

**OFFICE UPDATE PROCEDURES USING REGIONAL
OFFICE DATA ADMINISTRATION SYSTEM
NO. 2 ELECTRONIC SWITCHING SYSTEM**

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3. PROCEDURES FOR A PARTIAL OR FULL OFFICE UPDATE	2	(1) All questionnaires and input forms (No. 2 ESS 2000 series) are prepared and sent to the Western Electric computation center.
4. ERROR ANALYSIS	6	(2) A notification of the ODA run, giving established schedule of actions, is sent to TELCO by the Western Electric computation center.
A. Reseating Cards	7	(3) Preserve all service order recent changes and customer-dialed-in changes during the ODA interval. Request the system to automatically generate paper tapes of every customer-dialed-in change, by typing the following message at the maintenance center (MC) TTY:
B. Determining Bad Planes	7	A RC:PUN:1!
1. GENERAL		<i>Note:</i> This TTY message must be typed at the time of the last RC update before the data transmission is to take place and must remain in the No. 2 ESS until all office update procedures are completed.
1.01 This section describes the procedures for updating the No. 2 Electronic Switching System (ESS) program store by use of the office data administration (ODA) system of computer programs. The program store contains both office data and generic program. The term office data includes both translation and office parameter data. The generic program consists of program data that is common to every No. 2 ESS offices. The office data may be changed by an ODA update.		(4) Do a recent change update using the single card writer. (Refer to Section 232-004-301 or 232-004-302 for update procedures.)
1.02 This section is reissued to remove the general description and incorporate procedural changes since the last issue.		(5) Do a program store dump to the computation center via the data link to provide translation program store image as per schedule. (Refer to Section 232-008-301 for use of the data link facilities.)
1.03 For a more detailed description of the ODA system, refer to Section 232-124-101.		2.02 If the ODA update uses WECO manufacturing to write complete PMT card modules with

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the updated information, the modules will be shipped to the office. Hash sums and documentation will accompany the modules.

2.03 If the ODA update uses the data link facilities to return the updated information, refer to Section 232-008-301 for the procedure to write individual PMT cards via the data link.

2.04 Prior to the installation of updated office data cards in No. 2 ESS, the following procedures should be done.

(a) WECO line engineering will inspect the office data documentation and inform the local TELCO as to which of the following kinds of system initialization will be required.

- (1) sync switch only (no initialization)
- (2) emergency audit initialization
- (3) transient initialization
- (4) recent change initialization
- (5) stable initialization
- (6) stable and recent change initialization.

(b) Run control unit (CU) exercises (refer to TTY input message) on both CUs with low, normal, and high program store (PS) margin checks.

(c) Do a recent change (RC) update if a full ODA run is being performed. Allow for the possibility of returning to the old data if the new data does not work. If less than a full set of translation cards are to be inserted **do not** do a recent change update since the original data on the old cards must be compatible with the new office data cards.

Caution: Ensure that all customer dialed changes, as well as local telephone company initiated recent changes, are being kept on punched tape until all steps are completed. These tapes provide backup and are used as a part of the procedure.

3. PROCEDURES FOR A PARTIAL OR FULL OFFICE UPDATE

Note: In the following procedures refer to the Output Message Manual (OM-2H200) for explanation of output message variable fields.

3.01 Upon receipt of the office data magnetized cards, install the office data as follows.

- (a) Verify that the system is in the normal mode of operation by observing that the NORMAL lamp is lit.
- (b) Verify that all maintenance center functions are released and that the EMERGENCY ACTION PANEL is clear.
- (c) Verify that CUs are in sync. If not, put them in sync by typing the following TTY message:

M CU:RST!

One or more of the following TTY messages will be received:

MR CU DGN b 0 ATP 00

MI CU OPA a 0 ccccccc ddddd

MI CU SYN aaaaaa bbbbbb ccccc ddddd

Note: If time does not permit performing the CU exercises provided in Steps (d) and (e) on both processors, use the results of the previous midnight routines as the test of one processor and exercise the other processor just before the update. It is required that both CUs pass diagnostics just before the update.

- (d) Perform CU exercises by typing the following TTY message:

M CU:EX!

One or more of the following output messages will be received:

MR CU EX b nn c ddddd eeeee fffff
ggggg

MR CU DGN b 0 ATP

MI CU OPA a 0 ccccccc dddddd

MI CU SYN aaaaaa bbbbbb ccccc dddddd

MI CU SWO

- (e) Perform CU exercises on the other processor by typing the following TTY message:

M CU:EX!

One or more of the following output messages will be received:

MR CU EX b nn c dddddd eeeee fffff
ggggg

MR CU DGN b 0 ATP

MI CU OPA a 0 ccccccc dddddd

MI CU SYN aaaaaa bbbbbb ccccc dddddd

MI CU SWO

- (f) Perform peripheral unit exercises by typing the following TTY message:

M PU:EX!

One or more of the following output messages will be received:

MR AM DGN fg hi jsss xxxxxx yyyyyy zzzzzz

MR AM DGN fg hi ABT n

MR AM DGN fg hi EOT

MR AM DGN fg hi RBT

MR AM RMV fg hi

MR CU RMV i AM fg

MR PU EX END n

MR CU RMV i DS fg

MR DS DGN fg hi nnnn oooooo pppppp

MR CU RMV i LS fg

MR LS DGN fg hi nnnn oooooo pppppp

MR LS DGN fg hi ABT n

MR LS DGN fg hi REJ n

MR LS EX END

MR LS RMV fg hi

MR CU RMV i MS fg

MR MS DGN fg hi nnnn oooooo pppppp

MR MS DGN fg hi ABT n

MR MS DGN fg hi REJ n

MR MS EX END

MR MS RMV fg hi

MR CU RMV i NW fg

MR NW DGN fg hi nnnn oooooo pppppp

MR NW DGN fg hi ABT n

MR NW DGN fg hi REJ n

MR NW EX END

MR NW RMV fg hi

MR AM SI fg hi sss tuv

MR LK AOS ff tcps

MR LK BOS ff pcbg

MR LK COS ff mgo

MR LK END

MR LK JOS ff olg

MR LS MSK cxyrr

MR LS SI bbbbbb ccccc dddddd eeeee

MR NW SI bbbbbb ccccc

MR RA SIA 00bbbb 00cccc 00dddd 00eeee

MR RA SIB 00bbbb 00cccc 00dddd 00eeee

MR RA SIC 00bbbb 00cccc 00dddd 00eeee

MR RA SID 00bbbb 00cccc 00dddd 00eeee

MR RT SI 0bb000 ccccc dddddd

MR SI ACC cxzyde cxzyde cxzyde cxzyde

MR SI ADR cxzyde cxzyde cxzyde cxzyde

MR SI END

MR SN COL sczyde mmmmmm sczyde mmmmmm

MR TS SI bbbbbb ccccc

MR AD SI jk 1 bbbbbb ccccc dddddd eeeee

MR AL SI fg hi oooooo oooooo oooooo oooooo

MR CU RMV i RA fg

MR RA DGN fg - klm nopqrs

MR RA DGN fg - ABT n

MR RA EX END

MR CU RMV i RT fg

MR RT DGN fg h- nnnnnn oooooo pppppp

MR RT DGN fg h- ABT n

MR RT EX END

MR RT RMV fg h-

MR CU RMV i US fg

MR US DGN fg hi nnnn oooooo pppppp

MR US DGN fg hi ABT n

MR US DGN fg hi REJ n

MR US EX END

MR US RMV fg hi

MR CU RMV i AD fg

MR AD DGN fg - nnnn oooooo pppppp qqqqqq

MR AD DGN fg - ABT n

MR AD DGN fg - REJ n

MR AD EX END

MR AD RMV fg

MR CU RMV i AL fg

MR AL DGN fg hi nnnn oooooo

MR AL DGN fg hi ABT n

MR AL EX END

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- (g) Remove the off-line CU from service by typing the following TTY message:

M CU:RMV!

- (h) Perform hash sum verifications on all office data modules in the off-line CU by typing the following TTY message (for each office data PS module):

M CU:EX:11 1 c d 63!

c = Number of the program store (0-3)

d = Number of the program store module (0-3)

The following output message will be received:

MR CU EX

- (i) Obtain a TTY, trunk, service circuit, and peripheral units status report by typing the following TTY messages:

M TT:SI!

M TK:SI!

M SV:SI!

M PU:SI!

Note: Offices equipped with LO-1, Issue 4.6 and later or EF-1, Issue 3.4 and later of the generic program do not have to type M TK SI and M SV SI, either of the messages typed in will generate a printout of both trunk and service circuit status.

Caution: *No major piece of equipment may be out of service before performing the restart. Note any links, trunks, service circuits, junctors, and range extenders which are out of service for known reasons (waiting for parts, etc). These circuits must later be removed from service after initialization.*

- (j) Temporarily change the traffic work tables to avoid routine tests during the update process by typing in the following TTY messages:

T WT:LIT!

T WT:ATT!

T WT:AJT!

T WT:AST!

- (k) Lock on-line CU active by operating LOCK CU_ACTIVE key on MC panel.

Note: If (l) is to be performed between 0000 and 0100 hours, type the following TTY message immediately after 0000 hours:

M CU:NLW:13!

After the M CU EX a ABT message is received, type the following TTY message:

M CU:RNL:13!

If any part of (1) through (ab) will be performed between 0100 and 0200 hours, inhibit the PU exercises by typing the following message:

M CU:NLW:14!

- (l) Install the program store cards containing the changed office data and/or generic program information into one module in the off-line CU (all or part of the module may change).

Note: If the generic program is being changed along with the office data and the office data cards were magged on site, insert and verify office data first.

- (m) Perform hash sum verifications on the **changed** module in the off-line CU by typing the following TTY message:

M CU:EX:11 b c d 63!

b = The number of the program store margin the test is to be run under (2 and 3).

c = Number of the program store (0-3)

d = Number of the program store module (0-3).

Note: Perform hash sum verification at program store margins 2 and 3.

(n) Verify the correct results by comparing the hash sums in PG-2H001 or PG-2H002 for the generic program or the mag listing for office data with the following TTY output message:

MR CU EX a 11 b c d ee ffff

a = Off-line CU (0 or 1)

b = Number of the program store margin the test was run under (2 and 3).

c = Number of program store (0-3)

d = Number of program store module (0-3)

ee = Number of program store plane (0-63)

ffff = Hash sum number in decimal up to and including the plane specified in the input message.

Caution: Do not proceed further until all hash sums agree. If hash sums do not agree, proceed with error and analysis described in ERROR ANALYSIS of this section.

(o) Repeat Steps (l), (m) and (n) in the off-line CU for each PS module of generic program and office data which has changes.

(p) If the new office data puts additional call store (CS) modules into use for the first time (i.e., involves a CS growth), then initialize the CS to zero by typing the following message:

M CU:EX:2 1 cd 0!

The following output message will be received:

MR CU EX

(q) Determine the degree of initialization needed to restore the system to a normal working mode. Refer to the generic change notice and 2.04(a) for the degree of initialization required for a generic or office data change. It will be necessary to use the more severe degree initialization of the two degrees required.

(r) Initialize the system in accordance with the applicable Tables A, B, C, D, E, or F. Make sure that **all** steps are performed.

(s) After initialization is over, turn off the SERVICE LOSS lamp by typing the following TTY message:

M SY:RSL!

Note: If the system should initialize or otherwise run improperly, TELCO must determine whether to stay with the new PS cards or to switch back to the old PS cards. It may be desirable to stay with the new cards to determine the reason for the trouble or to allow the problem to work itself out. If it is necessary to switch back to the former CU, use at least as high an initialization as was used in the previous switch.

(t) If Tables C, D, E or F were used, remove the circuits and equipment from service as determined from Step (i).

(u) At the MC TTY, type the following TTY messages:

M TT:RMV:4! (only if applicable)

T WT:MQ:177 7777 7777 17!

T WT:LIT!

T WT:ATT!

T WT:AJT!

T WT:AST!

(v) If Tables E or F were used, restore AMA billing and observing information (from i) by typing the following TTY message:

M AM:OBS:fg hi n!

(w) If Tables D or F were used, reinsert all call forwarding lists by reading in the paper tape or by typing the following TTY message:

A CF:ENT/

nnx abcd p npa nnx abcd/

9999!

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Note: If paper tape is used, TTY parity must be turned off by typing the following message:

M TT:PAI:a 0!

(x) If Tables D or F were used, insert all recent change tapes as well as any tapes which may have been initiated by the customer. Refer to Section 232-003-301 for insertion of paper tape procedure. Tapes should be inserted in original order to make sure that any RC updates and the latest customer dial changes are current with the working CU. Order should be maintained between daily telephone company and customer tapes. If any customer generated tapes are used, turn off TTY parity by typing the following message: M TT:PAI a 0!

Note: If the updated on-line CU fails to process calls with the new office data cards and recent change tapes just inserted, switch back to the former on-line CU containing working data. When switching back to the former CU, use at least as high an initialization as was used in the previous switch. For example, if the new office data includes any CS growth, at least a TRANSIENT clear must be used. If the new office data included equipment growth, at least a STABLE clear must be used.

(y) If TTY parity was turned off in (w) or (x), restore parity by typing the following message:

M TT:PAI:a 1!

(z) If Tables D or F were used, restore lines on trace by typing the following TTY message:

A CT:ENT:aaa bbb cccc!

(aa) Perform system evaluation in accordance with Section 232-125-501.

Note: Allow at least 30 minutes between (v) and (ab) to ensure proper functioning of new data and/or program.

(ab) Repeat Steps (l), (m), (n) and (o) in the new off-line CU.

(ac) If PU exercises were previously inhibited, allow them by typing the following message:

M CU:RNL:14!

(ad) Remove the active CU from lock-up by releasing the LOCK CU—ACTIVE key on the MC.

(ae) Put the CUs in sync by typing the following TTY message:

M CU:RST!

(af) Switch to the other CU by typing:

M CU:SWO:a!

(ag) Perform CU exercises by typing the following TTY message:

M CU:EX!

(ah) Perform PU exercises by typing the following TTY message:

M PU:EX!

(ai) Restore the call store copy of the traffic work table from the program store copy by typing the following TTY message:

T WT:RST!

4. ERROR ANALYSIS

4.01 Although the shipped PS memory cards are magnetized and verified, this does not assure that the correct data was magnetized onto the cards. The following error analysis is based on this assumption. As a last resort, if the solution to an error is not readily available, do not rule out the possibility of poorly magnetized cards or a possible hardware problem.

Warning: *Never attempt to switch the off-line CU on-line if it is failing hash sums. Do error analysis and restore the system to normal as soon as possible.*

4.02 If a hash sum error occurs in a module of an ODA run, personnel should take one or more of the following actions.

A. Reseating Cards

4.03 Inspect the program store module and/or a suspected bad plane indicated by hash sum. Reseat (align) the bad cards in the plane and do a hash sum by typing in the following TTY message:

M CU:EX:11 b c d 63!

If the hash sums continue to fail, remove that set of office data and try the other set provided by WECO manufacturing. If failure of hash sum occurs in both sets of new office data, restore the original program store memory cards in the off-line CU.

Note: Failure in shipped office data hash sum prevents further updating. Return new cards for correction.

Match the old modules in both CUs with the TTY message:

M CU:EX:12 b c d!

B. Determining Bad Planes

4.04 Personnel can determine at which plane the hash sums begin to disagree by typing in this TTY message:

M CU:EX:11 b c d!

Where d = some plane in the middle of the module (example: plane 32). If the hash sum still does not agree, decrease the plane number (the d field in TTY input message) until the hash sums agree. The next higher plane will have some error on it. If the hash sum now agrees, increase the plane number until a hash sum disagrees. The last plane typed in the TTY is in error.

Note: The bad plane consists of two cards; one or both may be in error.

4.05 If the hash sum errors cannot be eliminated, contact the organization (computation center, factory, etc) which supplied the office data cards and associated hash sum documentation to help resolve the problem.

TABLE A

INITIALIZATION PROCEDURES FOR UPDATE AND SYNC SWITCH

STEP	PROCEDURE	SYSTEM RESPONSE
1	Remove the active CU from lock-up by releasing the SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	The following TTY output message will be printed: MI CU UPD a b c d
2	Switch CUs by typing the following TTY message: M CU:UPS!	The following TTY output message will be printed: MI CU UPS a b c d
3	<i>Immediately</i> , lock on-line CU active by operating SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	

TABLE B

INITIALIZATION PROCEDURES FOR EMERGENCY AUDIT INITIALIZATION

STEP	PROCEDURE	SYSTEM RESPONSE
1	At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE, STABLE, and REC CHNG.	
2	Remove the active CU from lock-up by releasing the SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	The following TTY output message will be printed: MI CU UPD a b c d
3	At EMERGENCY ACTION panel — Depress ENABLE key.	The following TTY output message will be printed: MA SY EAP 00002
4	At MC TTY — Type the following input message: M CU:UPM!	The following TTY output messages will be printed: MA SY MRF MI SY EAP MI SY CLR EAU
5	<i>Immediately</i> , lock on-line CU active by operating SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	
6	At EMERGENCY ACTION panel — Release the ENABLE key.	

TABLE C

INITIALIZATION PROCEDURES FOR SWITCH AND TRANSIENT CLEAR

STEP	PROCEDURE	SYSTEM RESPONSE
1	If the office is equipped with LAMA — Ensure that the AMA record block currently being recorded is properly ended by typing the following TTY message (type in for each AMA frame): M AM:SWO:fg h—! fg = two-digit AMA frame number (00—01). h = AMA transport number.	The following output message will be received: MR AM SWO
2	If AMA transport 0 for each frame is <i>not</i> on-line, type the following input message (for each AMA frame): M AM:SWO:fg 1—!	The following TTY message will be received: MR AM SWO
3	At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE, STABLE, and REC CHNG.	
4	Remove the active CU from lock-up by releasing the SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	The following TTY output message will be printed: MI CU UPD a b c d
5	At EMERGENCY ACTION panel — Depress ENABLE key.	The following TTY output message will be printed: MA SY EAP 00002
6	AT MC TTY — Type the following input message followed immediately by steps 7 and 8: M CU:UPM!	The following TTY output messages will be printed: MA SY MRF MI SY EAP MI SY CLR EAU
7	<i>Immediately</i> , lock on-line CU active by operating SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	
8	At EMERGENCY ACTION panel — Depress the READY and GO keys.	The following TTY output messages will be printed: MA SY MRF 0 a b c d MA SY EAP 0000aa MI SY CLR TRN MA AU RLF ATP
9	At EMERGENCY ACTION panel — Release the ENABLE key.	

TABLE D

INITIALIZATION PROCEDURES FOR SWITCH AND RECENT CHANGE INITIALIZATION

STEP	PROCEDURE	SYSTEM RESPONSE
1	Dump and <i>save</i> the line trace list by typing in A CT:LST!	Line trace list will be printed out.
2	Dump and punch the call forwarding list by typing in A CF:PUN! <i>Note:</i> If it is <i>not</i> desirable to punch a paper tape, type in A CF:PR!	Call forwarding list will be printed out, and punched on paper tape. Call forwarding list will be printed out only.
3	If the office is equipped with LAMA — Ensure that the AMA record block currently being recorded is properly ended by typing the following TTY message (type in for each AMA frame): M AM:SWO:fg h—! fg = two-digit AMA frame number (00—01). h = AMA transport number (0—1).	The following output message will be received: MR AM SWO
4	If AMA transport 0 for each frame is <i>not</i> on-line, type the following input message (for each AMA frame): M AM:SWO:fg 1—!	The following output message will be received: MR AM SWO
5	At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE, STABLE, and REC CHNG.	
6	Remove the active CU from lock-up by releasing the SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	The following TTY message will be printed: MI CU UPD a b c d
7	At EMERGENCY ACTION panel — Depress ENABLE key.	The following TTY message will be printed: MA SY EAP 00002
8	At EMERGENCY ACTION panel — Operate REC CHNG key.	
9	At MC TTY — Type the following message: M CU:UPM!	The following TTY output messages will be printed: MA SY MRF MI AM INL MI SY EAP MI SY CLR RC MI AM DGN fg hi ATP MA AU RLF ATP The recent change areas will be cleared for the new office data layout, and all transient calls will be cleared from the system.

TABLE D (Cont)

INITIALIZATION PROCEDURES FOR SWITCH AND RECENT CHANGE INITIALIZATION

STEP	PROCEDURE	SYSTEM RESPONSE
10	<i>Immediately</i> , lock on-line CU active by operating SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	
11	As soon as the MRF display on the MC DISPLAY BUFFER extinguishes — At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE, AND REC CHNG.	

TABLE E

INITIALIZATION PROCEDURES FOR SWITCH AND STABLE INITIALIZATION

Caution: Operation of the STABLE key on the EA panel destroys all transient and stable calls in the office at the time of the initialization. The system time and date are initialized to all zeros by a stable clear initialization and must be restored as soon as possible after a stable initialization.

STEP	PROCEDURE	SYSTEM RESPONSE
1	Check for emergency calls in progress using local procedures.	
2	Check for the number of stable calls in progress by typing in: M AU:TMR:1!	
3	If the office is equipped with LAMA — Ensure that the AMA record block currently being recorded is properly ended by typing the following TTY message (type in for each AMA frame): M AM:SWO:fg h—! fg = two-digit AMA frame number (00—01). h = AMA transport number.	The following TTY output message will be printed: MR AM SWO
4	Ensure that AMA transport 0 for each frame is on-line, if not, type the following TTY message (for each AMA frame): M AM:SWO:fg 1—!	The following TTY message will be printed: MR AM SWO
5	At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE, STABLE, and REC CHNG.	
6	Remove the active CU from lock-up by releasing the SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	The following TTY message will be printed: MI CU UPD a b c d
7	At EMERGENCY ACTION panel — Depress ENABLE key.	The following message will be printed: MA SY EAP 00002
8	At EMERGENCY ACTION panel — Operate STABLE key.	
9	At MC TTY — Type the following input message: M CU:UPM!	The following TTY output messages will be printed: MA SY MRF MI AM INL MI SY EAP

TABLE E (Cont)

INITIALIZATION PROCEDURES FOR SWITCH AND STABLE INITIALIZATION

STEP	PROCEDURE	SYSTEM RESPONSE
9 (cont)		MI SY CLR STB MI AM DGN fg hi ATP MI AU RLF ATP
10	<i>Immediately</i> , lock on-line CU active by operating SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	
11	As soon as the MRF display on the DISPLAY BUFFER disappears (approximately 5 to 15 seconds) — At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE and STABLE.	
12	Insert the date into the system by typing the following message: M TT:DAT:mo da yr b!	
13	Insert the time into the system by typing the following message: M TT:TIM:hr mn sc!	

TABLE F

**INITIALIZATION PROCEDURES FOR SWITCH AND RECENT CHANGE
AND STABLE INITIALIZATION**

Caution: Operation of the STABLE key on the EA panel destroys all transient and stable calls in the office at the time of initialization. The system time and date are initialized to all zeros by a stable clear initialization and must be restored as soon as possible after a stable clear initialization.

STEP	PROCEDURE	SYSTEM RESPONSE
1	Dump and save the line trace list by typing in A CT:LST!	Line trace list will be printed out.
2	Dump and punch the call forwarding list by typing in A CF:PUN!	Call forwarding list will be printed out and punched on paper tape.
	<i>Note:</i> If it is not desirable to punch a paper tape, type in A CF:PR!	Call forwarding list will be printed out only.
3	Check for emergency calls in progress using local procedures.	
4	Check for the number of stable calls in progress by typing the following message: M AU:TMR:1!	
5	If the office is equipped with LAMA — Ensure that the AMA record block currently being recorded is properly ended by typing the following TTY message (type in for each AMA frame): M AM:SWO:fg h—! fg = two-digit AMA frame number (00—01). h = AMA transport number (0—1).	The following output message will be received: MR AM SWO
6	If AMA transport 0 for each frame is not on-line, type the following input message (for each AMA frame): M AM:SWO:fg 1—!	The following TTY message will be received: MR AM SWO
	<i>Note:</i> It is desirable, but not necessary, to change tape on AMA 0 if a generic retrofit is being done. This guarantees that the accounting center will not see two AMA formats on the same tape.	
7	At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE, STABLE, and REC CHNG.	
8	Remove the active CU from lock-up by releasing the SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	The following output message will be received: MI CU UPD a b c d

TABLE F (Cont)

**INITIALIZATION PROCEDURES FOR SWITCH AND RECENT CHANGE
AND STABLE INITIALIZATION**

STEP	PROCEDURE	SYSTEM RESPONSE
9	At EMERGENCY ACTION panel — Depress ENABLE key.	The following TTY message will be printed: MA SY EAP 00002
10	At EMERGENCY ACTION panel — Operate REC CHNG and STABLE keys.	
11	At MC TTY — Type the following input message: M CU:UPM!	The following TTY output messages will be printed: MA SY MRF MI AM INL MI SY EAP MI SY CLR STB RC MI AU RLF ATP MI AM DGN fg hi ATP The recent change areas will be cleared for the new office data layout, and all transient calls will be cleared from the system.
12	<i>Immediately</i> , lock on-line CU active by operating SYSTEM STATUS—LOCK CU_ACTIVE key on the MC panel.	
13	As soon as the MRF display on the MC DISPLAY BUFFER extinguishes — At EMERGENCY ACTION panel — Ensure that the following keys are released: ENABLE, STABLE, and REC CHNG.	
14	Insert the date into the system by typing the following message: M TT:DAT:mo da yr b!	
15	Insert the time into the system by typing the following message: M TT:TIM:hr mn sc!	