

SWITCHING SYSTEM MANAGEMENT
NO. 2 ELECTRONIC SWITCHING SYSTEM
TRANSLATION OFFICE RECORD GENERATION

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1. GENERAL

1.01 The office data administration (ODA) system which provides the facility for generating central office data table and related computer-generated documentation of the data tables is made up of five subsystems. The subsystem discussed in this section is the translation office record generation (TORG) subsystem. An understanding of the system is necessary in order that it may be properly utilized for record generation.

1.02 When this section is reissued, this paragraph will contain the reason for reissue.

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

PURPOSE OF TORG

1.04 The purpose of the TORG subsystem is to generate a computer-printed output designed for use by the telephone company as an accurate office administration record and replaces the manually prepared documents. This computer-printed output is called the translation administration record (TAR).

1.05 Other switching systems use several types of input forms to Western Electric (WE). These forms are utilized not only as system input but may be employed as administrative reference documents. These documents are, for the most part, manually prepared and updated. Most major changes must be related to WE for drawing updates. Generally, a large amount of the posted information is subject to error due to the very nature of copying. In many cases the administrative records, contents and the associated switching machine assignments contain differences. These differences can be attributed to assigning errors, posting errors, and connection errors. A considerable amount of management and nonmanagement time is lost in rectifying these discrepancies.

ADVANTAGES

1.06 The ODA inputs to the TORG subsystem the translations data directly from the

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program stores rather than from inputs forms. This procedure offers the following advantages:

- (a) Because the records are generated from the actual encoded data in the program store it can be assumed that they are more reliable.
- (b) The processing computer can prepare the data in more inclusive printouts. For example, all information pertaining to a directory number which appears on several input forms can be consolidated on a single output record.
- (c) The design of the input forms can be made to contain less redundant data, because the redundancy required for record keeping in the prior systems is not required in this design.
- (d) The TORG subsystem can be run either as a document producing system (running the translations data tables update associated with initial translations or growth provisions), or it can be run to produce office records directly from the program store image of an existing No. 2 ESS office.
- (e) As the reference records for an office become aged due to excessive use, the records must be copied. Copying involves extensive time and effort and is subject to a large amount of human error. Record security of an electromechanical office could be a problem. If the records are destroyed or lost, the reconstruction effort may approach monumental proportions. However, in the case of frequent No. 2 ESS TORG runs, a new set of computer generated records are available as soon as a "data dump" and processing can occur. Generally, the most time-consuming portion of the TORG process is the time necessary to transport the completed records from the WE region to the appointed location.

2. TORG SCHEDULE

2.01 One definite advantage of the TORG subsystem is the ability of the user to request full or partial sets of the output records. A minimal amount of coordinating the office activity is required to provide the most up-to-date records. The office records will reflect the program store contents at the time of a data link process. The available

records are grouped into the eight categories listed below:

- line
- trunk
- scanner
- junctor
- routing and charging
- traffic measurement
- miscellaneous
- centrex

2.02 The TARs are printed on high-quality, two-part paper. The second part is erasable and is maintained as the official office record. The other part should be forwarded to the central office.

2.03 The output record system may be run any time following initial or updated table generation. It should be run whenever a new set of office records (full or partial) is required. The information contained in the program store is transmitted from the central office to the WE region via the administrative data link (ADL) following a formal request using the Data Link Request Form (E-8103). The interval of run is usually quite short.

2.04 The ADL is a system provided in each No. 2 ESS that is designed to transmit data over a voice-grade, dialed-up connection between the central office and the WE region. The concept of the No. 2 ESS translation structure and recent change procedures was based on the use of the ADL as part of the overall records and updates sequences. It eliminates problems that may exist in shipping program store cards or magnetic tapes between locations. Using the data link, the No. 2 ESS office may send program store or call store contents to the WE region or product engineering control center (PECC). In addition, the region or PECC can transmit data to the single-card writer, thus eliminating the shipment of program store cards.

2.05 PS memory can be transmitted to the receiving organization at the rate of one data block

or a group of data blocks per remote acknowledgment. The former transmission technique is called single block transmission, and the latter is called chained block transmission. The type of transmission to be used is dependent on what the remote station can receive and is chosen by TTY request. For further information refer to No. 2 ESS Administrative Data Link Description, BSP Section 232-008-101 or the Translation Guide 2H (TG-2H) Division 3, Section 7.

3. TORG PROCEDURES

3.01 The need for a TORG run via the ADL, should be a prime responsibility of the network administrator. A time should be coordinated with the network maintenance personnel in case the No. 2 ESS is unattended. There may be various reasons for a TORG request. If service order activity is heavy, it is conceivable that a dump may be required monthly as in the busy season. In the off-busy season, perhaps once a quarter would be sufficient. If a cable throw has resulted in several terminal changes, a data dump could be requested by the network administrator from information supplied by the central office personnel or the service order bureau.

3.02 Good central office administration requires proper terminal equipment assignments for trunk and customer use. After an office has been initially assigned, the preferential network assignment list (PNAL) *must* be discarded and the office must be administered by results of the weekly (W) printout of B-link usage.

Note: It may be preferable to move a trunk or service circuit (via recent change procedures) rather than change the location of several customer lines. As in other systems, judicious assignment procedures should be followed. The major exception is that No. 2 ESS requires combined line and trunk administration since both may be located on consecutive terminals. When discussing B-link access and usage across the network, trunks and service circuits must be considered as a class of service in addition to the regular class of service balance concept.

3.03 The initial step in the TORG procedure is to request and obtain a complete set of office records if it has been more than six months since the last office update. This request should ensure that all lines, routing, and trunking changes

will be brought up to date. If it has been less than six months, a decision should be made based on routing and trunking changes. If changes have been minimal, then only the line records and other miscellaneous records need to be requested. One of the keys in keeping the cost of a TORG run to a minimum is to request *only* those records that are deemed necessary for proper office administration. The cost of TORG runs may be roughly calculated using the schedule that appears in GL-73-10-168.

3.04 One of the most important office records is the office equipment number (OEN) record ESS 2171-R. This record contains a listing of each OEN in the central office and is arranged in a numerically ascending sequence. To eliminate posting of service order information to the ESS 2171-R, it is recommended that the received service order should be filed and retained for easy reference. The only recommended information to be entered on the ESS 2171-R is a trunking location change. However, if it is desirable to post service order information, enter only a brief notation.

3.05 As OENs are needed for the service order bureau's use for assignment, the latest mechanized load balance study output should be consulted and the appropriate concentrator(s) should be chosen for terminal availability. A brief notation should be placed on the ESS 2171-R line associated with the OEN sent on assignment lists.

3.06 Another benefit that may be derived from frequent TORG runs is the elimination of the necessity to verify every available OEN given to assign. As proficiency increases with the use of the TORG output, the confidence level of the record will increase, since the records are printed showing the issue date and will accurately reflect the contents of the office on that date.

TORG STANDING ORDER

3.07 At the beginning of each calendar year, a request for TORG runs on a standing order basis on form 3034 may be completed and sent directly to the WE region. Attached to form 3034 should be a letter of authority to obtain the TORG runs as needed for the ensuing year. A copy of form 3034 should be conveyed to the WE data link coordinator. All further communications with the WE region concerning the TORG runs will be via the Data Link Questionnaire, Form E-8103, and the WE data link coordinator. These procedures

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eliminate the need for involvement of the network engineer, and the WE ESS engineers. However, this applies **only** to TORG requests. Any translation updates and growth related to the No. 2 ESS should be handled as outlined in BSP Section 232-124-301.

3.08 When the TORG run, without initial "Remarks" entries and the associated ADL dump, is desired the network administrator should complete the E-8103 questionnaire and attach a copy of a completed ESS 2002 form to the E-8103. The completion procedures for the ESS 2002 and the E-8103 are explained in paragraphs 3.09 and 3.10. These two completed forms should be sent directly to the WE data link coordinator.

COMPLETION PROCEDURES—FORM ESS 2002

3.09 The ESS 2002 form (Fig. 1) is designed to advise the WE region of an office records request. It **must** accompany the E-8103 (Fig. 2) ADL questionnaire whenever a TORG run is requested.

(a) The date in the upper right hand portion of the form should represent the date of the scheduled ADL dump, **not** the date of completion.

(b) **Part A** of the form is designated to identify general information. The "name of the office" column identifies the office in common language along with the base and control number used to identify the sender. The line reserved for the "WE Order Number" does not need to be filled in for TORG runs. The line designated as "telephone company order no." will refer to the requisition number submitted on form 3034 that initiated the running order.

(c) **Part B** is available for marking those office records required by the TORG run. Place an "x" in the block to the right of the desired record(s). If all available records are desired, then an "x" should be placed to the right of "all available". Subsets of records can also be obtained by marking an "x" opposite the "line records", "trunk records", etc. For individual records, the appropriate record should be designated. It is recommended that the typical TORG request for line and number information include the following records only:

- 2100-R

- 2105-R

- 2170-R

- 2171-R

- 2500-5C-R

- 2502-R

- 2306-R

(d) **Part C** should **not** be completed for TORG runs.

(e) **Part D** should contain the name and telephone number of the network administrator.

(f) **Part E** is noted as the mailing address of the recipient of the output records. This address should be the same as the "option address B" shown on Fig. 2, Page 15/16 of the E-8103 questionnaire.

COMPLETION PROCEDURE—E-8103 ADL QUESTIONNAIRE

3.10 E-8103 (Fig. 2) is the vehicle necessary for scheduling the ADL activities and is basically applicable only to in-service offices. This form is required for ODA updates, office growth, and office records. When associated with ODA updates and office growth, an ESS 2001 is required and the **full** office records will be supplied as part of the job cost. Whenever more than one data link is required, the revised office records should be specified on the last dump, ensuring the most recent reflection of the program store contents. **This section on the E-8103 will pertain to the TORG requirements only.** The other options are variations on these listed procedures.

(a) **Page 11/12**

(1) **Ref. 1**—Identifies the central office location.

(2) **Ref. 2**—For TORG procedures the WE order portion (left side) of this line is left blank. Information required for the telephone company portion (right side) must be completed to refer to the standing order procedures outlined previously.

(3) **Ref. 3**—Contact information is entered on these lines. The telephone company coordinator should be the central office personnel who will handle the TORG origination.

(4) **Ref. 4**—For TORG purposes, only one data link dump is required.

(5) **Ref. 5**—Need only be completed if necessary since prior approvals are required for the standing order.

(b) **Page 13/14**

(1) **Ref. 2**—For TORG, the purpose should be defined as “office records only”.

(2) **Ref. 3**—Specify the number of translation modules which will be transmitted. **Do not** include the generic quantity.

(3) **Ref. 4**—Transmission direction for TORG will always be from “central office to region office”.

(4) **Ref. 5**—Enter an estimated minimum and maximum time required for translations transmission. Quantity of minutes is calculated.

(a) Translation modules by six minutes = minimum data link time

(b) Translation modules by 18 minutes = maximum data link time

(5) **Ref. 6**—Will contain the requested time and date the data transmission should occur. The time will be agreed upon by network maintenance and administration personnel. If the requested time is not available at the WE region, telephone company personnel will be advised before the stated time. The hours should be between 8:00 a.m. and 4:15 p.m. Monday through Friday except during the office busy hour(s). Allow approximately two weeks from date of form completion to the actual date of the data link.

(6) **Ref. 7**—The telephone company terminal identification refers to the central office location, the associated personnel and the local contact telephone numbers.

(7) **Ref. 8**—The WE identification identifies the data link terminal and support personnel.

(c) **Page 15/16**

(1) **Ref. 1-6**—For the TORG run **only**, the reference “1” should be checked. Associated with a TORG run, the records will be returned on two-part paper.

Note: If the records are shipped with more than two copies, they are to be returned to the WE region as “nonacceptable”. Address A and B quantity should specify “1” in each column.

(2) **Ref. 7**—Option Address A and B should be defined as the central office and the network administrator, respectively. Option Address A is specified as the hardcopy which is nonerasable and is printed on regular computer output paper. Option Address B is the second copy which is on heavy erasable bond paper.

(d) **Page 17/18**

(1) This page describes the various job options available. **Only** reference number one will be checked for a TORG run.

Note: For a normal TORG run, where only specific output records are requested, the preceding applies.

3.11 To ensure accuracy of the TORG, it is advisable to freeze all service order or recent changeable activity to the No. 2 ESS just before the data link initiation. For example, if a data link is scheduled for a Monday morning at 9:00 a.m., the service order teletypewriter channel should be key disabled on Friday at 5:00 p.m. at the No. 2 ESS maintenance center until after the data link dump. This interim allows the central office personnel to update, via recent change techniques, the information stored in the recent change area of the call store modules to the program store location. With this operation complete, the program store will contain the most up-to-date location of all lines, trunks, and service circuits.

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4. "REMARKS" ON TORG OUTPUT

GENERAL

4.01 The provisions for remarks on specific R forms for No. 2 ESS are outlined in GL-75-11-175. These procedures address themselves only to the method of generating remarks for TORG. The methods of updating the annotations tape for growth or translations updates are covered in the translation guide.

4.02 The "Remarks" spaces on the affected No. 2 ESS input forms (table A contains a list of those forms allowed) must be keypunched and any data submitted to WE entered, via cards, for inclusion into an annotations tape which becomes part of the TORG program. Once the information is entered into the "Remarks" tape, the output of the tape will be included in all other TORG outputs, at the appropriate location, until changed. In order to bring uniformity to the output records a maximum of 17 character spaces for remarks will be accommodated. These columns of information will then be processed into the associated output records. Changes can be made to the "Remarks" columns *only* by submitting new input forms. It should be noted that remarks information *cannot* be changed via recent change techniques as they are not part of the machine memory.

4.03 Before any "Remarks" entries are generated, it is mandatory that an up-to-date TORG be generated for those records where remarks are to be printed. A TORG run will ensure a starting point to keep the office accurate as to data stored. *Any* remarks entries entered on the next TORG run should be based on the most frequent TORG output generation.

INITIATION OF REMARKS

4.04 Select the appropriate reproduced input form (for example, ESS 2100) and fill in the required information properly. Enter the following:

- (1) Base and control (column 6 through 11)
- (2) ESS unit
- (3) Office code (column 17 through 19)
- (4) Hundred digits (column 20 and 21)

- (5) Directory number (column 22 and 23).

For each directory number where a remark is required, enter R in column 80. This indicator tells the keypunch operator that an entry is required, beginning with column 63. *Do not* exceed 17 alphanumeric character positions (including spaces). The ESS input forms have been reissued to provide the proper number of allowable keypunch entries in the "Remarks" fields.

4.05 For each form where remarks entries are required (table A), the appropriate division of the TG-2H should be consulted. For example, Division 4, Section 1a, of the TG-2H, contains the description of column 80 requirements, when the ESS 2100 R is required for remarks entries.

Completions Procedure—ESS 2100

4.06 Following is the only information required for the "Remarks" annotation tape input:

- (1) Telephone number (column 17 through 22)
- (2) R in column 80
- (3) Appropriate alphanumeric in columns 63 through 79. (See table B for some suggested input formats.)

It must be remembered that the initial entries to the annotations tape should be entered with, or before, a subsequent TORG run after the run suggested in paragraph 4.03 has been accomplished.

TORG WITH REMARKS TIME LINE

4.07 Two weeks is suggested as the amount of lead time required to process the TORG information and to allow for a data link. This time could be extended one additional week when keypunch updates of the annotations tape are required. It should be noted that if information is contained in the "Remarks" columns, and if it is desirable to delete existing information, only enter an R on the corresponding line of the input form.

E-8103 FOR "REMARKS" ENTRY

4.08 The generations required for remarks is designed to be viewed in three basic stages.

These next paragraphs address themselves to those stages.

NORMAL TORG GENERATION

4.09 The procedures for E-8103 and accompanying ESS 2002 completions are submitted to WE, based upon paragraphs 3.09 and 3.10 of this practice.

ANNOTATIONS TAPE GENERATION (WITHOUT TORG)

4.10 Upon receipt of the TORG output, the network administrator will complete the input forms (table A) with the appropriate "Remarks" entries, and an ESS 2001 (Fig. 3.) as the inventory of associated input forms. These should be submitted to the WE data link coordinator along with a completed E-8103. The completion procedures for the E-8103 should be followed per paragraph 3.10 except for the following:

- (1) Page 11/12, do not complete reference number 4 (quantity of data link schedules attached)
- (2) Page 13/14, do not complete any item on this page
- (3) Page 15/16, do not complete any item on this page
- (4) Page 17/18, place an "X" in reference number 3 *only*.

Completing reference number 3 only, indicates to the WE coordinator that this is a request to initiate the annotations tape *only*. Instructions for completion of ESS 2001 are specified in the TG-2H, Volume 1, Division 2, Section 6.

TORG WITH "REMARKS" UPDATED

4.11 Upon completion of the E-8103 and the ESS 2002 an alternative to 4.10 (initial

annotations tape generation) (without TORG) would be to insert the "remarks" and receive TORG simultaneously.

4.12 After receipt of the updated TORG records, the following procedures should be followed:

- (1) Complete the input forms (table A) with the appropriate "Remarks" entries.
- (2) Complete an ESS 2001 forms inventory.
- (3) A copy of the E-8103 should be completed as outlined in 3.10 except Page 17/18, reference number 7 should be completed as follows: "Office NNX annotation tape updated (generated) per attached ESS 2001 and listed input forms; subsequent TORG per attached ESS 2002 (for office records) after data link."
- (4) Complete ESS 2002 to obtain the desired records.

4.13 The combination of procedures outlined in 4.12 should be followed for all subsequent TORG outputs, after the annotations tape has been generated. It is permissible to receive subsequent TORG outputs without updating the annotations tape. However, any *changes* since the latest "Remarks" update (or generation) will not appear on the TORG output, but the latest "Remarks" will appear.

4.14 It should be an administrative decision whether TORG, or TORG with "Remarks" is to be used. Just as it is permissible to obtain individual records, records pertaining to specific translations (trunks, lines, etc), or all available, it is valid to enter "Remarks" on specific forms, within the limitation specified in table A.

GENERAL INFORMATION FOR USE OF THIS FORM

1. This form was prepared by the Systems Engineering Consultant Organization of the ESS Product Engineering Control Center. Suggestions for the improvement of this form and questions concerning its content may be directed to:

Western Electric Company, Inc.
 ESS Product Engineering Control Center
 Systems Engineering Consultant — Dept. 7132
 Naperville, Illinois 60540

2. The purpose of this form is to provide a vehicle for scheduling Administrative Data Link (ADL) activities, to establish identity of persons responsible for the ADL input, output and processing operation, and to identify the specific telephone company requirements for the order.
3. This questionnaire is normally applicable only to in-service offices. This form may be used in coordination with E-8071 (No. 2 ESS Equipment Questionnaire) or E-8100 (No. 2A ESS Equipment Questionnaire).
4. The ADL is a system for transmitting data between two locations. It can be used at the No. 2 ESS office to transmit and receive program store or to retransmit call store information. Western Electric support locations (Regions or PECC) are involved in the following typical applications:
 - A. Requests for Translation Office Records Generation.
 - B. Translation Data Table Generation update for translation change or office growth. (A translation change includes "Restarts" and/or "Retrofits")

Detailed information regarding data link application and operation is available in TG-2H (No. 2 ESS Translation Guide) and BSP 232-008-301 and 232-124-301.

5. Reference notes for use in completing the questionnaire are included in this form. The notes are positioned so as to face the page of questions or information to be supplied. After completion of E-8103 the pages containing information notes should not be reproduced.

Additional copies of this form may be obtained without charge upon direct letter or TWX request to:

Western Electric Company, Inc.
 Headquarters Publication Center
 222 Broadway
 New York, New York 10038

6. The availability of the ADL system and associated processing system at each Western Electric support location is indicated in AT&T engineering letter EL 2421 (GL-73-10-168).

Fig. 2—Questionnaire for No. 2 ESS Administrative Data Link Request (Page 1 of 6) (3.09) (3.10)

TYPICAL OFFICE DATA ADMINISTRATION APPLICATIONS**I. Translation Office Records Generation (TORG)**

The operating company may request a new, partial, or complete set of Translation Administrative (TA) records and/or utility records for a No. 2 ESS office. Translation Administration records are a cross-referenced list of information relevant to the administration of routing, charging and line definitions for an office. The utility records are listings of data in program store and call store. The operating company may request new copies of the records from time to time to replace worn sets, to update the records with the latest remark changes affected due to application of recent changes, or to verify the actual machine translations. The latter is possible because the records generation programs derive the records from the working program store image. This image must be transmitted via Administrative Data Link from the No. 2 ESS office to the WE support environment for data center processing. The Translation Administration Records output is printed on 8-1/2 x 11 three-part paper (GN 49-34). The third part is erasable and is maintained as the official office record. The other utility records are printed on 11 x 17 computer printout paper.

II. Translation Data Table Generation Update

The update of some translations requires input forms to be merged with the information in the existing program store translation image. Translation updates may be requested for growth or for major changes in routing and charging definitions. This is done by incorporating new input into the existing translator structure or by rebuilding the translator. Updates require one or more data links from the ESS office site to the WE support location. The telephone company may elect to transmit translations from the support location to the single card writer at the office site by data link. The alternative is to send new translations on magnetized cards arranged to minimize the recent change freeze interval. (Refer to TG-2H). The schedule provides enough time for the documentation to arrive on site for verification before new translations are data-linked back to the No. 2 ESS.

III. Data Link Schedule Notification

The following section includes the forms to be used for ODA requirements and scheduling. The forms are designed to be used for all options. The information on the form must be negotiated by the Regional WE and TelCo representatives responsible for the job. Confirming order authorizations for office records only or ODA translation update must be forwarded by the telephone company initiating the request to WE. ODA processing and office records for office growth will be included in the authorization for the growth job.

Any TelCo input data required for the ADL application must arrive at WE to permit keypunch operations and any input pre-processing needed to support the negotiated schedule.

Fig. 2—Questionnaire for No. 2 ESS Administrative Data Link Request (Page 2 of 6) (3.09) (3.10)

INFORMATION NOTES — NO. 2 ESS — E-8103 REFERENCE

Ref Nbr.

- 1 Complete the Central Office identification for the No. 2 ESS office associated with this order.
- 2 List the order numbers and accounting information for processing and billing this job.
- 3 The WE contact is the data link coordinator for a given Region. He is a single source contact for all data link activity between the telephone company and the Western Electric support location. The TelCo coordinator should be a single source contact for arranging all No. 2 ESS data link activity for the TelCo area or company.
- 4 Define the number of data link required for this job. This number will vary according to the type of activity desired. For example, an office records only job would require one data link from the ESS site to the WE support location. An office growth may require two data links from the office and one from the WE support location to the ESS site. Refer to TG-2H (No. 2 ESS Translation Guide).
- 5 This entry identifies the ADL coordinators who approved the ADL schedule.

Ref Nbr.

1 Central Office Identification
 Telephone Company _____
 Office Name _____
 Office Address _____ Street _____
 City & State _____
 Zip Code _____

_____ & _____
 Base Number Control Group

2 Western Electric Order _____ Telephone Company Order _____
 Service Center _____ No. _____ Telephone Company Accounting Classification _____
 Identification Number _____ Area _____ EST Auth _____ Acct _____

3 Western Electric Coordinator Telephone Company Coordinator
 Name _____ Name _____
 Title _____ Title _____
 Address _____ Address _____
 Phone _____ Phone _____

4 Quantity of Data Link Schedules Attached _____

5 Approvals _____ Date _____ Phone _____
 Prepared by (TelCo) _____
 Approved by (TelCo) _____
 Negotiated with (WE) _____

Fig. 2—Questionnaire for No. 2 ESS Administrative Data Link Request (Page 3 of 6) (3.09) (3.10)

INFORMATION NOTES — NO. 2 ESS — E-8103 REFERENCE

- Ref Nbr.
- 1 This form may be reproduced locally as required. Attach one page for each data link to be scheduled.
 - 2 Outline the purpose of the data link covered on this ADL schedule. (Office records only, Translation Update, etc.).
 - 3 Specify the quantity of modules which will be transmitted.
 - 4 Specify the direction of transmissions for the data link.
 - 5 Formula to compute estimated run time is as follows:

<u>Mode</u>	<u>Number of Modules</u>	<u>Minutes/Module</u>	
Chained	X	6	= Minimum Data Link Time
Unchained	X	18	= Maximum of Data Link Time
 - 6 The Western Electric and the telephone company coordinators should establish the time for each of the data link transmissions. Enter the time and date.
 - 7 This entry is used to identify the telephone company data link terminal. The emergency contact should be a supervisor who is responsible for the No. 2 ESS machine operation.
 - 8 The Western Electric support data link terminal is identified by this entry. The local contact will normally be a person within the data center. The voice phone number is to be used as an alternate for the regular data phone number. The emergency contact will normally be the engineer assigned to the job.

- Ref Nbr.
- 1 Data Link Schedule Number _____ of _____
 - 2 Purpose: _____

 - 3 Number of modules to be transmitted is _____
 - 4 Transmission is from _____ to _____
 - 5 Estimated Minimum and Maximum Times Required for Transmission
 Minimum Time _____
 Maximum Time _____
 - 6 Data transmission activities as indicated above are to begin at approximately _____ (a.m.) (p.m.) on _____ (date)
 - 7 TelCo Terminal Identification
 Location _____ Data Phone Number _____
 Local Contact _____ Voice Phone Number _____
 Emergency Contact _____ Supervisor's Phone Number _____
 - 8 WE Support Identification
 Location _____ Data Phone Number _____
 WE Contact _____ Voice Phone Number _____
 Emergency Contact _____ Supervisor's Phone Number _____

Fig. 2—Questionnaire for No. 2 ESS Administrative Data Link Request (Page 4 of 6) (3.09) (3.10)

INFORMATION NOTES — NO. 2 ESS — E-8103 REFERENCE

Telephone Company Order No. _____ Page _____

Ref Nbr.

- 1 Specify the quantity of Translation Administration Records, if any, to be generated for this order. The minimum quantity when specified is two. This is due to the three-part paper used to produce an original, an erasable copy and a non-erasable carbon copy. The non-erasable carbon is retained in the region for their record. Individual additional copies (non-erasable) may be ordered. The standard arrangement will be two copies (one original, and one erasable). Additional copies will involve additional billing. Attach form ESS 2002 from TG-2H to specify which ESS 2XXX-R records are to be generated.
- 2 The functional listing is an alphabetical list of translation data tables. The actual program store address and contents are octally defined under each table. Specify the quantity of listings required for this job. This document is only available on 11" x 17" paper.
- 3 The magnetization listing is an octal representation of the program store image. This image may be obtained by a data link transmission from the office or from the translation update process. Specify the quantities of this listing that you want furnished.
- 4 An octal listing of call store translation information by function is generated as the call store map. Specify the quantity of call store maps that you want furnished.
- 5 A program store map is an octal listing of all program store addresses in an ascending order. Specify the quantity of program store maps that you want furnished.
- 6 A preferential network assignment list (PA list) is a series of Terminal Equipment Numbers (TENs) in three lists. These lists may be used in the assignment of loop start lines, class A or ground start lines and trunks and service circuits across the No. 2 ESS switching networks. Indicate the quantity of PA lists and when they are to be furnished on this order.
- 7 Enter the name and address where the quantity of office records indicated in address A and B are to be sent. If office records are required for more than two addresses, page 17/18 should be reproduced. Identify addresses as C, D, etc.

Please furnish the following office records associated with the "Job Option" selected on the previous page.

<u>Ref Nbr.</u>	<u>Option</u>	<u>Address A Quantity</u>	<u>Address B Quantity</u>
1	<input type="checkbox"/> A. Translation Administration Records Form ESS 2002 attached	_____	_____
2	<input type="checkbox"/> B. Functional Listings	_____	_____
3	<input type="checkbox"/> C. Magnetization Listing	_____	_____
4	<input type="checkbox"/> D. Call Store Map	_____	_____
5	<input type="checkbox"/> E. Program Store Map	_____	_____
6	<input type="checkbox"/> F. Preferential Network Assignment List	_____	_____

7 Send the quantities of forms as indicated below:

<u>Option Address A</u>	<u>Option Address B</u>
Name _____	Name _____
Company _____	Company _____
Street _____	Street _____
City _____ State _____	City _____ State _____
Zip _____	Zip _____

Fig. 2—Questionnaire for No. 2 ESS Administrative Data Link Request (Page 5 of 6) (3.09) (3.10)

INFORMATION NOTES — NO. 2 ESS — E-8103 REFERENCE

Telephone Company Order No. _____ Page _____

Ref Nbr.

- 1-4 Check one of these options to obtain some or all office records. Only one data link transmission is required. This transmission will send the current program store image to the WE support location. When remark changes are required, they must be entered on the ESS 2000 Series input forms. Form ESS 2001 is an inventory of these forms and should be attached to this questionnaire. If ESS forms are to be sent for this TORG request, scheduling considerations must be made for processing these forms prior to the data link. The program store should be updated (recent change written on the program store cards) prior to data transmission. Enter the quantity of office records required on Page 17/18.

- 5 This option is checked for a "software" type update. This update would not be associated with any "hardware" additions. Changes to translation are entered on ESS input forms. Form ESS 2001 is an inventory of those forms and should be attached to this questionnaire. At least one data link transmission of the program store image is sent to the WE support location for this option. Additional program store image data link transmissions may be required to reduce the recent change freeze interval. If the telephone company elects to write the new translations via the single card writer, a data link transmission from the WE support location to the ESS site is required. The quantity and direction of data link transmission must be specified on this questionnaire. Attach the required quantity of data link schedules (page 13/14). Enter the quantity of office records required on Page 17/18.

- 6 This option is identical to the above, except that it will be associated with a hardware growth and therefore, scheduling considerations must be made. Completed equipment questionnaires E-8071 or E-8100 are submitted to Western Electric. A data link transmission schedule associated with the hardware addition which is required to generate preferential network assignment lists and a trunk equipment inventory is included in Section F of the equipment orders. Enter the quantity of office records required on Page 17/18.

- 7 This option is to be checked for job options not fitting the descriptions identified above. One example is a translation update required for a generic program retrofit. This update would normally not require input from the TelCo other than the program store image from the ESS office. Explain the purpose of this option when it is checked. Enter quantity of office records required on Page 17/18.

JOB OPTIONS

(Only one of the following options shall be specified)

Ref Nbr.

- 1 Office Records Only

- 2 Form ESS 2001 not applicable for this request

- 3 Form ESS 2001 and listed input forms attached

- 4 Form ESS 2001 and listed input forms will be submitted on _____
Date

- 5 ODA Translation Update
 Form ESS 2001 and listed input forms are attached
 Form ESS 2001 and listed input forms will be submitted on _____
Date

- Translations are to be returned to ESS via: Administrative Data Link
 Magnetized Cards

- 6 Office Growth
 Form ESS 2001 and listed input forms are attached
 Form ESS 2001 and listed input forms will be submitted on _____
Date

- Translations are to be returned to ESS via: Administrative Data Link
 Magnetized Cards

- 7 Other _____

Fig. 2—Questionnaire for No. 2 ESS Administrative Data Link Request (Page 6 of 6) (3.09) (3.10)

TRANSMITTAL NOTICE

ESS 2001

DATE _____

TO: WESTERN ELECTRIC COMPANY

ATTENTION _____

A. ATTACHED ARE NO. 2 ESS TRANSLATION FORMS SUBMITTED FOR PROCESSING

NAME OF OFFICE: _____

WESTERN ELECTRIC COMPANY ORDER NO. _____

TRANSLATION FORMS ARE: INITIAL
 UPDATE
 (CHECK ONE)

B. LISTED BELOW ARE THE QUANTITY OF PAGES WHICH ACCOMPANY THIS TRANSMITTAL NOTICE:

ESS FORM NO.	PAGES	ESS FORM NO.	PAGES	ESS FORM NO.	PAGES
2100	_____	2209	_____	2505	_____
2101	_____	2210	_____	2506	_____
2104	_____	2213	_____		
2105	_____	2300	_____		
2107	_____	2301	_____		
2108	_____	2302	_____		
2109	_____	2303	_____		
2202-1	_____	2304	_____		
2202-2	_____	2306	_____		
2204	_____	2500	_____		
2206	_____	2501	_____		
2208	_____	2502	_____		

TOTAL NUMBER PAGES ATTACHED

C. QUESTIONS RELATING TO THESE FORMS SHOULD BE DIRECTED TO (NAME) _____

(TEL. NO.) _____

AREA CODE NUMBER

D. SEND OFFICE RECORDS TO:

ADDRESS _____

CITY _____ ZIP _____

E. SEND MAGNETIC LISTING, FUNCTIONAL LISTING TO:

ADDRESS _____

CITY _____ ZIP _____

Fig. 3—Transmittal Notice Form ESS 2001 (4.10)

TABLE A

FORMS ALLOWED FOR REMARKS PROCESSING

ESS 2100	ESS 2300
ESS 2101	ESS 2302 (3B only)
ESS 2105	ESS 2303-1
ESS 2107	ESS 2303-2
ESS 2202-1	ESS 2306
ESS 2202-2	ESS 2509

TABLE B

SUGGESTED REMARKS ENTRIES FOR TORG

TELEPHONE NUMBER REMARKS SPACE ENTRIES	EXPLANATION
1. 1000 cycle test number, etc.	
2. RES	Reserved
3. D 7-10-74 T/C	Business Disconnect: Referral of Calls
4. RD 9-1-74 T/C	Residence Disconnect: Referral of Calls
5. C 10-2-74 T/C	Business Change: Referral of Calls
6. RC 11-1-74 T/C	Residence Change: Referral of Calls
7. D 11-2-74 No T/C	Business Disconnect: No Referral of Calls
8. RD 11-3-74 No T/C	Residence Disconnect: No Referral of Calls
9. C 11-4-74 No T/C	Business Change: No Referral of Calls
10. RC 11-5-74 No T/C	Residence Change: No Referral of Calls
11. PLT ASSGN	Plant Assignment
12. NON-PUB D	Nonpublished: Disconnect
13. EL	Essential Service
14. NITE SVC	Night Service
15. LDN	Listed Directory Number
16. MAN	Manual Line
17. INTC until 1-1-75	Intercept until 1-1-75
18. BTN	Bill to Number
19. DLL	Dial Long Lines
20. DNA	Do Not Assign
21. NONPUB C	Nonpublished Change
22. RE 11-15-74 T/C	Residence Change: Company-Initiated Life of Directory
23. BN 10-2-74 No T/C	Business Disconnect or Change Nonlisted, No Referral