF & update the Reports File as necessary

If you are performing the Approval function, the computer will indicate completion of the required actions by printing a message similar to the following at the teletypewriter nearest your CRT:

```
RUN IN PROCESS - [redacted]                    25X1
AUD* RUN COMPLETED - NO ERRORS
```

If you are approving the Working File readout on a new target and one or more fields in the IHEAD sector are erroneous when you press the ADVANCE STATUS switch, the readout will be entered in the IDF but the erroneous fields will not. This kind of message will then be printed by the teletypewriter associated with the CRT you are using:

```
RUN IN PROCESS - [redacted]                    25X1
UPDATE WAS DONE
NON-REQUIRED FIELD IN ERROR***MILI****
NON-REQUIRED FIELD IN ERROR***SRAD****
NON-REQUIRED FIELD IN ERROR***COMP****
AUD RUN COMPLETED
```

This message indicates that the values for the MILI, SRAD, and COMP fields in the IHEAD sector are invalid and were not entered in the IDF. Correct values for these fields must be entered in the IDF by the On-Line Update (OUD) Program. (See the User's Manual for the Maintenance of the Installations Data File.)

* AUD is the computer program that updates the IDF.

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REGRESSING THE STATUS
OF A READOUT

If you have displayed all of the CRT pages for a given WF entry and wish to return it to a previous processing status, press the REGRESS STATUS function switch. This will affect the entry as follows:

Present Function	Status Regression Action
Verify	Delete this record from the WF
Edit	Change VEA status of this record to "waiting to be verified" so it can be re-verified
Verify-Edit	Delete this record from the WF
Approve	Present display of regression options available to the approver

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After you press the REGRESS STATUS function switch, the computer will perform the indicated action, and, except when you are performing the Approval function, its next visible action will be to present the Display of Processing Options described previously. If you are performing the Approval function, the response will be the Display of Regression Options (Figure 10). This display presents three options as follows:

ENTERED - TO BE VERIFIED means to change the status of the record to "waiting to be verified"

VERIFIED - TO BE EDITED means to change the status of the record to "waiting to be edited"

DISAPPROVE - DELETE THE MRN FROM THE WORKING FILE means to delete the record so that it may be re-entered in a revised form

To make your choice, follow the instructions given in the display. The computer will perform your selected action. Its visible response will be to present the Display of Processing Options described previously.

If you press the REGRESS STATUS function switch before displaying all pages of a given readout, the page currently being displayed will remain on the screen, and you will receive an error message. Continue to display the remaining pages of the readout until you have displayed the last page. Then press the REGRESS STATUS switch.

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25X1

CHAPTER VII. TERMINATION DISPLAYS

If you request that the next Working File readout be displayed but there are no additional readouts to be processed for the mission, phase, and component code specified in your program call-up, you will receive one of the three displays shown in Figure 11. Shortly after receiving this display, the blinking letters EOT will appear at the bottom of the screen. These letters indicate that communications with the computer system have been terminated. Before leaving the CRT, press the ERASE PAGE control switch to clear the screen; then turn the intensity knob to the MIN position.

If at any other time you want to terminate communications with the computer, press the TERM function switch. EOT will be superimposed on whatever is displayed on the screen. Before leaving the console, press the ERASE PAGE control switch to clear the screen and turn the intensity knob to the MIN position.

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CHAPTER VIII. ERROR MESSAGES

If you have transmitted invalid data to the computer or pressed an invalid switch or key, you will receive an error message. All error messages, what they mean, and what to do about each are explained on the following pages.

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No.	Error Message	Comments on Cause of Error	What To Do
1	ERROR: YOUR CONSOLE IS NOT IN ACCESS LIST	You tried to initialize unauthorized CRT	Use authorized CRT
2	ERROR-RESPONSE nnn or XP INVALID TO BELOW DISPLAY. RESPOND AGAIN	You pressed invalid function switch or XMIT PAGE (XP) switch; nnn represents number of invalid switch	Press valid function or control switch, whichever is pertinent; corrections made since last transmission are lost & must be redone
3	ERROR: HAVE ENCOUNTERED A HARDWARE ERROR OR OTHER UNRECOVERABLE DIFFICULTY	---	Reinitialize CRT & call program again; if message reappears, contact Chief Information Systems Branch, AID
4	MRN IS IN PROCESS ELSEWHERE AND IS NOT AVAILABLE AT THIS TIME. CHOOSE ANOTHER	---	Press PROCEED function switch; choose new MRN & submit to computer by pressing XMIT PAGE
5	NO DATA IS IN THE WORKING FILE FOR THIS MRN. CHOOSE ANOTHER	Specified MRN was not entered in WF for specified mission and/or phase	Press PROCEED function switch; choose new MRN & submit to computer by pressing XMIT PAGE

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No.	Error Message	Comments on Cause of Error	What To Do
6	ERROR: PROCESSING LEVEL IS __; REQUESTED MRN STATUS IS __; CHOOSE ANOTHER	Readout is not ready for your function or has passed your function	Press PROCEED function switch; choose new MRN & submit to computer by pressing XMIT PAGE
7	ERROR: YOUR SELECTED FIELD DOES NOT CONTAIN TEXT. CORRECT ANY CHARACTERS	Isolated field display is limited to text fields	Correct only characters in field you selected
8	ERROR: CANNOT GO TO BURST MODE. FIELD HAS ONLY FIXED LENGTH DATA	Isolated field display is limited to text fields	Correct only characters in field you selected
9	ERROR: CORRECTIONS TO FIXED FIELDS HAVE ALTERED THE FORMAT. DO AGAIN	Length of fixed field cannot be changed	Correct only erroneous characters; do not change length of field
10	ERROR: EMPTY PAGE WAS SENT. PAGE MUST HAVE AT LEAST ONE LINE	Blank page transmitted to computer	Delete or erase unwanted text only
11	ERROR: NO MISSION CONTROL SECTOR EXISTED FOR THE MISSION YOU SPECIFIED	No data in WF for specified mission & phase	Specify correct mission & phase numbers

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APPENDIX A. LIST OF ILLUSTRATIONS

N O T I C E

In the displays shown in Figures 2-6 and Figure 10, the word, key, actually refers to a switch.

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25X1

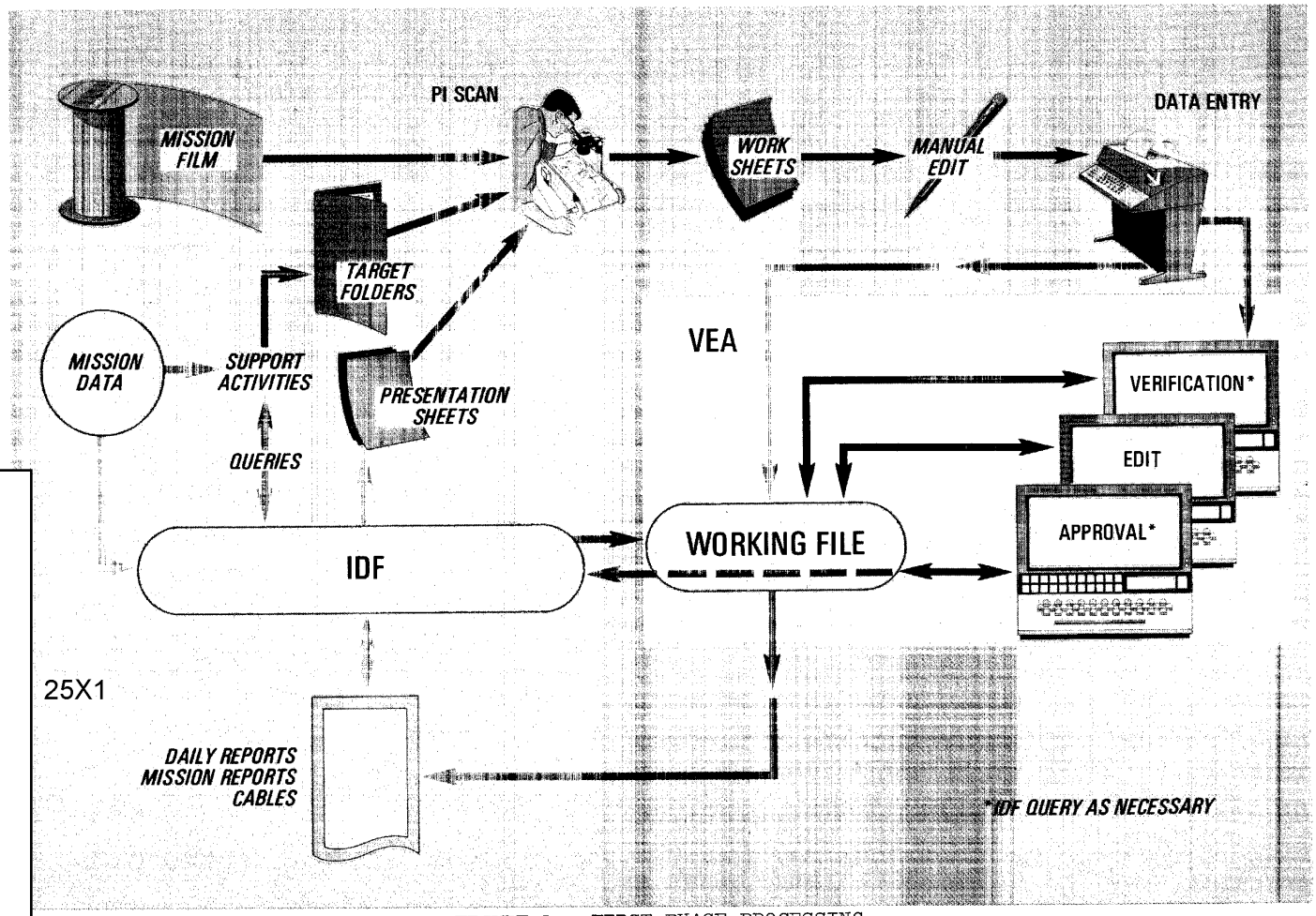

FIGURE 1. FIRST-PHASE PROCESSING.

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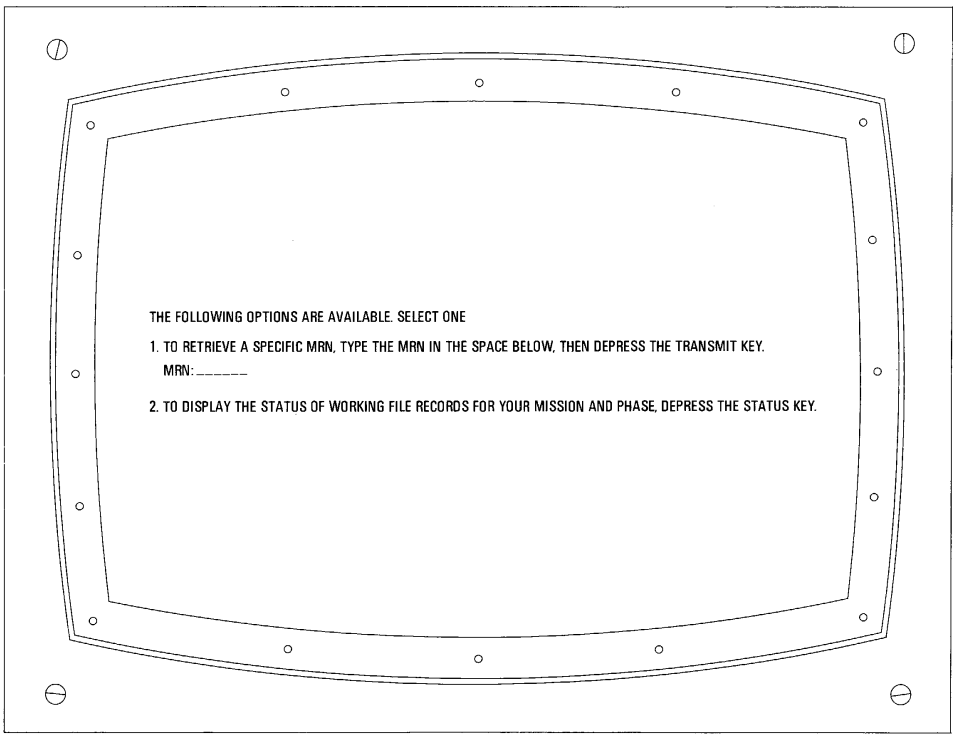

FIGURE 2. DISPLAY OF PROCESSING OPTIONS FOR VERIFY OR VERIFY-EDIT. Function switches that are invalid for this display are indicated by cross-hatching.

A

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25X1

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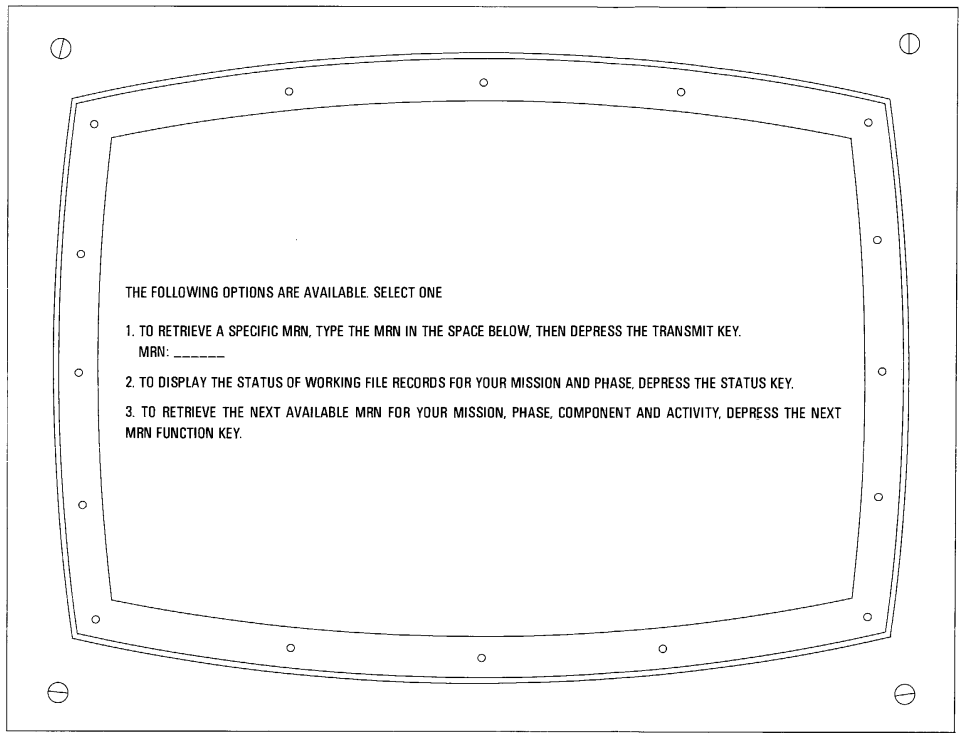
[redacted]

[redacted] 25X1



25X1

FIGURE 3. DISPLAY OF PROCESSING OPTIONS FOR EDIT OR APPROVAL. Function switches that are invalid for this display are indicated by cross-hatching.

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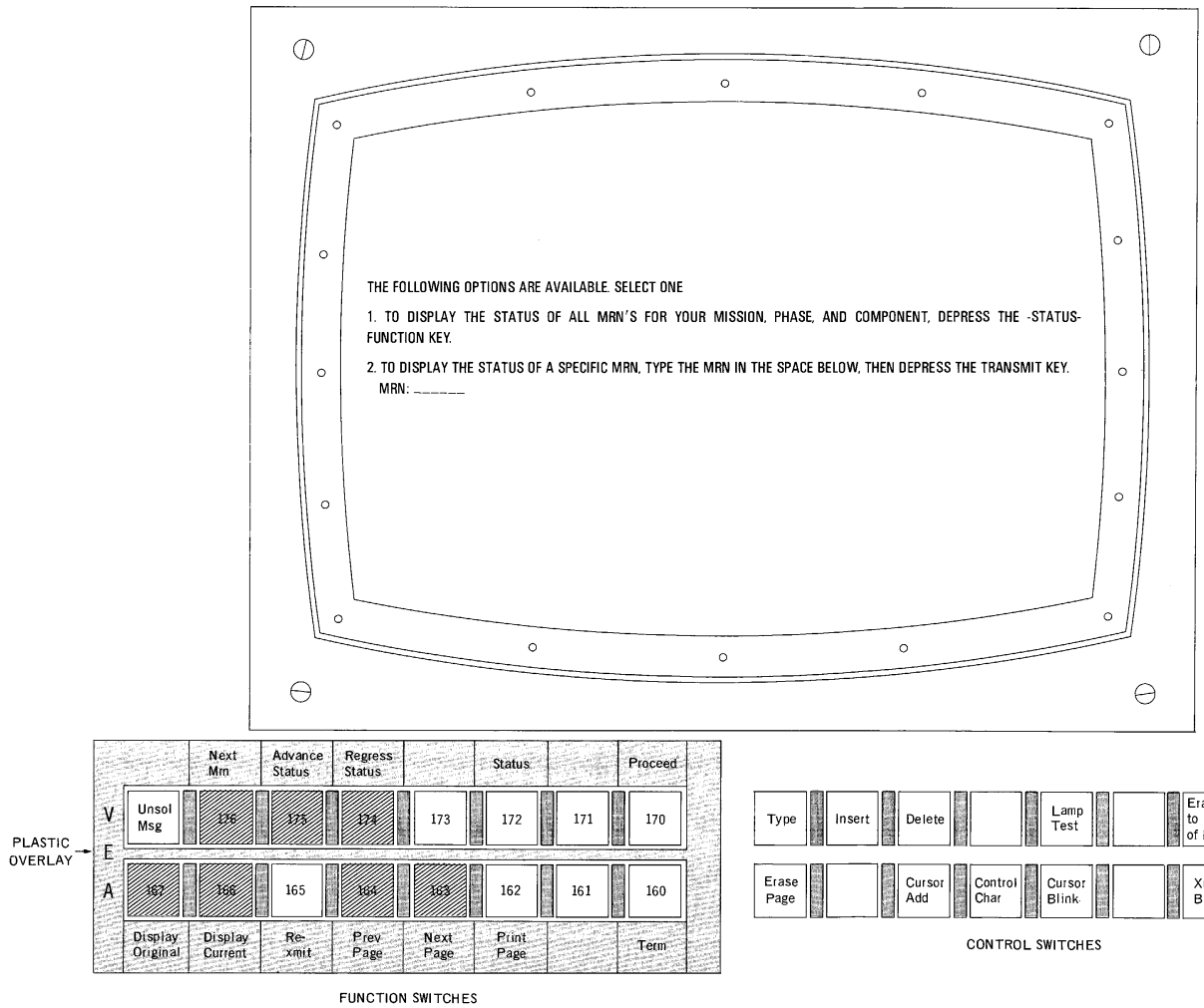
[redacted] 25X1



25X1

FIGURE 4. DISPLAY OF STATUS OPTIONS. Function switches that are invalid for this display are indicated by cross-hatching.

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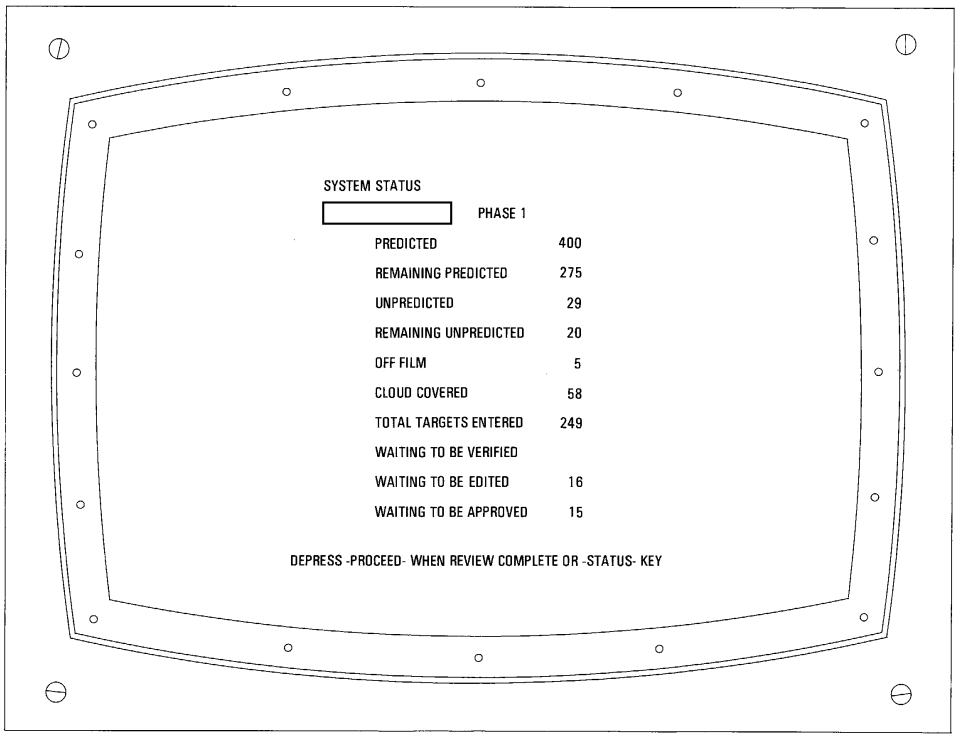
TOP SECRET 25X1
25X1



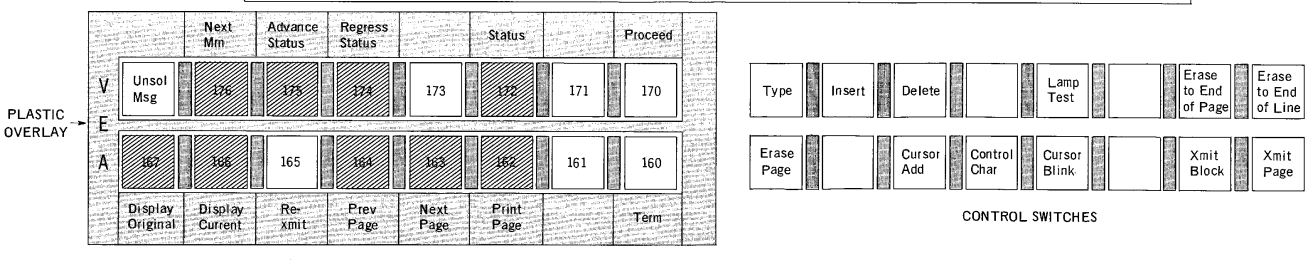


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FIGURE 5. AN EXAMPLE OF A MISSION STATUS DISPLAY. Function switches that are invalid for this display are indicated by cross-hatching.

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25X1

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TOP SECRET [redacted] 25X1

[redacted] 25X1

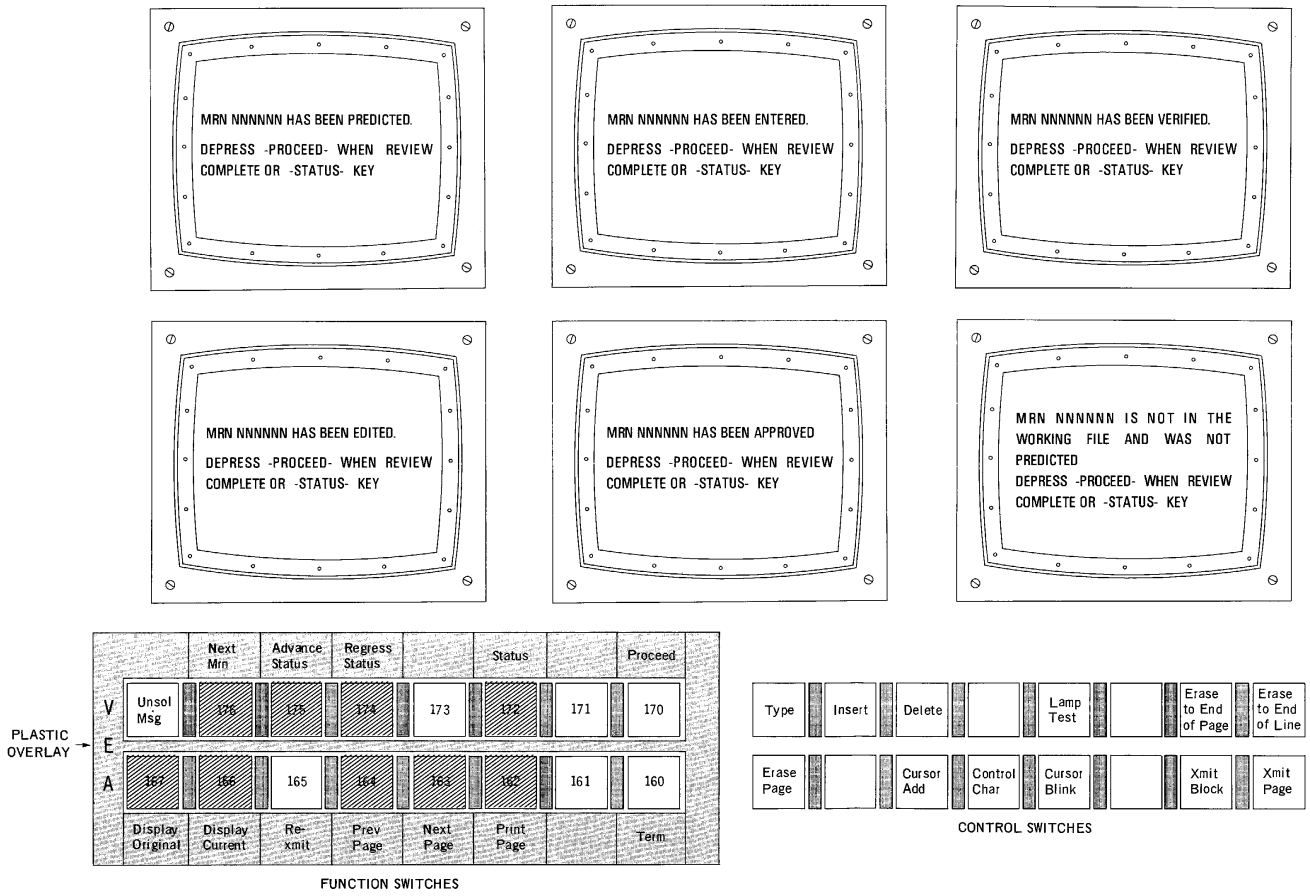

FIGURE 6. MRN STATUS DISPLAYS. In each display NNNNNN represents an MRN. Function switches that are invalid for this display are indicated by cross-hatching.

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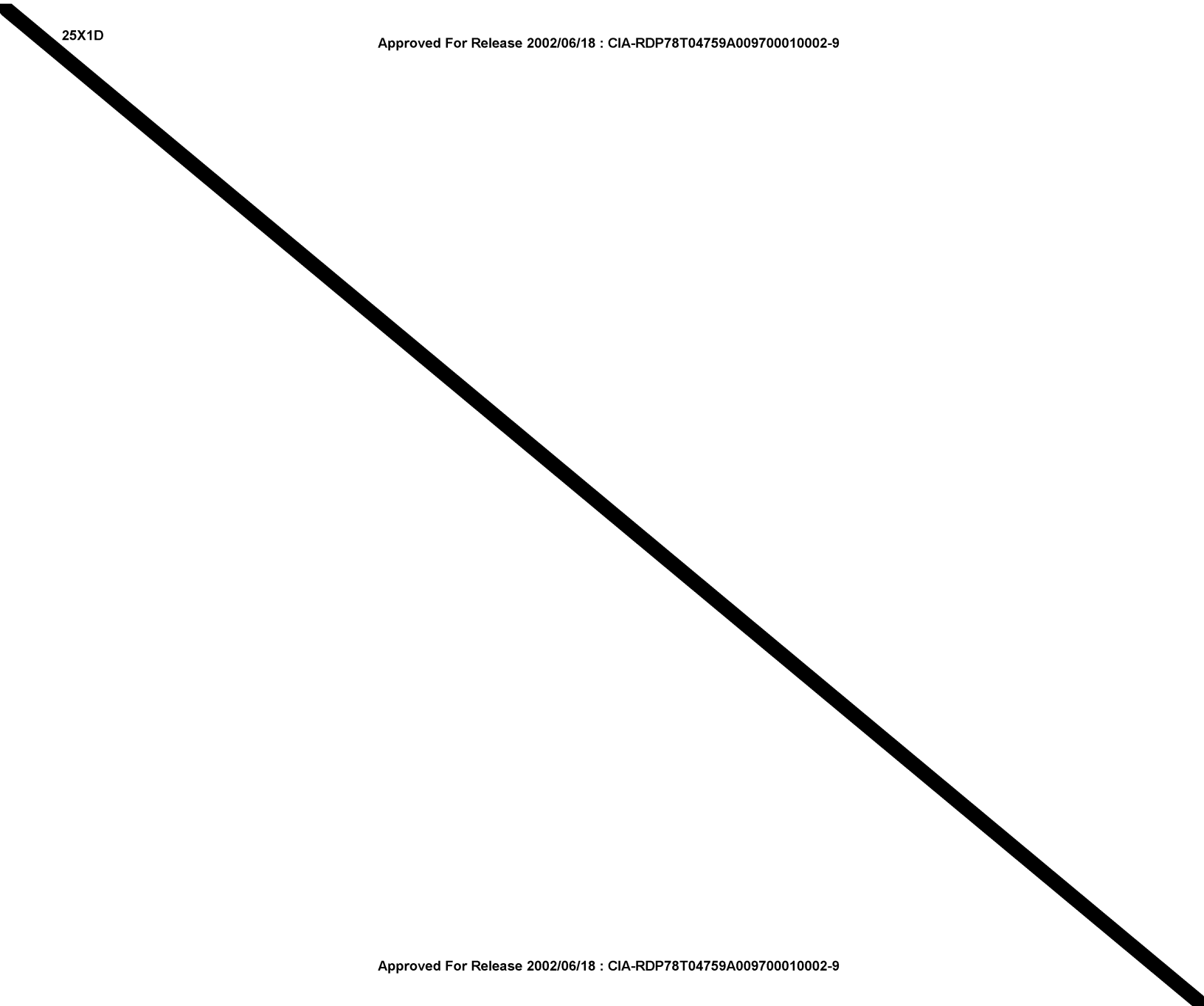

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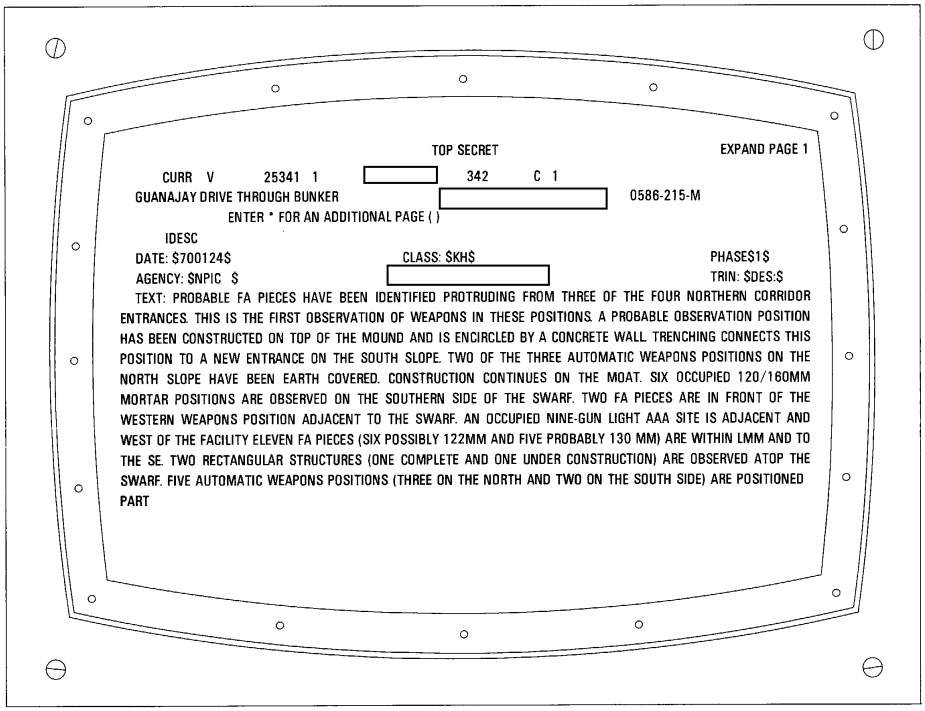

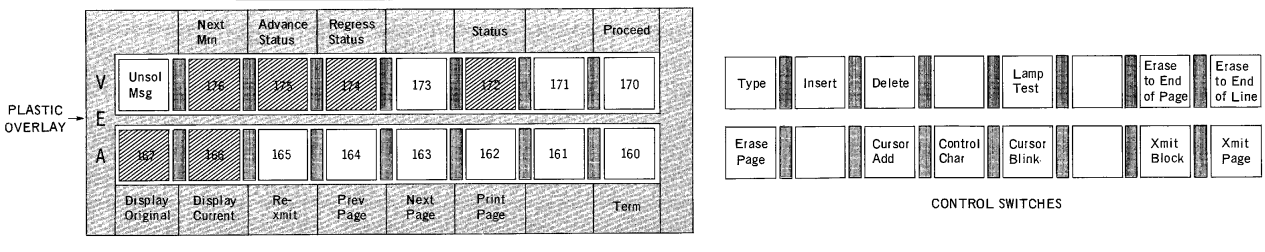

FIGURE 8. AN EXAMPLE OF AN ISOLATED FIELD DISPLAY. Function switches that are invalid for this display are indicated by cross-hatching.

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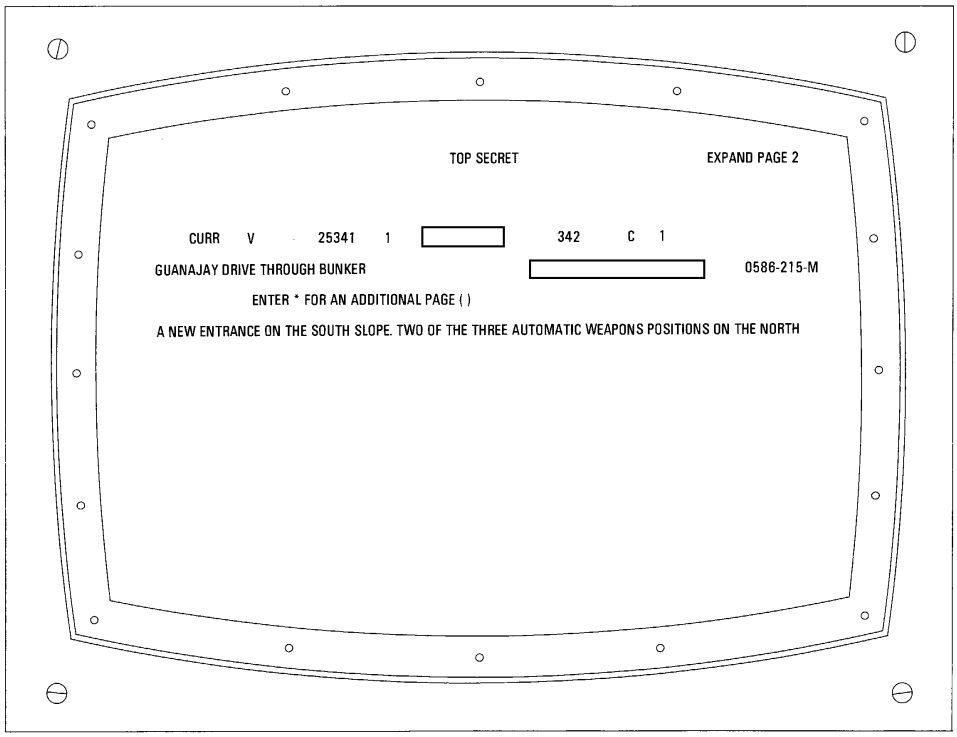
[redacted] 25X1



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25X1

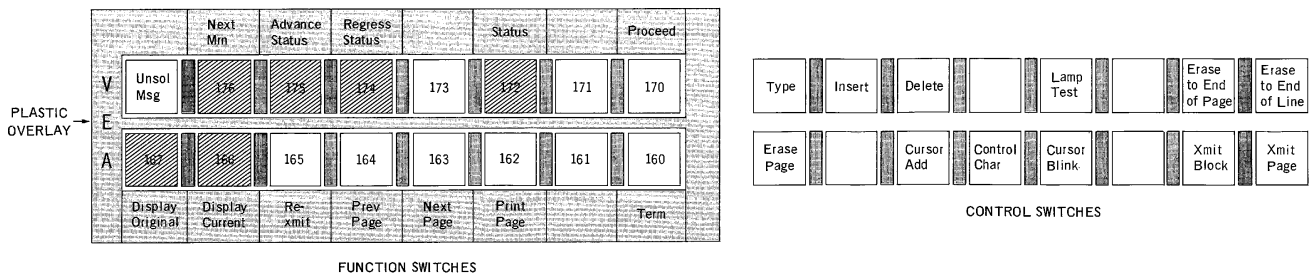

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FIGURE 9. AN EXAMPLE OF AN EXPANDED PAGE DISPLAY. Function switches that are invalid for this display are indicated by cross-hatching.

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25X1

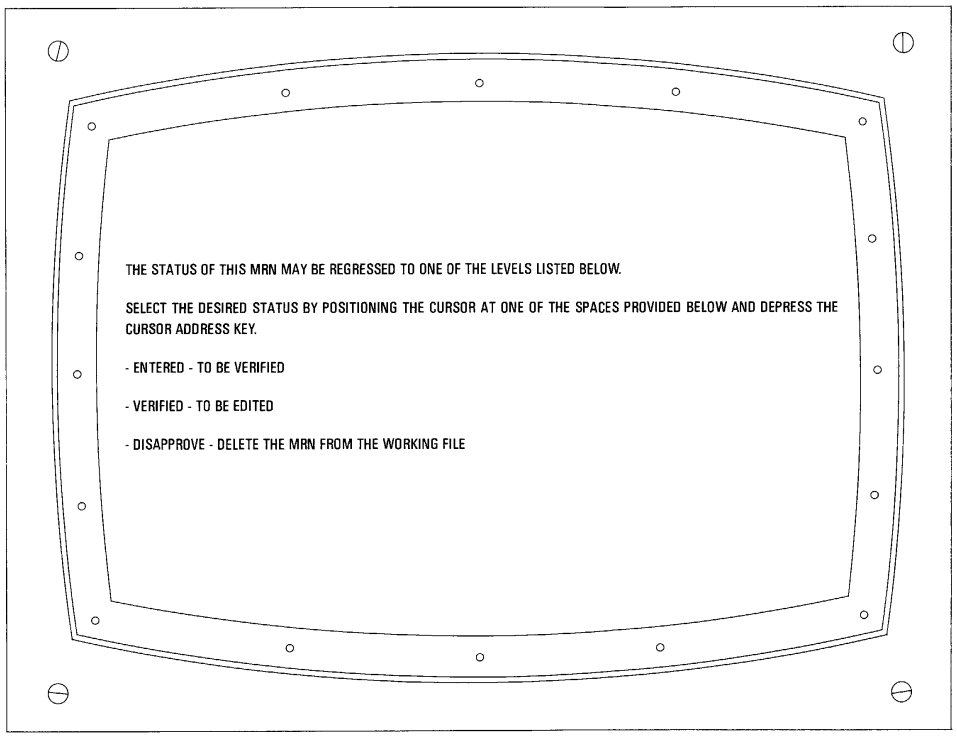

FIGURE 10. DISPLAY OF REGRESSION OPTIONS. Function switches that are invalid for this display are indicated by cross-hatching.

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[redacted] 25X1

[redacted] 25X1

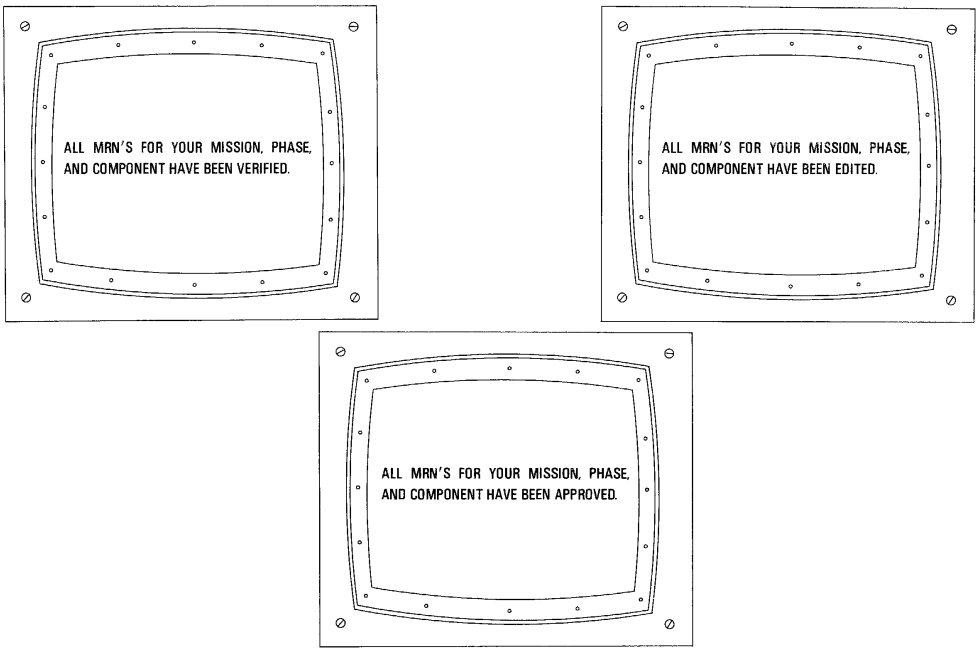

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FIGURE 11. TERMINATION DISPLAYS. Function switches that are invalid for this display are indicated by cross-hatching.

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APPENDIX B. GLOSSARY

CHARACTER	A single letter, number, or symbol; the smallest unit of information considered in this manual.
CRT	Cathode-ray tube; in this manual synonymous with a Sanders Tabular Display.
FIELD	A unit of information consisting of one or more items; every field has a name which is a mnemonic.
FILE	A set of records.
FORMAT	The arrangement of data in a file, record, sector, field, or item; also refers to the arrangement of data that is input or output.
HOME POSITION	Character position 1, line 1 on a CRT screen.
IDF	Installations Data File; a set of records on targets or installations; records contain data derived from imagery.

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ITEM	A unit of information consisting of one or more characters. An item has a name which is a mnemonic except when it is the only item in a field; in this case the item has no name.
MNEMONIC	A combination of letters or of letters and symbols used as the name of a sector, field, or item.
MRN	Machine reference number; assigned by the computer to each record in the IDF for identification purposes; will not be changed or transferred to another record.
ON LINE	The status of a piece of equipment when it is in communication with the UNIVAC 494 computer system in [redacted] 25X1
RECORD	A unit of information consisting of one or more sectors; in the IDF each record is identified by a machine reference number.
REPEATING FIELD	A field which is used as many times as needed (i.e., repeated) to record different values. All occurrences of the field have the same mnemonic. You must consult a description of a file to learn which fields are repeating fields.
SECTOR	A unit of information consisting of one or more fields; a sector has a name which is a mnemonic.
VALUE	The contents of a given record, sector, field, or item; synonymous with entry and data.

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WF	See WORKING FILE.
WORKING FILE	A temporary file containing data from first- and second-phase exploitation of aerial photography; after approval, the data is entered in the IDF.

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25X1

APPENDIX C. THE NULL CHARACTER

Positions on the screen which appear blank contain space characters or null characters. When the CONTROL CHAR switch is pressed, all characters on the screen except the null character can be seen; thus the remaining blank positions are filled with null characters. A space character (▯) is transmitted to the computer when the XMIT PAGE switch is pressed but a null character is never transmitted.

Whenever one character is inserted, all characters to the right of and below the insertion are moved over until a character has replaced the first null character encountered. When all null characters have been replaced, further insertions result in the loss of characters from the end of the last line.

In each Isolated Field Display there are four lines of null characters at the bottom of the page for textual expansion. Any positions between the end of the text and these four lines will also contain null characters. Deletions and the control switches, ERASE TO END OF LINE and ERASE TO END OF PAGE, will also create null characters.

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