

**CENTRALIZED AUTOMATIC REPORTING ON TRUNKS (CAROT)
CAROT 2/GENERIC 2
CIRCUIT-ORDER ACTIVITY
IMPLEMENTATION AND DESCRIPTION**

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NOTICE

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and operational tests to verify the circuit is functioning properly at completion.

(d) Same day update of the CAROT 2 routine and demand test and test frame tape data bases.

(e) Notification of circuit-order completion to the circuit-order bureau and to the network operations management of the provisioning process including the plant control office and the CAROT 2 center.

2. CIRCUIT-ORDER OPERATIONS

GENERAL

2.01 Circuit-order activities involve tasks such as connecting, disconnecting or rearranging a service-related circuit and/or those administrative duties associated with tracking the physical work performed on such circuits.

2.02 In general these tasks are performed in the following sequence. See Fig. 1.

(a) The circuit-order bureau (or trunk or dial administration) will provide data concerning a pending circuit order to the CAROT 2 center well before the circuit order is to be worked.

(b) At the CAROT 2 center the pending circuit-order data will be added to the circuit-order data base via the update process.

(c) The plant control office has administrative responsibility for circuit-order work assigned to control offices (central offices) functioning under its direction.

(d) At the central office, the associated remote-user terminal can be used to obtain displays of circuit-order data. This data can be used to schedule circuit-order work in accordance with the assigned due dates.

(e) At the central office, the remote-user terminal/CAROT 2 interface can be used to initiate end-to-end transmission and operational test of circuits in the preservice state.

(f) At the central office, the remote-user terminal/CAROT 2 interface will be used to initiate circuit-order completion reports. An

intrinsic feature of the completion request is the automatic testing of circuit functions. A test failure is reported back to the remote user, and the requested completion is blocked unless a test failure override is specified.

(g) The CAROT 2 controller will, depending upon the options selected, automatically perform the following functions:

- Update the routine and demand test and test frame tape data bases
- Indicate the completion management reports
- Indicate the completion on the file of completion notifications sent to the circuit-order bureau, thus terminating circuit-order activities for the specified circuits.

SYSTEM FLEXIBILITY

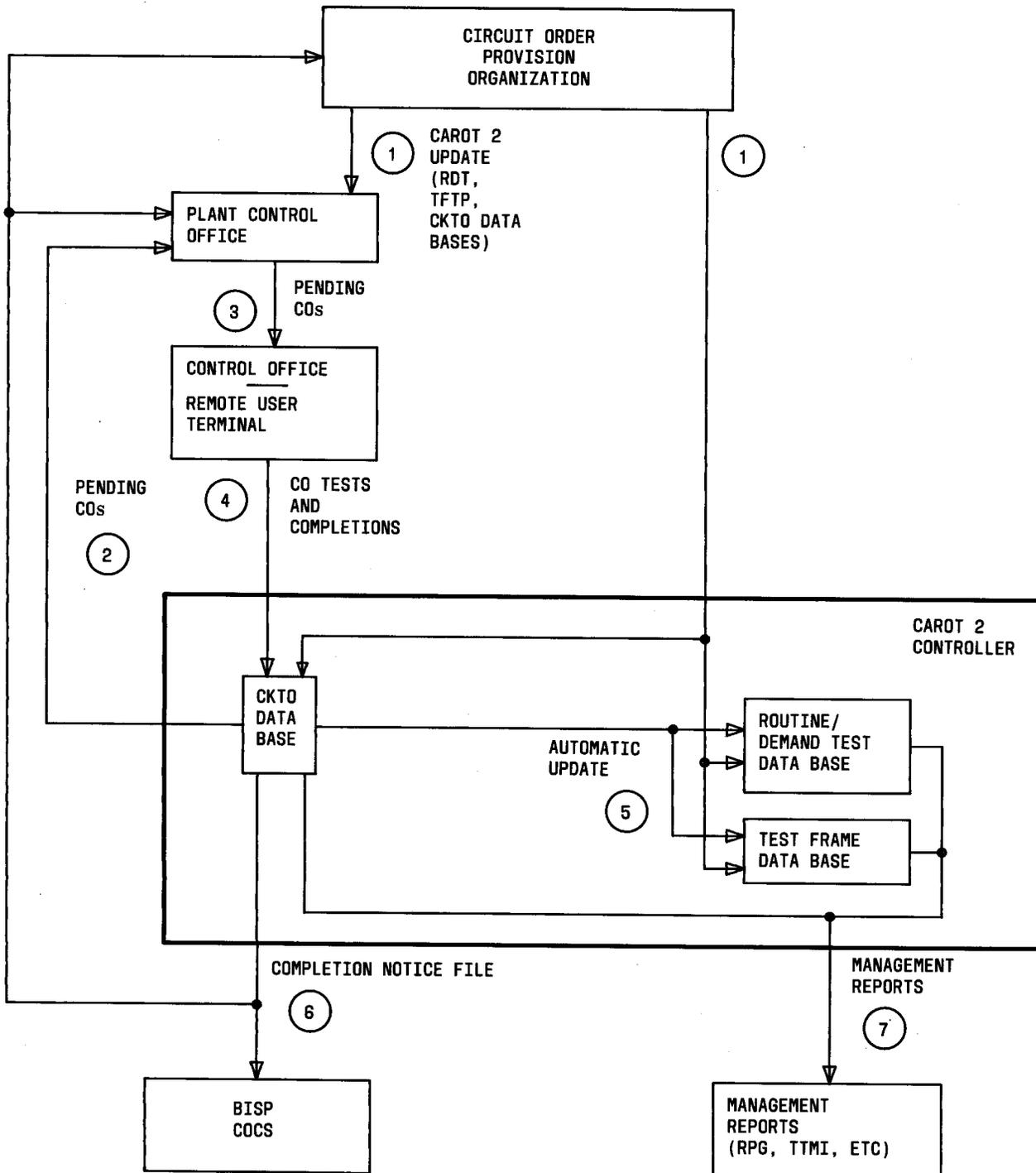
2.03 The circuit-order operations software package is structured so as to allow flexibility, thus making it adaptable to different administrative environments. The processing stages at which this flexibility allows the choice of company procedures to determine circuit-order operations is described in the following paragraphs (2.04 through 2.10).

A. Selecting Trunks for CAROT 2 Completion Process

2.04 When implementing the CAROT 2 circuit-order completion process, determinations must be made as to the scope of operations. Factors to consider are whether the completion operations will include CAROT testable trunks, test frame testable trunks and/or trunks that cannot be tested via CAROT. CAROT 2 is capable of reporting completion work on all of these categories and can, therefore, support the entire circuit-order completion process for all trunks. In order to optimize operations, it is recommended that if some trunk circuit orders in an office are to be reported via CAROT, then all trunk circuit orders in the office should be reported via CAROT.

B. Data Input to the CAROT 2 Center

2.05 The CAROT 2 controller will accommodate a variety of forms of input media on which track magnetic tape (800 or 1600 CPI), paper tape (8 level), and/or remote manual input.



LEGEND:
 CIRCLED NUMBERS ALONG DATA FLOW LINES INDICATE SEQUENCE OF CIRCUIT-ORDER OPERATIONS

Fig. 1—Circuit Order Data Flow Operation

2.06 Consideration must be given to the best location for a data preparation site. The selection of locations include the circuit-order bureau and the CAROT 2 center.

C. Remote-User Terminal/CAROT 2 Test and Completion Functions

2.07 The remote-user terminal/CAROT 2 interface may be used to perform demand end-to-end transmission and operational tests and report completions of circuit-order work, or CAROT 2 can be used to test only or complete only (as in the case of non-CAROT testable trunks).

D. Data Base Update Methods

2.08 The routine and demand test and test frame data bases as impacted by circuit-order completions may either be updated automatically via completion reports entered at the remote-user terminal or by the 9-track magnetic tape as supplied by the mechanized system employed at the circuit provision organization. Software flexibility provides for the prohibiting of automatic updates when local standards make it desirable to employ the mechanized source system exclusively for updating circuit-order data. When using this method, the circuit provision organization will receive from CAROT 2 completion data in the form of the completion notice file. In turn, this circuit-order completion data may be merged with other update data and then sent back to CAROT 2 as part of a regular update. The latter of these two update methods may lend itself to better data base consistency. However, if the mechanized circuit-order update system is employed, it must be realized that the penalty may be an extended delay in initializing routine tests on trunks that have recently been placed in service.

E. Media Options for Completion Notice File

2.09 Available media options for conveying the completion notice file will be determined by the system employed at the circuit-order provision bureau. Presently, the selection allows the choice of magnetic tape or paper forms.

- (a) When the circuit-order control system (COCS), a module of BISP-TICKS, or a mechanized circuit-order control system other than COCS is employed, completion reports will be forwarded via 9-track magnetic tape.

- (b) When a manual mode for processing circuit orders is employed, completion reports will be forwarded on line printer generated paper forms.

F. Circuit-Order Data Base Audit

2.10 To facilitate the maintenance of circuit-order records and insure consistency between the CAROT 2 and company mechanized data bases, CAROT 2 can provide a magnetic tape containing the total representation of data as stored in the CAROT 2 circuit-order data base. This data can then be compared with the circuit-order data contained in the local mechanized data base. Thus any discrepancies discovered through this audit can be corrected in the subsequent update. Although this audit can be performed on the CAROT 2 System, it is preferred that it be performed on the company mechanized source system.

G. Review of Options

2.11 To achieve the optimum in user adaptability, the CAROT 2 circuit-order operational support system contains user options that allow maximum conformity when intergrated with local operating procedures. However, to fully utilize the CAROT 2 features, it is imperative that the company formulate a coherent approach to circuit-order operations with respect to the following key areas:

- (a) Circuit-order data origination
- (b) CAROT 2 center activities concerning data input to CC2 controller and dissemination of management reports
- (c) Central office completion and testing procedures
- (d) Circuit-order completion notification
- (e) Data base audit.

CIRCUIT-ORDER TERMS AND DEFINITIONS

2.12 To ensure a smooth flow in circuit-order operations, it is imperative that personnel involved with these procedures be fully familiar with the meanings of the associated terms and abbreviations. To achieve this end, the following list of circuit-order terms with explanations is provided. Further details covering the specific CO data base applications of these terms are given in

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Section 190-102-203, CC2 Data Base Description and Requirements, Genric 2.

Circuit Order (CO or CKTO): A collection of service-related work assignments which will require craft work on actual circuits as well as the associated administrative work. Each circuit order is identified by an 18 character alphanumeric number called the circuit-order number. (Up to 17 of these characters may be blanks).

Circuit-Order Item (COI): A circuit-order item refers to a specific work segment that is part of the total work package that comprises a circuit order. Generally there are several items associated with a circuit order. Each COI is identified by the controlling circuit-order number, plus an item number consisting of a maximum of three numeric characters. Typical work assignments associated with a specific circuit-order item are as follows:

- (a) Add a circuit in a central office
- (b) Disconnect a circuit in a central office
- (c) Rearrange a circuit or alter equipment configurations employed by the circuit
- (d) Cancel a previously issued circuit-order item.

Supplement Number (SUPL): A character appended to a COI number indicating a particular circuit-order item that has been reissued.

Due Date For Completion (Due Date): The calendar date by which the work assignment for a specific circuit-order item is to be completed.

Plant Control Office (PCO): The administrative center responsible for insuring that the circuit-order items are assigned, worked, tested, and reported complete by the designated central office.

CAROT Testable Indicator (CO Test): A data base entry, associated with the COI, which is used to designate whether CAROT can access the identified circuit for preservice circuit-order tests.

CAROT Circuit Order Completion Indicator (CAROT COMP): A data base entry, associated with the COI, which designates whether or not CAROT has responsibility for accepting a completion report from the plant control office and for the

timely notification of such completions to the circuit-order provision bureau.

CAROT Data Base Update Indicator (Update): A data base entry, associated with the COI, that is used to designate whether or not CAROT will automatically update the RDT and/or TFTP data bases when the identified COI is reported completed.

CAROT Circuit-Order Data Base Update Indicator (CO Update): A data base entry, associated with the COI, that is used to designate whether or not CAROT will automatically delete circuit-order items and circuit orders from the data base when the identified COI is reported completed.

Completion Notice File (CNF): Circuit-order data provided by CAROT and forwarded to the circuit-order bureau, COCS (if utilized), and plant control offices indicating the particular circuit-order work assignments that have been completed during a predetermined interval. Reports sent to different areas are formatted specifically to conform with the individual system requirements; ie, magnetic tape or paper forms.

Circuit-Order Completion: A report entered via the remote-user terminal indicating the completion of the total work assignment associated with the specified circuit order.

Circuit-Order Item Completion: A report entered via the remote-user terminal indicating the completion of a specific work assignment associated with the circuit identified by the COI.

Circuit-Order Testing and Completion (COTC): This refers to that portion of the CAROT data base dedicated exclusively to circuit-order activities. The primary functions are as follows:

- (a) Identification of pending circuit orders
- (b) Provides for preservice testing of circuits being worked on
- (c) Records progress pertaining to work assignments completed.

Circuit-Order Provision Bureau (COPB): This agency is responsible for overall management of records pertaining to service bearing circuits. These records are subsequently sent to CAROT as

pending circuit orders and/or updates to the RDT and TFTP data bases. The data format includes the following:

- (a) Identification of the work by circuit-order number and circuit-order item number
- (b) Information necessary for both preservice testing by CAROT and for update into the CAROT RDT and TFTP data bases
- (c) Due data for work completion.

Routine and Demand Test (RDT): This references that portion of the CAROT data base dedicated exclusively to scheduled routine and demand operational and transmission tests performed on trunks that are in service. The primary functions of this data base are as follows:

- (a) Provides for scheduled routine trunk tests
- (b) Provides for demand tests of trunks
- (c) Provides reports containing routine test results, management and index summary results
- (d) Allows the display of associated administrative, equipment and trunk/facility data base records.

Test Frame Tape Preparation (TFTP): This references that portion of the CAROT data base dedicated exclusively to generating test frame tapes for those companies employing the No. 5 crossbar automatic progression trunk test frame (APTT), the No. 4 crossbar automatic outgoing toll connecting trunk (AOTT) and step-by-step equipment.

Circuit-Order Test Limits: Those measurement requirements assigned to level, noise, and operational preservice demand tests performed on a trunk prior to reporting completion. These limits are generally more stringent than those assigned for routine tests.

Authorization: That responsibility given to central office craft personnel for the purpose of reporting completed circuit-order work assignments and implementing the test failure override condition. Remote users must have access via the CAROT 2

controller to be able to use these features. (See test failure override.)

Circuit-Order Scheduling: The plant control office allocation of pending circuit order and/or circuit-order item work assignments according to calendar dates to assure completion by the designated due dates.

Circuit-Order Completion Notification: That process by which a CNF is generated and forwarded to the circuit-order provision bureau, plant control office and remote-user locations (see CNF).

Magnetic Tape (Mag Tape): The 9-track magnetic tape used for transmitting CNFs and updates between the circuit-order provision bureau and the CAROT 2 controller. Data density on the tape will be either 800 CPI or 1600 CPI as required for system compatibility.

PCO Management Reports: CAROT 2 generated summary data pertaining to circuit-order progress. Results are grouped according to plant control offices.

Data Display: The means by which a remote user can view a selected portion of the circuit order or routine and demand test data bases.

Demand Test: An entry submitted by the remote user to implement a transmission or operational trunk test. Tests can be used for preservice evaluation of pending circuit-order items and for evaluating performance of trunks that are in service.

Audit: A check for consistency in circuit-order provision bureau and CAROT 2 circuit-order data bases. Data is recorded on 9-track magnetic tape for transmittal to either the circuit-order provision bureau or CAROT 2 center; whichever will be responsible for performing the audit.

Test Failure Override: The ability to execute a circuit order or circuit-order item completion in spite of a test failure condition reported as a result of a circuit-order demand test or circuit-order completion request. Only specified remote-user personnel will be authorized to use this feature. Individual remote users must have access via the CAROT 2 controller console to be able to use this feature.

**Business Information Systems Program—
Circuit-Order Control System (BISP-COCS):**

A mechanized system responsible for initiating and managing circuit-order work assignment records.

Pending Circuit-Order/Item: A circuit order or circuit-order item identifying a specified work assignment, having a projected due date, and which is yet to be reported as completed.

CIRCUIT-ORDER DATA BASE

A. Structure

2.13 The CAROT 2 testing data base is divided into three primary but separate and independent data bases. These data bases support circuit-order activities, routine and demand trunk testing, and test frame tape preparation. The routine and demand test and test frame tape data bases function to support trunks that have been placed in service, while the circuit-order data base functions specifically to support trunks that are in the process of installation or have been installed but not turned up for service.

2.14 These primary data bases are structured so that a single input may contain simultaneous updates to each of the data bases while being interspersed on the same media. The data formats are explained in detail in Section 190-102-203.

2.15 The input media on which the circuit-order data will be prepared may be in one of the following forms:

- (a) 9-track magnetic tape
- (b) 8-level punched paper tape
- (c) Control console input (disc files created by remote users using the EDIT program).

2.16 The circuit-order data base contains the following key items:

- (a) Identification by circuit order and circuit-order item number
- (b) Sufficient information for performing preservice testing via CAROT 2
- (c) Information to report circuit order completion of circuit-order work assignments.

- (d) Information for subsequent automatic updating into the CAROT 2 routine and demand test and/or test frame tape data bases.

B. Storage Capacity

2.17 The data base is capable of supporting the circuit-order process as configured to meet the individual plant requirements of each area of coverage. The quantity for which CAROT is capable of processing circuit orders during a given period is based on the assumption that there will be about one circuit-order action per trunk per year. Based on a maximum capacity of 100,000 trunks for routine and demand trunk tests, this translates to needed storage space for 15,000 to 20,000 items as related to supporting circuit-order activities during a period of 30 days of pending circuit-order work. Additional storage capacity may be required in situations such as when large cutovers are made. Guidelines for estimating needed disc capacity are provided in Section 190-102-201, Data Base Administration and Section 824-101-112, CC1 and CC2 Equipment Design Requirements, Issue 4. (Revision will be based on EL-5530B, CAROT 2—Generic 2 Controller Hardware and Software.)

2.18 Consideration must be given to the amount of data stored in the CAROT 2 circuit-order data base. Basically, the choice will be as to whether the data to be entered is for circuits whose completion dates will occur several days or several weeks in the future. The CAROT 2 circuit-order test and completion data base capacity is predicated on a trunk activities involving 150,000 circuit-order items annually. Therefore, CAROT 2 will accommodate 12,500 circuit-order items per month. A safety margin of 20 percent to facilitate overdue completions allows a maximum of 20,000 circuit-order items per month. Thus, in order to keep the circuit-order processing load in perspective, it is recommended that pending circuit-order items be inputted to CAROT 2 thirty days before the due date for completion (ie, the data base will accommodate thirty days of pending circuit-order work). Further details regarding storage capacity are given in Section 190-102-201.

3. CIRCUIT-ORDER PROVISION ORGANIZATION—DUTIES

GENERAL

3.01 The circuit-order provision bureau will have the primary responsibility for initializing

pending circuit-order work assignments, preparing and forwarding related data to CAROT 2, preparing subsequent CO data base data updates and auditing the associated circuit-order data bases.

INITIALIZATION OF CIRCUIT-ORDER WORK

3.02 The circuit-order provision bureau will compile data concerning pending circuit order relating to the addition of a new circuit, deletion of an existing circuit, or rearrangement of an existing circuit. This data should be forwarded to CAROT 2 well before the circuit order is to be worked (6-8 weeks).

3.03 The pending circuit-order data will include the following:

- (a) Identification of work by CO number and COI number
- (b) Sufficient information to initiate preservice testing and for automatic update of CO completions into CAROT 2 RDT and/or TFTP data bases
- (c) Final due date for work completion.

See Part 7 for details regarding record formats and content.

3.04 The data to be supplied to CAROT 2 must be prepared on the media consistent with the CAROT 2 and COPB equipment configurations (mechanized vs. manual). See paragraphs 2.05 and 2.15.

3.05 Upon successful completion of the designated circuit-order work activities, a completion report will be submitted to CAROT 2 via a remote terminal located at the responsible control office (central office).

AUTOMATIC UPDATES

3.06 Provided the proper CO completion indicators have been set accordingly, CAROT 2 will automatically modify its data bases by transferring record data from the CO data base to the RDT and/or TFTP data bases. The completed circuit-order items will then be deleted from the pending CO data base. While CO completions are being executed, the CNF will accumulate completion

reports as well as any jeopardy reports that are submitted.

MECHANIZED UPDATES

3.07 If the CO completion indicators were set to block CAROT 2 from making automatic updates, this data will be compiled on the CNF records resident in CAROT 2 to reflect CO completions.

3.08 Regardless of the completion process that has been implemented, the CNF will be forwarded to the COPB on a periodic basis. This tape will in turn be used to update the circuit-order data base resident at the circuit-order provision bureau.

3.09 In those situations where CAROT 2 does not perform automatic updates, the COPB will use the CNF to modify the resident CO data base accordingly. These changes (add COI completions, delete completed COs and add new CO activities) will then be submitted on the next update tape that is sent to CAROT 2.

3.10 If CAROT 2 is permitted to automatically execute updates of the RDT/TFTP data bases to reflect CO completions, it is not necessary that the subsequent update tape forwarded to CAROT 2 from the COPB contain data pertaining to those completions. Only new CO data need be reflected in the update tape.

MANUAL UPDATES

3.11 For locations where mechanized data base inputs via magnetic tape are not employed or not employed exclusively, there are provisions for entering data via the *manual mode*.

3.12 The manual mode employs the use of a manual keyboard for generating an intermediate medium such as 8-level punched paper tape or a direct keyboard input via the CRT terminal during an update employing operator interaction.

DATA BASE AUDITS

3.13 Periodically an audit of the CAROT 2 and COPB data bases must be performed to ensure consistency in the related records. This audit can be performed at the circuit-order provision bureau or at the CAROT 2 center.

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3.14 If the audit is to be made at the CAROT 2, program options allow the choice of performing an audit of each of the three discrete data bases; ie, RDT, TFTP, and/or CO. The circuit-order provision bureau must prepare and forward to CAROT 2 a magnetic tape representing the specific data base to be audited. CAROT 2 will then run an audit. The hard copy printout generated on the CAROT 2 line printer will contain data base discrepancies detected during audit. This printout must then be forwarded to the COPB. The appropriate data corrections of the indicated errors will then be made at the COPB, and will be added to the next update tape that is sent to CAROT 2.

3.15 If the audit is to be made at the circuit-order provision bureau, CAROT 2 will generate a single tape for each data base; ie, one tape for RDT, one for TFTP, and one for COTC. This tape will then be forwarded to the COPB where the audit will be performed. Discrepancies discovered in the audit process at the COP will then be corrected and added to the next update tape that is sent to CAROT 2.

4. CAROT 2 CENTER—DUTIES

GENERAL

4.01 The CAROT 2 center is responsible for coordinating and/or performing certain tasks related to circuit-order work. This part identifies and describes (in general terms) those areas of operations pertaining to circuit-order activities.

4.02 Specifically the CAROT 2 center will be responsible for performing the following functions:

- (a) Estimate the anticipated circuit-order work load that will be undertaken by CAROT 2 and make the necessary data base space allocations.
- (b) Coordinate acquisition of circuit-order data base updates from the circuit-order provision bureau.
- (c) Establish data base records for plant control offices, new ROTLs and test lines that will be used in the performance of circuit-order testing and completion and subsequent routine demand test activities for new trunk circuits.

- (d) Assign, schedule and distribute schedule management summary reports and arrange for distribution in accordance with local policy.
- (e) Schedule interval for completion notice file and arrange for distribution to plant control offices and the circuit-order provision bureau.
- (f) Schedule interval for summary data register initialization.
- (g) Assign remote-user functions as related to circuit-order completion process responsibilities.
- (h) Designate offices to serve as plant control offices. These PCOs will retain administrative responsibility for circuit-order work.
- (i) Load circuit-order testing and completion data base updates as received from the circuit-order provision bureau.
- (j) Coordinate and perform data base audit procedures and initiate corrections to the data base to satisfy discrepancies detected as a result of the audit.

ANTICIPATED CIRCUIT-ORDER WORK LOAD AND DATA BASE DISC SPACE ALLOCATIONS

4.03 The total data base storage capacity needed to support CAROT System activities is dependent upon the utilization of system features and the extent to which these features are employed.

4.04 For generic 2, the basic system features provide support for the following listed trunk related activities:

- (a) Routine and demand test
- (b) Test frame tape preparation
- (c) Circuit-order testing and completion.

4.05 Procedures for determining the needed disc storage capacity for supporting circuit-order activities are described in paragraphs 2.17 and 2.18. A comprehensive description for estimating total system data base storage capacities are described in EL-5530B and Section 824-101-112 CC1 and CC2 Equipment Design Requirements.

DATA ACQUISITION, DISTRIBUTION, AND COORDINATION

4.06 To administer the CAROT 2 circuit-order data base, a systematic approach involving the following factors should be implemented. This includes the following key concepts:

- (a) Identify data sources
- (b) Determine pre-CAROT circuit-order data flow
- (c) Design revisions to existing trunk data flow and provide for CAROT assistance with circuit-order processing
- (d) Define process for initial acquisition of equipment data as needed to support circuit-order activities.

A. Identifying Data Sources

4.07 Sources of circuit-order data items required by CAROT (as described in Part 7) are available from the traffic and engineering groups involved with the circuit-order process. The specific data item entries made on forms used in a mechanized environment must be correlated with the corresponding data items required by CAROT.

4.08 The information required to access and test trunks can be classified as trunk identification, facility identification, transmission parameters, trunk priming (trunk channel, or pair number and trunk location address), test line, responder and ROTL types, and telephone numbers. The primary sources for this information are as follows:

- (a) Facility and equipment assignment, referred to as engineering circuit design and provision group
- (b) Trunk and common control assignment groups
- (c) Central office operation groups.

B. Identify Pre-CAROT 2 COTC Circuit Data Flow

4.09 For circuit-order activities (performed prior to utilization of CAROT 2 COTC features), identify the sources of authorization orders to add, disconnect, or rearrange trunks, and to cancel or modify previous orders. In addition, it should be determined how supporting information such as

machine appearances, test connector assignments, common control assignments and circuit assignments are obtained and added to the authorization orders. Also, it should be determined how authorization orders are distributed to the plant forces and how completion notices originated by plant forces are transmitted to the responsible traffic and engineering groups. Generally, engineering, assignment, and operating groups forward copies of all circuit layout records, traffic and trunk orders, and in-effect notices together with any changes in test connector assignment, to the circuit-order provision organization functioning as the mechanized data base support group. This data is then compiled and forwarded to the CAROT 2 center via 9-track magnetic tape as an update of the CAROT routine demand test data base.

C. Revise Circuit-Order Flow to Include CAROT 2 COTC Features

4.10 Since coordination of data processing procedures has been well established to support CAROT 2 RDT functions, efforts to include COTC features into the data processing system should be relatively easy.

4.11 To implement the COTC features, the following primary considerations must be addressed:

(a) What is the nature of the existing data processing system; COCS/TIRKS, mechanized, manual, or combination?

(b) Which of the following key COTC features are to be utilized and how are they to be implemented?

- Make circuit-order tests only
- Make circuit-order completions only
- Make circuit-order tests and completions only
- Make circuit-order tests, completions and automatic update of COTC data base only
- Make circuit-order test, completions and automatic update of RDT and TFTP data bases

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- Make circuit-order tests and completions and automatic update of COTC, RDT, TFTP data bases
 - Complete CO or COI via test failure override.
- (c) Plan, and if necessary, modify the structure of the existing data processing system to accommodate those COTC optional features that have been selected.
- (d) Revise as required the restructured system to achieve optimum efficiency in circuit-order and routine demand test data processing operations.

ESTABLISH CIRCUIT-ORDER DATA BASE RECORDS

4.12 Although the CO data base is independent of the RDT and TFTP data bases, there are certain formats that must be followed to ensure compatibility among these three data bases. The distinctive difference between the CO data base and the RDT and TFTP data bases is that the CO data base supports trunks that are in the process of installation or have been completed but not yet turned up for service, while the RDT and TFTP data bases support trunks that are in service.

4.13 Despite the difference in application, the record format of the CO data base must be such that it contains all the information needed to test those trunks that are CAROT testable (can be tested via CAROT System). In addition, the CO data base records must contain information necessary to report completion of all trunks, as well as automatically updating the RDT and TFTP data bases. In summary, this data provides compatibility for providing CO status reporting, preservice testing, automatic completion notification, and automatic update of the CO, RDT, and/or TFTP data bases.

4.14 Supportive records that must be established in the CAROT 2 data base to accommodate CO activities fall into the equipment, administrative and trunk and facility file categories. The specific records that must be entered are listed in Table A.

4.15 Prior to loading the COTC data base records, it must be ascertained that the related supportive equipment and administrative records exist in the RDT and TFTP data bases. If these records do not exist in the data base prior to or

during the loading of CO records, CAROT 2 will reject the attempted CO data inputs. Ordinarily, most of these records will have been previously entered with the exception of the plant control office (CP). Therefore, it will not be necessary to input these records in most cases where CAROT testable trunks are involved. Occasionally, it will be necessary to originate associated equipment, administrative, and trunk and facility records when new central offices and/or test equipment (ROTLs and test lines) are placed in service.

4.16 The capability of performing automatic updates of the CO, RDT and TFTP data bases upon successful completion of a circuit-order activity is inherent in the design of the CAROT 2 software system. Therefore, records that are originated to support COTC operations will be automatically converted to permanent RDT and TFTP records upon inputting a completion report. Automatic updates can only be accomplished if the proper options have been selected in the associated COTC data records.

4.17 A detailed description of the COTC data records and their contents is given in Section 190-102-203 (formerly 190-102-310).

PREPARE COMPLETION NOTICE FILE REPORT

A. General Purpose

4.18 The CNF report is a collection of data compiled by CAROT 2 and contains status information related to circuit order, circuit-order item, and jeopardy reports submitted by remote users. The purpose of this report is to inform the circuit-order provision organization the current status of pending circuit-order work on a continuing (daily) basis. This information is then used to update the COPB records and in turn serve as update data in the subsequent input to CAROT 2, COTC, RDT and TFTP data bases when *no* automatic update is employed. This report is to be prepared daily and forwarded to the COPB by CAROT 2.

B. Tape Formats

4.19 The CNF will be prepared on 9-track magnetic tape. The data density will be either 800 BPI or 1600 BPI, specified in accordance with the CAROT 2/COPB mechanized equipment configurations. The tape format will be standard labeled tape,

TABLE A

CIRCUIT ORDER - SUPPORTIVE DATA BASE RECORDS

EQUIPMENT RECORDS	
CODE	NAME
RE	RESPONDER ID
RO	ROTL ID
OD	TEST LINE OFFICE ID
ID	TEST LINE ID
ED	TEST LINE EQUIP
ADMINISTRATIVE RECORDS	
CODE	NAME
CT	CONTROL OFFICE FOR TRUNKS
RC	ROTL CONTROL OFFICE
CF	CONTROL OFFICE FOR FACILITIES
OT	TEST FRAME OFFICE
CP	CIRCUIT ORDER PLANT CONTROL OFFICE
TRUNK AND FACILITY RECORDS	
CODE	NAME
YG	TRUNK GROUP ID / TEST DATA
YB	ROTL / CONTROL OFFICE ID
YK	TEST FRAME TRUNK GROUP PRIMING
GF	FACILITY GROUP ID
GN	FACILITY GROUP ID - NEW NAME
TG	TRUNK GROUP ID
TF	FACILITY GROUP ID
TH	TRUNK TEST PARAMETERS
TT	TRUNK PRIMING
PC *	CIRCUIT ORDER ID
PV *	CIRCUIT ORDER ITEM ID
PU *	CIRCUIT ORDER ITEM - CANCELED

* Records uniquely identified with circuit order activities

and the data will consist of one file in variable length record format.

4.20 The completion notice file report identifies three specific areas of circuit-order work, circuit-order completion, circuit-order item completion, and jeopardy reports. Detailed information as to

the contents of each of these categories is given in Part 7.

C. Distribution

4.21 Circuit-order completion notification file reports are updated daily and are available

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in the form of magnetic tape and printouts. The medium form is determined by the recipient of the report and is as follows:

Circuit-Order Provision Bureau—Complete CNF available via 9-track magnetic tape. To be forwarded daily from CAROT 2.

Circuit-Order Control (Module for BISP): Complete CNF available via 9-track magnetic tape. To be forwarded daily from CAROT 2.

Plant Control Office: Partial CNF report available via remote-user terminal as display and/or printout. User must have access to use this feature. Report can be obtained on a demand basis. Data displayed is summarized and is related only to the PCO originating the request.

Central Office: Partial CNF as described for PCO will also be available via remote-user terminal for supervision and craft use at central offices.

CAROT 2 Center: Complete CNF report will also be generated (media form?) for use at the CAROT 2 center. This report will contain the same data as the CNF for the COPB. An option allows selection of *immediate CAROT completion* for the reporting period.

MANAGEMENT REPORTS

A. General Purpose

4.22 CAROT 2 provides for the collection of circuit-order management summary data on a plant control office basis. The data collected can be used to track the progress of circuit-order activities on a daily or summary basis.

B. Content

4.23 Circuit-order data displays available for management purposes covering the following work categories are as follows:

- (a) List of all circuit orders assigned per plant control office
- (b) List of all circuit-order items assigned per plant control office
- (c) List of all circuit-order items associated with circuit-order number

- (d) List of circuit-order information for circuit-order item
- (e) List of all previous circuit-order items per circuit-order item
- (f) Management Summary file per plant control office.

Instructions for obtaining copies of the above data are given in Section 190-102-305, Issue 2.

4.24 Statistical data will be compiled per PCO basis for the following applicable circuit-order work categories:

- (a) Start of recording interval
- (b) Present date—ie, report date
- (c) Number of overdue items
- (d) Number of completed items
- (e) Number of completed items adding a circuit
- (f) Number of completed items disconnecting a circuit
- (g) Number of completed items rearranging a circuit
- (h) Number of completed items cancelling a previous item
- (i) Number of uncompleted items
- (j) Number of completed orders needing new data
- (k) Number of completed orders needing test failure override.
- (l) Number of completed orders needing test insufficiency of the CAROT System override.

Report statistic registers can be initialized on a given date for a given PCO or for all PCOs on a given date.

4.25 Data for management summaries can also be grouped, summed, and displayed according to areas of management responsibility as defined by individual TELCOs through the use of the select

and text editor and report program generator programs.

4.26 Instructions for using the select and text editor and report program generator programs to collect circuit-order data are given in Sections 190-102-206 and 190-102-207, respectively.

C. Distribution

4.27 Management results for circuit-order activities are available via console or line printer modes.

AUDIT

A. General

4.28 The CAROT 2 software system contains provisions for performing an audit of that portion of the data base directly pertaining to trunk testing. The audit checks to ensure the required trunk testing information is present and that it is correct. The audit procedure can be totally mechanized, partially mechanized or totally manual, depending on local procedures.

B. Mechanized Data Base Audit

4.29 In a completely mechanized procedure, the operator makes a copy of the data base files (ie, RDT, TFTP and COTC) using the update utility system program ASIN. The copy is in the form of a magnetic tape which is subsequently forwarded to the circuit provision organization (CPO). At the CPO, this tape is compared against an initial load tape (ie, a tape that provides a listing of all trunks that should be in the data base). If any corrections are necessary, the CPO will return a magnetic tape which will be inputted during the regular update cycle.

4.30 The magnetic tape generated by the ASIN program contains the CAROT data base arranged in the same format as the update tapes.

C. Partially Mechanized Data Base

4.31 In a partially mechanized data base audit procedure, the CPO provides the CAROT controller with an initial load of magnetic tape for each data base (ie, RDT, TFTP, and COTC) resident in CAROT. These magnetic tapes are read by CAROT and compared with the information in the controller data bases. The line printer will print

out error information and summary results. A magnetic tape of the error information and summary results can also be made. A copy of the error printout or magnetic tape or both is sent to the CPO. The CPO will make an updated magnetic tape with the appropriate corrections. This updated tape can be inputted during the normal update cycle.

4.32 The following update utility programs are run during the partially mechanized data base audit: AUDIT for RDT data base, AUDFR for TFTP data base, and AUDCO for COTC data base.

D. Manual Data Base

4.33 For a totally manual data base audit procedure, personnel at the CAROT center must constantly scan routine test results for data base errors. In turn, the CAROT center must notify the agency responsible for supplying the original (erroneous) source data and obtain the correct priming data. In addition, periodic comparisons must be made between the CAROT 2 data base, central office records, and any circuit provision organization master lists of CAROT testable trunks.

4.34 For additional information regarding audit procedures refer to Section 190-102-201 (formerly 190-102-311).

REMOTE-USER FUNCTIONS

A. General

4.35 The CAROT center has the responsibility for administering the assignment of remote-user functions in accordance with the charged duties of TELCO personnel to be designated as remote users.

4.36 To assist in the administration of remote-user function assignments, it is recommended that a log be maintained containing the following key elements:

- (a) Control office ID
- (b) User's full name
- (c) User's job assignment (administrative or craft)

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- (d) User number
- (e) User password
- (f) Function code(s) authorized.

For further details regarding other considerations that pertain to the assignment of remote-user functions, see Section 190-102-202.

B. Circuit-Order Functions

4.37 Circuit-order functions can be assigned singly or by groups.

Single functions are as follows:

CD— Allow user to complete items and display CNF of own PCO

CY— Allow user to complete items, display CNF and data for other PCOs

DC— Allow user to change data parameters for completion

DD— Allow user to modify due date of circuit order or circuit-order item completions

JE— Allow user to initiate jeopardy reports

OO— Allow user to complete items out of sequence

OV— Allow user to override a test failure, equipment failure, and/or test line does not exist condition and complete the item.

Group functions are as follows:

CA— Gives user functions CD, JE, OV and OO

CB— Gives user functions CD, CY, DC, DD JE, OO, and OV.

5. PLANT CONTROL OFFICE DUTIES

GENERAL

5.01 The plant control office (PCO) is the administrative center that is responsible for the execution of circuit-order activities. The activities involved, include circuit-order assignment, work effort, testing and completion reporting to meet a scheduled due date.

5.02 Each PCO has charged to it all circuit orders for which it is administratively responsible. Assignments of circuit orders to individual PCOs are made via the plant control office, (CP), records as inputted during COTC data base updates.

FUNCTIONS

5.03 An outline of recommended procedures that the PCO could follow to ensure its administrative responsibilities are met is as follows:

(a) Using the remote-user terminal, obtain the following printout displays:

(1) All circuit orders assigned to the administering PCO

(2) All circuit-order items assigned to the administering PCO.

(b) Review contents of displays, then inform responsible personnel of their pending circuit-order work.

(c) Advise responsible personnel to obtain data displays of circuit-order work to be accomplished at or through their location via their remote-user terminal. The following are displays of interest:

(1) All circuit-order items per circuit order

(2) All circuit-order information for each circuit-order item.

(d) When jeopardy reports appear in circuit-order displays, especially the completion notice file, contact the initiating personnel for a clarification of the circuit-order/item status.

(e) Track the status of circuit-order item completions as indicated in the completion notice file to ensure completion of CO work by the designated due date.

(f) Obtain daily copy of completion notice file, review same, and verify that circuit orders are being completed by the designated due date.

(See Section 190-102-305, Issue 2, COL-050.)

5.04 In general, the PCO functions in the same manner as a control office for trunks.

6. REMOTE-USER DUTIES**GENERAL**

6.01 In addition to normal remote-user functions related to testing and maintaining in-service trunks, there are certain functions dedicated solely to circuit-order processing. This part describes the applications of the remote-user terminal in the processing of circuit-order activities.

6.02 Once the circuit-order data base has been established, the remote user can perform the following functions:

- (a) Obtain copies of pending circuit-order data
- (b) Perform preservice testing on circuits
- (c) Report completion of circuit orders and/or circuit-order items.

6.03 All functions that a remote user is authorized to perform must be assigned by the CAROT 2 center. For example, to enter completed circuit-order work assignments or data changes which are pertinent to administering circuit-order work, such as overriding a test failure condition or a CAROT non-testable condition, the craft must be authorized to employ these options.

6.04 A description of applicable circuit-order remote-user functions is given in Part 4.

DATA DISPLAYS

6.05 There are available several different data displays, with each arranged to show a specified portion of the circuit-order data base. These displays, listed below, are all interrelated and are keyed to the individual plant control office specified.

- (a) All COs assigned per specified PCO
- (b) All COIs assigned per specified PCO
- (c) All COIs associated with specified circuit order
- (d) Circuit-order data for specified COI
- (e) All previous COIs per specified COI

(f) CNF per specified PCO.

(g) Management summary per specified PCO.

6.06 The displays referenced as (a), (b), (f) and (g) are intended chiefly to function as administrative records to assist the PCO in monitoring the progress of circuit-order work for which it is responsible. Displays (c), (d) and (e) are primarily intended for use by the responsible control office personnel to facilitate administrative monitoring of circuit-order work.

DEMAND TESTS

6.07 To verify the satisfactory installation of circuits prior to turnup, the CAROT 2 System can be employed to perform transmission and operational tests. The test of a circuit can be performed on a demand basis before completion is reported and is also an integral part of the CAROT 2 circuit-order completion reporting feature. Failure to pass the specified circuit-order test requirements will block the completion report regarding a circuit, unless certain test failure override features are activated. The following is a description of the tests to be made, the limits against which they are checked, and the results that are available to the control office, plant control office, and circuit-order provision organization personnel.

A. Test Request Conditions

6.08 A demand test of a circuit order or circuit-order item may be entered either as a single request (to be acted upon immediately) or as part of a batch containing several demand test and data base display requests of trunks in service. For a circuit-order/item completion request, (which automatically includes a demand test), this request must be entered via the batch mode. When only one completion request is to be entered, it still must be entered via the batch mode.

6.09 Once a completion entry has been submitted, an estimated completion time will be returned and all other rules for batch requests apply. See Section 190-102-305, Issue 2, for procedures regarding circuit-order demand test requests.

B. Measurements

6.10 When entering a circuit-order/item demand test request any or all of the measurements listed below may be specified.

- (a) Level, 1000 Hz, 0 dBm
- (b) Level, 1000 Hz, -16 dBm
- (c) *Level, 2800 Hz, -16 dBm
- (d) *Level, 400 Hz, -16 dBm
- (e) Background, C-message noise
- (f) *Noise with tone
- (g) Echo return loss
- (h) Singing return loss low end
- (i) Singing return loss high end

The default, if no specific measurements are indicated, will be all of the tests that CAROT can perform in accordance with the type of test equipment available at each end of the trunk being tested. When the above measurements that are marked with an asterisk (*) are requested, level at 1000 Hz, -16 dBm is automatically made since the latter is used as a reference level.

C. Measurement Limits

6.11 For a circuit-order completion or a circuit-order demand test request, the following measurements have limit values assigned for requirements.

- Level, 1000 Hz, 0 dBm

This measurement should not deviate from the EML (expected measured level) by more than the specified circuit-order limit in either direction.

- Level, 1000 Hz, -16 dBm

This measurement should not deviate from the value of (EML-16 dB) by more than the specified circuit-order limit in either direction.

- Level, 2800 Hz, -16 dBm

This measurement should not deviate from the measured 1000 Hz, -16 dBm level by more than the limits specified in Table B. Also, see the discussion under gain slope classes.

- Level, 400 Hz, -16 dBm

This measurement should not deviate from the measured 1000 Hz, -16 dBm level by more than the limits specified in Table B. Also, see the discussion under gain slope classes.

- Background, C-Message Noise

The background, C-message noise measured to a quiet termination should not exceed the specified circuit-order noise limit.

- Noise with Tone

The noise with tone measured should not exceed the limit defined in paragraph 6.14.

- Operational Test

The trunk must pass a test to a standard, available operational test line (103, sync, non-sync) as defined in the standard CAROT test repertoire.

6.12 Gain Slope Class

For purposes of testing to gain slope-order limits, every trunk is considered to be made up of one or two facilities. Each facility is assigned a code (see Table B) and this combination of codes makes up the gain slope class for the trunk. For example, a gain slope class of 4A type channel bank (or equivalently A4) would be made up of nonrepeated cable and an N3 carrier. This gain slope class is then used to determine the circuit-order deviation limits for 400 Hz and 2800 Hz measured gain slope levels according to Table B. The limits are to be interpreted as follows. With respect to the 1000-Hz, -16 dBm level measurement in the same direction, the 4000 Hz, -16 dBm level should not deviate by more than the lower 400-Hz limit (less loss) or by more than the upper 400-Hz limit (more loss). As noted in the table, the limits for combination trunks are found by adding together the limits for the individual facilities making up the trunk. In cases where more than two facilities make up a trunk, the two facilities with the broadest limits should be designated in the gain slope class. In the case where a trunk is made up of a 4A

TABLE B
GAIN SLOPE CIRCUIT ORDER TEST REQUIREMENTS

FACILITY TYPE	GAIN SLOPE CLASS FAC. CODE	LOWER 400 Hz LIMIT	UPPER 400 Hz LIMIT	LOWER 2800 Hz LIMIT	UPPER 2800 Hz LIMIT
Type A channel blank	1	2.5	1.0	2.0	1.0
N1 Carrier	2	2.5	1.0	3.0	1.0
N2 Carrier	3	2.0	1.0	2.5	1.0
N3 Carrier	4	2.0	1.0	2.5	1.0
NR Carrier	5	2.0	1.0	1.5	1.0
0 Carrier	6	3.0	1.0	3.0	1.5
ON Carrier	7	2.5	1.0	3.0	1.0
D1, D2, D3, D4 Channel Bank (Toll)	8	1.5	1.0	2.0	1.0
D1, D2, D3, D4 Channel Bank (Non-toll)	9	2.5	1.0	2.5	1.0
Nonrepeated Cable	A	2.0	1.5	3.0	2.5
E repeated trunks or trunks covered under SD-31674-01 or SD-31734-01	B	4.0	1.5	4.5	1.0
Other repeated cable	C	3.0	1.0	4.5	1.0

Note: All limits are expressed in dB.

Note: For combination trunks (up to 2 facility types per circuit are allowed) the gain slope limits are the sum of the limits for the individual facility types.

type channel bank, a nonrepeated cable, and an N3 Carrier System, the circuit-order gain slope deviation limits are determined as follows. Using Table B, select and compare the applicable deviation

limits. For this case, there are three sets of deviation limits, identified by facility codes, as shown in the listing on Page 20.

FACILITY CODE	LOWER 400 Hz LIMIT	UPPER 400 Hz LIMIT	LOWER 2800 Hz LIMIT	UPPER 2800 Hz LIMIT
1	2.5	1.0	2.0	1.0
4	2.0	1.0	3.0	1.0
A	2.0	1.0	2.5	1.0

6.13 Since more than two facilities made up the trunk in this example, the two facilities affording the broadest 400-Hz limits are designated for the gain slope class. Therefore, the facility codes to be selected in this case are 1 and A. The order for entering the code numbers in the associated TH/TI records is not critical; ie, the code numbers may be entered as 1A or A1.

6.14 Noise With Tone

The noise with tone limit will be entered into the data base as a 2-digit number identifying the minimum permissible signal to noise ratio (eg, 41dB). The maximum permissible noise reading is computed as follows:

$$\text{Max} = \text{Loss at 1000 Hz} - (\text{S/N in dB}) + 90$$

For example, if the level of the 1000-Hz, -16 dBm holding tone is -19 dB and the signal-to-noise ratio is 41 dB, the maximum noise with tone level allowed is 30 dB.

$$30 \text{ dB} = -19 \text{ dB} - (41 \text{ dB}) + 90$$

D. Results and Result Formats

6.15 For each demand test request, the measurement results list the following information.

- (a) Test type requested
- (b) Status of test results (pass or fail)
- (c) ROTL ID
- (d) Test parameters
- (e) Test line type
- (f) Trunk traffic number or channel or wire pair

(g) Test disposition

(h) Measured value of level or noise

(i) Acceptable range of circuit-order measurements.

6.16 A detailed explanation of the test result printout is given in Part 7.

COMPLETION REPORTS

A. General

6.17 When an authorized remote user enters a completion report, the process entails several operations.

- (a) All circuit-order completion requests must be entered via the batch mode of operation. A single completion entry must also be entered via the batch mode.
- (b) The request must specify the circuit order or circuit-order item number.
- (c) For CAROT testable trunks, the system then performs a full set of measurements of the trunk(s) identified with the completion request.
- (d) Test results are then compared against the circuit-order test limits. The craft initiating the completion report is then notified via the terminal and corresponding test results printout as to the disposition of the test (pass or fail).
- (e) The system marks the circuit order or circuit-order item as completed in the circuit-order data base if a pass condition occurs. (If a fail condition occurs the completion activity is terminated.) Subsequent management and scheduling reports will in turn report successful completions.

(f) If the automatic update feature for the routine demand test and test frame, and tape preparation data bases is implemented, the system modifies these data bases during the next run of the update program to include additions, deletions or changes as accomplished via the completion report. This will initiate or terminate demand or routine testing and/or will ensure that erroneous data is not cut into test frame tapes.

(g) The completion is entered into the completion notice file for which reports will be sent to the circuit-order provision organization and the associated plant control office.

B. Completion Tests

6.18 When a completion request for a circuit order or circuit-order item is entered, the following subset of measurements will be performed by CAROT:

(a) Level, 1000 Hz, 0 dbm

(b) Level, 1000 Hz, -16 dBm

(c) Level, 2800 Hz, -16 dBm

(d) Level, 400 Hz, -16 dBm

(e) Background C-message noise

(f) Noise with tone

(g) Test to an operational test line.

As many measurements are made from this set as are possible with existing equipment. The remainder will be returned with a **not equipped** test disposition. For example, in the case of a 51-type responder at either end of the trunk, only measurements (a) and (e) are possible for the transmission test set.

6.19 A list of possible test disposition messages received at the remote terminal as part of the completion report printout are as follows.

STATUS: COMPLETED (NO TESTING INVOLVED)

STATUS: COMPLETED AND PASSED CIRCUIT ORDER LIMITS

STATUS: COMPLETED BY OVERRIDE; EQUIPMENT FAILURE

STATUS: COULD NOT COMPLETE; PLEASE REPORT ERROR (SEGNAME/CODEWORK)

STATUS: COULD NOT COMPLETE; FAILED CIRCUIT ORDER LIMITS

STATUS: COULD NOT COMPLETE; EQUIPMENT FAILURE

STATUS: COULD NOT COMPLETE; ALREADY COMPLETED

STATUS: COULD NOT COMPLETE; HAS BEEN CANCELLED

STATUS: COULD NOT COMPLETE; NOT ALL ITEMS COMPLETED

STATUS: COULD NOT COMPLETE; DUE DATE HAS BEEN PASSED

C. Override Feature

6.20 When a completion request is entered and a failure to complete message is returned, authorized craft personnel may bypass the test failure condition by resubmitting the completion request along with the override command qualifier.

D. Completion Notice File

6.21 Upon successful completion of a circuit-order/item, the completion notice file resident in the CAROT 2 data base is updated to include completions that have been satisfactorily tested and/or reported completed via the override feature.

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This file is sent to the circuit-order provision organization. The file is available in the form of a magnetic tape or printout.

E. Circuit-Order, Routine/Demand Test and Test Frame Tape—Data Base Updates

6.22 Depending on the selected method of maintaining the CAROT data bases (automatic or inhibited updates as described in Part 2), these data bases will be revised in the sequence that is most compatible with local circuit-order administrative procedures. For example, a circuit-order completion may be recorded in the CNF and COTC data bases with the corresponding update of the RDT and TFTP data bases being made via the subsequent RDT/TFTP update tape received at the CAROT center from the circuit-order provision organization. In this case the CNF tape was used to update the mechanized circuit-order control system records first, and then an update tape containing the reported circuit-order completions was generated at the circuit-order provision organization and forwarded to CAROT 2 for entry into the routine demand test and test frame tape data bases.

DETAILED PROCEDURES

6.23 Procedures for entering completion reports are given in Section 190-102-305, Issue 2. Examples of completion reports initiated by the remote user are given in Part 7.

7. INPUT RECORDS AND OUTPUT REPORTS

GENERAL

7.01 This part is intended to familiarize CAROT personnel with the content of the different

input data records and resultant output reports related to circuit-order activities.

INPUT RECORDS

7.02 Input records exclusively identified with circuit-order data are the plant control office (CP), circuit-order control (PC) and circuit-order item (PV or PU). Supportive routine demand test action records are given in Table C.

These records must be entered into the data base along with the exclusive circuit-order records to enable preservice circuit testing, circuit-order completion, and update operations to take place.

7.03 Content listings for the circuit order records are given in Table D, Table E, and Table F. Table G groups the records required for actions on the circuit-order data base. Content listings for the supportive action records are given in Section 190-102-203.

OUTPUT REPORTS

7.04 The output reports resulting from circuit-order activities are the result of message/actions initiated by the remote terminal operator. These messages pertain to three main areas of involvement that the remote user must be concerned with; ie, data displays, preservice demand test of a circuit and circuit-order completion reporting.

**TABLE C
INPUT RECORDS**

RECORD CODE	RECORD SUBJECT/DEFINITION
YG	Initial Record - Trunk Group ID
YB	Initial Record - Control Office and ROTL ID
GF	Initial Record - Facility Group ID
TG	Trunk Group ID
TF	Facility Group ID
TH	Trunk Test Parameters
TT	Trunk Location Address

TABLE D

PLANT CONTROL OFFICE RECORD DEFINITION

CHAR POS	DATA ITEM VALUE	FUNCTION OR MEANING
1	1	Beginning of line.
2-3	CP	Identifies a plant control office record.
4-14		Common Language Location Identification code of the plant control office
15-29		Telephone number and equipment code of the terminal used to disperse test results. Left-justified. See CT record definition (Table J), character positions 15-29, in Section 190-102-203.
30-44		Telephone number and equipment code of the terminal used to disperse management reports. Left-justified. See CT record definition (Table J), character positions 15-29, in Section 190-102-203.
45-52		Date to begin accumulating management summary data on circuit order completion activity.

TABLE E

CIRCUIT ORDER CONTROL RECORD DEFINITION

CHAR POS	DATA ITEM VALUE	FUNCTION OR MEANING
1	1	Beginning of line.
2-3	PC	Identifies a circuit order control record.
4-21		The part of the circuit order layout number which is the same for all items, right-justified.
22-32		Common Language Location Identification code of the plant control office.

7.05 A listing of the various circuit-order remote-user tasks/message entries that result in associated output reports is given in Table H. Figure references to examples of the corresponding output printouts, included in this section, are also given in Table H.

7.06 Additional management-type reports, tailored in accordance with individual TELCO needs, can be formulated and obtained using the select and edit and report program generator programs. Instructions for using these programs are given in Sections 190-102-206 and 190-102-207, respectively.

TABLE F

CIRCUIT ORDER ITEM RECORD DEFINITION

CHAR POS	DATA ITEM VALUE	FUNCTION OR MEANING
1	1	Beginning of line.
2-3	PV	Record concerns a circuit order which is to be added, deleted, or changed in the CAROT 2 circuit order testing data base.
	PU	Record identifies a circuit order which is canceled upon the completion of the circuit order identified by the previous PV record.
4-25		The circuit layout order (CLO) number of the item concerning a specific circuit.
26*	A	The CLO item adds a circuit.
	C	The CLO item rearranges a circuit.
	D	The CLO item disconnects a circuit.
	K	The CLO item cancels a previous circuit order item.
27	C	The CLO item applies to a circuit (trunk).
	F	The CLO item applies to a facility.
	O	The CLO item applies to neither a trunk nor a facility — No RDT action data is associated with it.
28	Ø	Circuit cannot be circuit order demand-tested by CAROT 2.
	1	Circuit can be circuit order demand-tested by CAROT 2.
29	Ø	Circuit order completion cannot be done through CAROT 2.
	1	Circuit order completion can be done through CAROT 2.
	2	Item is to be immediately completed by CAROT 2.
30	Ø	Do not update CAROT 2 COTC data base automatically upon completion.
	1	Update CAROT 2 COTC data base automatically upon completion.
31	Ø	Do not update CAROT 2 RDT and/or TFTP data base automatically upon completion.
	1	Update CAROT 2 RDT data base automatically upon completion.
32-29		Date when circuit order is due to be completed in ØØ / ØØ / ØØ format.
40-41		Leave blank — this position is not utilized at this time.
42-63		The CLO number of the most recently issued previous order against this circuit

* If the type of item is O (other), no action data applies.

Go to character position 27 for meaning of the O.

TABLE G

RECORDS REQUIRED FOR ACTIONS ON CAROT CIRCUIT ORDER DATA BASE

RECORD NAME	RECORD CODE	FUNCTION OR MEANING
Action	AD, DE, or CH	Adds circuit orders to the circuit order data base, deletes orders from the circuit order data base, or changes orders in the circuit order data base.
Circuit Order Plant Control Office	PC	Identifies the whole circuit order, which may be composed of many items, and the plant control office responsible for it.
Action	AP, DP, or CP	Replaces AD, DE, or CH when the action is a pending addition, deletion, or change.
Facility Group, Trunk Group, and/or Trunk Transaction	GF (or GN), TG, TF, TH (or TI), and/or TT (or TL)	Set of records comprising legitimate actions on one or more trunks, trunk groups, and/or facility groups as established in the PC record.
Circuit Order Item	PV	Identifies the circuit order item related to the previous set of transactions.
Circuit Order Item	PU	Identifies the circuit order item to be canceled by this order. Optional record.

Note: Repeat the above circuit order data base transactions as required for additional circuit order activities.

TABLE H
TASK AND MESSAGE ENTRIES

REMOTE – USER TERMINAL INPUT/OUTPUT REPORTS	FIGURE REFERENCE
List of All Circuit Orders Assigned Per Plant Control Office	2
List of All Circuit Order Items Assigned Per Plant Control Office	3
List of All Circuit Order Items Associated With Circuit Order Number	4
List of Circuit Order Information for Circuit-Order Item	5
List of Previous Circuit Order Items Per Circuit Order Item	6
Completion Notice File Per Plant Control Office	7
Demand Test of Single Circuit Order Item	8
Demand Test of Single Circuit Order Item – With Parameter Changes	9
Demand Test of Several Circuit Order Items – Associated With Same Circuit Order	10
Demand Test of Specified Circuit Order	11
Demand Test of Specified Circuit Order – With Parameter Changes	12
Complete Circuit Order Items(s) – CAROT Testable	13
Complete Circuit Order Items(s) – CAROT Testable – With Parameter Changes (Including Test Failure Override)	14
Complete Specified Circuit Order	15
Complete Specified Circuit Order – With Indicated Parameter Changes (Including Test Failure Override)	16
Complete CAROT Nontestable Circuit Order Item	17
Complete CAROT Nontestable Circuit Order	18
Management Summary Report per Plant Control Office	19

- ① Request entered by user specifying a display of circuit orders (by number) of all circuit orders assigned to plant control office whose common language identification is BKFDCA01B0.
- ② Response from CAROT controller listing all circuit-order numbers (6 digits) followed by a number representing the quantity of items comprising the circuit order. Where 210041 is the circuit order number and the following 0007 represents the number of items contained in the first circuit order.
- ③ The prompter (?) meaning CAROT is done and is waiting for another instruction.

①	*DISPLAY:CKTO.PCO=BKFDCA01B0
	210041 0007
	103452 0003
②	153784 0036
	103431 0005
	112499 0003
③	114721 0006
	?

Fig. 2—Sample Printout with Explanation—List of All Circuit Orders Assigned per Plant Control Office

- ① Request specifying a display of all circuit-order items assigned to plant control office whose CLLI is BKFDCA01B0.
- ② /PC--Record identification containing the circuit-order number (153784) and plant control office CLLI (BKFDCA01B0).
- ③ /AP--Action statement for adding pending file /YG.
- ④ /YG--Record containing trunk group identification where IH33IT is the trunk type, BKFDCA0130T is the originating office "A", M- is the pulsing, and FRSNCA0144TA is the terminating office "Z."
- ⑤ /YB--Record containing the control office CLLI (BKFDCA01B0), ROTL/FETL identification office "A" (BKFDCA0130T) and ROTL/FETL identification office "Z" (FRSNCA0144T).
- ⑥ /AP--Action statement for adding pending file /TG.
- ⑦ /TG--Record containing trunk group CLLI.
- ⑧ /TF--Record containing facility group CLFI.
- ⑨ /TH--Record containing direction, traffic use, and testing parameters.
- ⑩ /TT--Record containing direction, traffic use, and trunk identification.
- ⑪ /PV--Record containing circuit-order and item 153784 36 identification, circuit layout, and CAROT testing/completion data.
- ⑫ Test disposition message.
- ⑬ Second item data - same as Steps 1 through 12.
- ⑭ Same as Step ⑬.

NOTE: For further details about each record type, refer to Section 190-102-203.

```

① -----*DISPLAY:ITEM.POC=BKFDCA01B0
② -----/PC          153784BKFDCA01B0
③ -----/AP
④ -----/YGIH33IT      BKFDCA0130T M- FRSNCA0144T A
⑤ -----/YBBKFDCA01B0 BKFDCA0130T@FRSNCA0144T
⑥ -----/AP
⑦ -----/TGIH33IT      BKFDCA0130T M- FRSNCA0144T A
⑧ -----/TF  640N2      BKFDCA01  FRSNCA01
⑨ -----/TH0IT9200009045052630  03  99
⑩ -----/TT0IT2045 000020151400  0
⑪ -----/PV          153784 36 AC111006/04/78
⑫ -----COMPLETED = NO  CANCELLED= NO

⑬ -----/PC          153784BKFDCA01B0
      /AP
      /YGIH33IT      BKFDCA0130T M- FRSNCA0144T A
      /YBBKFDCA01B0 BKFDCA0130T@FRSNCA0144T
      /AP
      /TGIH33IT      BKFDCA0130T M- FRSNCA0144T A
      /TF  1050N2      BKFDCA01  FRSNCA01
      /TH0IT9200009045052630  03  99
      /TT0IT2044 000010140400  0
      /PV          153784 35 AC111006/04/78
      -----COMPLETED = NO  CANCELLED= NO

⑭ -----/AP
      /YGIH33IT      BKFDCA0130T M- FRSNCA0144T A
      /TF  640N2      BKFDCA01  FRSNCA01
      /TH0IT9200009045052630  03  99
      /TT02043 000010151300  0
      /PV          153784 34 AC111006/04/78
      -----COMPLETED = NO  CANCELLED= NO
    
```

Fig. 3—Sample Printout with Explanation—List of All Circuit Order Items Assigned per Plant Control Office

- ① Display request for all circuit-order items associated with a specified circuit-order number.
- ② /PC--Record identification containing the circuit-order number 153784 and plant control office CLLI BKFDCA01B0.
- ③ /AP--Action statement for adding pending file /YG.
- ④ /YG--Record containing trunk group identification where IH33IT is the trunk type, BKFDCA0130T is the originating office "A", M- is the pulsing, and FRSNCA0144TA is the terminating office "Z."
- ⑤ /YB--Record containing the control office CLLI BKFA01B0, ROTL/FETL identification office "A" BKFDA0130TO and ROTL/FETL identification office "Z" FRSNCA0144T.
- ⑥ /AP--Action statement for adding pending file /TG.
- ⑦ /TG--Record containing trunk group CLLI.
- ⑧ /TF--Record containing facility group CLFI.
- ⑨ /TH--Record containing direction, traffic use, and testing parameters.
- ⑩ /TT--Record containing direction, traffic use, and trunk identification.
- ⑪ /PV--Record containing circuit-order identification and completion date.
- ⑫ Test disposition message.
- ⑬ Second item data - same as Steps 1 through 12.
- ⑭ Same as Step ⑬.

NOTE: For further details about each record type, refer to Section 190-102-203.

```

① ---? *DISPLAY:ITEM.CKTO=210041
② ---/PC          210041BKFDCA01B0
③ ---/AP
④ ---/YGIH33IT      BKFDCA0130T MM SNFCCA0141T A
⑤ ---/YBBKFDCA01B0 BKFDCA0130T@SNFCCA0141T
⑥ ---/AP
⑦ ---/TGIH33IT      BKFDCA0130T MM SNFCCA0141T A
⑧ ---/TF
⑨ ---/TH0IT9201009051053340      03      99
⑩ ---/TT0IT0029      1190203      0
⑪ ---/PV          210041 01 AC111008/18/78
⑫ ---COMPLETED = NO      CANCELLED= NO
    /PC          210041BKFDCA01B0
    /AP
    /YGIH33IT      BKFDCA0130T MM SNFCCA0141T A
    /YBBKFDCA01B0 BKFDCA0130T@SNFCCA0141T
    /AP
⑬ ---/TGIH33IT      BKFDCA0130T MM SNFCCA0141T A
    /TF
    /TH0IT9201009051053340      03      99
    /TT0IT0029      1190203      0
    /PV          210041 02 AC111008/18/78
    COMPLETED = NO      CANCELLED= NO
    /PC          210041BKFDCA01B0
    /AP
    /YGIH33IT      BKFDCA0130T MM SNFCCA0141T A
    /YBBKFDCA01B0 BKFDCA0130T@SNFCCA0141T
    /CP
⑭ ---/TGIH33IT      BKFDCA0130T MM SNFCCA0141T A
    /TF 4A          BKFDCA01 SNFCCA01
    /TH0IT9201009051053340      03      99
    /TT0IT0002 000121191903      0
    /PV          210041 03 CC111008/18/78
    COMPLETED = NO      CANCELLED= NO
    /PC          210041BKFDCA01B0
    *** BREAK ***
    STOP
    ? BYE
  
```

Fig. 4—Sample Printout with Explanation—List of all Circuit-Order Items Associated with Circuit-Order Number

- ① Display request for all circuit-order information pertaining to a specified circuit-order item.
- ② /PC--Record identification containing the circuit-order number 21004 and plant control office CLLI BKFDCA01B0.
- ③ /AP--Action statement for adding pending file /YG.
- ④ /YG--Record containing trunk group identification where IH33IT is the trunk type, BKFDCA0130T is the originating office "A", M- is the pulsing, and SNFCCA0141TA is the terminating office "Z."
- ⑤ /YB--Record containing the control office CLLI BKFDCA01B0, ROTL/FETL identification office "A" BKFDCA0130T0 and ROTL/FETL identification office "Z" FRSNCA0141T.
- ⑥ /CP--Record containing plant control office CLLI.
- ⑦ /TG--Record containing trunk group CLLI.
- ⑧ /TF--Record containing facility group CLFI.
- ⑨ /TH--Record containing direction, traffic use, and testing parameters.
- ⑩ /TT--Record containing direction, traffic use, and trunk identification.
- ⑪ /PV--Record containing circuit-order identification and completion date.
- ⑫ Test disposition message.

NOTE: For further details about each record type, refer to Section 190-102-203.

```

① ----- ? *DISPLAY:ITEM=210041/05
② ----- /PC          210041BKFDCA01B0
③ ----- /AP
④ ----- /YGIH33IT      BKFDCA0130T M- SNFCCA0141T A
⑤ ----- /YBBKFDCA01B0 BKFDCA0130T0FRSNCA0141T
⑥ ----- /CPBKFDCA01B0
⑦ ----- /TGIH33IT      BKFDCA0130T M- SNFCCA0141T A
⑧ ----- /TF  51A        BKFDCA0130TSNFCCA0141T
⑨ ----- /TH0IT9201009051053340      03      99
⑩ ----- /TT0IT0007 000111181103      0
⑪ ----- /PV          210041 05 CC111008/18/78
⑫ ----- ?          COMPLETED = NO      CANCELLED= NO
  
```

Fig. 5—Sample Printout with Explanation—List of Circuit Order Information for Circuit Order Item

- ① Display request for list of all previous circuit-order items per circuit-order item number.
- ② /PC--Plant control record identification containing the circuit-order number 153784 and plant control office CLLI BKFDCA01B0.
- ③ /AP--Action statement for adding pending file /YG.
- ④ /YG--Record containing trunk group identification where IH33IT is the trunk type, BKFDCA0130T is the originating office "A", M- is the pulsing, and FRSNCA0144TA is the terminating office "Z."
- ⑤ /YB--Record containing the control office CLLI (BKFDCA01B0), ROTL/FETL identification office "A" (BKFDCA0130T0) and ROTL/FETL identification office "Z" (FRSNCA0144T).
- ⑥ /AP--Action statement for adding pending file /TG.
- ⑦ /TG--Record containing trunk group CLLI.
- ⑧ /TF--Record containing facility group CLFI.
- ⑨ /TH--Record containing direction, traffic use, and testing parameters.
- ⑩ /TT--Record containing direction, traffic use, and trunk identification.
- ⑪ /PV--Record containing circuit-order identification and completion date.
- ⑫ Test disposition message.

NOTE: For further details about each record type, refer to Section 190-102-203.

```

①----- ? *DISPLAY:PREV.ITEM=153784/13
②----- /PC          153784BKFDCA01B0
③----- /AP
④----- /YGIH33IT      BKFDCA0130T M- FRSNCA0144T A
⑤----- /YBBKFDCA01B0 BKFDCA0130T0FRSNCA0144T
⑥----- /AP
⑦----- /TGIH33IT      BKFDCA0130T M- FRSNCA0144T A
⑧----- /TF  860N2      BKFDCA01  FRSNCA01
⑨----- /TH0IT920009045052630  03  99
⑩----- /TT0IT2033 000030910600  0
⑪----- /PV          153784 13 AC111005/15/78
⑫-----          COMPLETED = NO  CANCELLED= NO
          ?
    
```

Fig. 6—Sample Printout with Explanation—List of all Previous Circuit—Order Items per Circuit Order Item

- ① REQUEST FOR COMPLETION NOTICE FILE FOR SPECIFIED PLANT CONTROL OFFICE AS ON RECORD FOR DAY OF REQUEST
- ② CIRCUIT ORDER COMPLETION DATA PER ITEM NUMBER
- ③ ASSOCIATED TEST RESULTS DATA (SEE FIG. 8 FOR DETAILS).
- ④ OVERALL CIRCUIT ORDER STATUS.

```

① ----- *DISPLAY:CNF.PCO=BKCA01X0

                                     COMPLETION NOTICE FILE

PCO ID =      BKCA01X0                                     WED 11/29/78

② -----
ITEM NO.      =      184936 13
USER NO.      = 99      COMPLETED ON WED 11/29/78
UPDATED FLAG  = NO     TEST RESULT CODE = 5
TEST FAIL OVERRIDE = NO DATA CHANGE    = NO

SNFCCA0301T0
OTG 6 2 5.0 1.0 1.5 2.0 2.5 3.0 20 1
105
305 00083 ANS 1502810250037
③ -----
LEVEL - 5.2 (- 4.0/- 6.0) - 5.6 (- 4.0/-6.0)
L1000 ----- (-20.0/-22.0) ----- (-20.0/-22.0)
L2800 ----- (-09.8/P70.0) ----- (-09.8/P70.0)
L400 ----- ( / ) ----- ( / )
NOISE ... (20) ... (20)
/T --- (91) --- (-0)
NO OPERATIONAL TEST LINE

④ -----
CIRCUIT ORDER NO. =      184936
USER NO.          = 99      COMPLETED ON WED 11/29/78
    
```

Fig. 7—Sample Printout with Explanation—Completion Notice File Per Plant Control

- ① Test request for demand test of a single circuit order item where 206346 is the circuit-order number and/15 identifies the item number.
- ② CAROT response showing estimated completion time when test results will be available.
- ③ CAROT response showing that testing has started.
- ④ CAROT announcement that testing has been completed and results are ready.
- ⑤ Operator command requesting all test results.

Test Results Step ⑥ through Step ⑱ .

- ⑥ Batch number followed by repeat of initial request as explained in Step ① .
- ⑦ Overall status report on test results.
- ⑧ ROTL office ID.
- ⑨ Test parameters where:
 - OTG Direction and Traffic use.
 - 9 Impedance (900 ohms).
 - 2 Test pad value (0 dB).
 - 5.1 EML (expected measured loss) in dB.
 - 0.5 Circuit-Order level limit in dB.
 - 1.5 Upper 400-Hz Circuit-Order Limit in dB.
 - 2.0 Lower 400-Hz Circuit-Order Limit in dB.
 - 2.5 Upper 2800-Hz Circuit-Order Limit in dB.
 - 3.0 Lower 2800-Hz Circuit-Order Limit in dB.
 - 28 Circuit-Order Noise Limit in DBrnC.
 - 41 Circuit-Order noise with tone limit expressed as a signal to noise ratio.

- ⑩ Transmission Test Line Type (102).
- ⑪ Trunk Traffic number, 036, channel or wire pair number, 00022, test disposition, ANS, and ROTL trunk priming.
- ⑫ Near-end received level, -4.7, at 1000-Hz, 0dBm, followed by corresponding circuit-order limits in brackets. Far-end received level, -5.6 at 1000-Hz, 0dBm, followed by corresponding circuit order limits in brackets.

```

① --? *TEST:ITEM=206346/15
② --EST. COMPLETION: 15:24 PDT
③ --TESTING HAS STARTED
   ?
④ --** RESULTS ARE READY ***
⑤ --? BATRS:ALL
⑥ -- 1. *TEST:ITEM=206346/15
⑦ --*** STATUS: TESTED CIRCUIT PASSED CIRCUIT ORDER LIMITS ***
⑧ --FRSNCA0126T0
⑨ --0TC 9 2 5.1 0.5 1.5 2.0 2.5 3.0 28 41
⑩ --102
⑪ --036 00022 ANS 1200708102950
⑫ --LEVEL - 4.7 (- 4.6/- 5.6) -5.6 (- 4.6/- 5.6)
⑬ --L1000 ----- (-20.6/-21.6) ----- (-20.6/-21.6)
⑭ --L2800 ----- (-09.8/-P70.0) ----- (-09.8/P70.0)
⑮ --L400 ----- ( / ) ----- ( / )
⑯ --NOISE ... (28) ... (28)
⑰ --N/T --- (91) --- (91)
⑱ --SYN
⑲ --036 00022 ANS 3101000020260404105
⑳ --F (TO-2/6)
   ?
    
```

- ⑬ to ⑮ Gain slope measurements for 1000, 2800, and 400 Hz at -16 dBm, performed in the sequence described in Step ⑫ .
- ⑯ Measured background, C-message noise followed by upper limit in brackets for near-end and far-end respectively. .. indicates noise level below measuring capability of test equipment.
- ⑰ Measured noise with tone, same format as Step ⑯ .
- ⑱ Operational test line type, when used.
- ⑲ Same as Step ⑪ but with operational test line ROTL priming.
- ⑳ Results of operational test. This test failed. (F) due to a timeout (TO) because only two tones were received in the time slot when six were expected.

Fig. 8—Sample Printout with Explanation—Demand Test of Single Circuit—Order Item

- ① Test request for demand test of a single circuit-order item where 105336 is the circuit-order number and/05 identifies the item number. (change of impedance value to 600 ohms is indicated by IMP=6).
 - ② CAROT response showing estimated completion time when test results will be available.
 - ③ CAROT response showing that testing has started.
 - ④ CAROT announcement that testing has been completed and results are ready.
 - ⑤ Operator command requesting all test results.
- Test Results Step ⑥ through Step ⑱ .
- ⑥ Batch number followed by repeat of initial request as explained in Step ① .
 - ⑦ Overall status report on test results.
 - ⑧ ROTL office ID.
 - ⑨ Test parameters where:
 - OTG Direction and Traffic use.
 - 6 Impedance (600 ohms).
 - 2 Test pad value (0 dB).
 - 5.0 EML (expected measured loss) in dB.
 - 1.0 Circuit-order level limit in db.
 - 1.5 Upper 400-Hz circuit-order limit in dB.
 - 2.0 Lower 400-Hz circuit-order limit in dB.
 - 2.5 Upper 2800-Hz circuit-order limit in dB.
 - 3.0 Lower 2800-Hz circuit-order limit in dB.
 - 20 Circuit-order noise limit in DBrnC.
 - 41 Circuit-order noise with tone limit expressed as a signal to noise ratio.
 - ⑩ Transmission Test Line Type.
 - ⑪ Trunk Traffic number (305) channel or wire pair number (00083), test disposition (ANS), and ROTL trunk priming.
 - ⑫ Near-end received level, -5.2, at 1000-Hz, 0dBm, followed by corresponding circuit-order limits in brackets. Far-end received level, -5.6, at 1000-Hz, 0dBm, followed by corresponding circuit-order limits in brackets.

```

① --? *TEST:ITEM=105336/05,IMP=6
② --TEST. COMPLETION: 16:34 PDT
③ --TESTING HAS STARTED
?
④ --*** RESULTS ARE READY ***
⑤ --? BATRS:ALL
⑥ -- 1. *TEST:ITEM=105336/05,IMP=6
⑦ --*** STATUS: TESTED CIRCUIT PASSED CIRCUIT ORDER LIMITS ***
⑧ --SNFCCA030IT0
⑨ --0TG 6 2 5.0 1.0 1.5 2.0 2.5 3.0 20 41
⑩ --105
⑪ --305 00083 ANS 1502810250037
⑫ --LEVEL - 5.2 (- 4.0/- 6.0) - 5.6 (- 4.0/- 6.0)
⑬ --L1000 ----- (-20.0/-22.0) ----- (-20.0/-22.0)
⑭ --L2800 ----- (-09.8/-P70.0) ----- (-09.8/P70.0)
⑮ --L400 ----- ( / ) ----- ( / )
⑯ --NOISE ... (20) ... (20)
⑰ --/T --- (91) --- (91)
⑱ --NO OPERATIONAL TEST LINE
?
    
```

- ⑬ to ⑮ Gain slope measurements for 1000, 2800, and 400 Hz at -16 dBm, performed in the sequence described in Step ⑫.
- ⑯ Measured background, C-message noise followed by upper limit in brackets for near-end and far-end respectively. .. indicates noise level below measuring capability of test equipment.
- ⑰ Measured noise with tone, same format as Step ⑯ .
- ⑱ Operational test line type, when used.

Fig. 9—Sample Printout with Explanation—Demand Test of Single Circuit-Order Item—with Parameter Changes

- ① Non-batch demand test request specifying several circuit-order items all of which are part of the same circuit-order.
 - ② CAROT responds with confirmation message consisting of a listing of the items specified in the initial test request.
 - ③, ④ CAROT response showing estimated completion time of tests and that testing has started.
 - ⑤ CAROT announcement that testing is completed and results are ready.
 - ⑥ Operator command requesting all test results.
- Test results Step ⑦ through Step ⑩ .
- ⑦ Message repeating initial test request.
 - ⑧ ROTL ID test status, and circuit-order test parameters associated with items, /01. See FIG. 8 for content explanation of printout with test parameters.
 - ⑨ Item /03 test results
 - ⑩ Item /05 test results.
 - ⑪ Item /16 test results. Observe that a successful test was performed on this circuit.

NOTE: See FIG. 8 for detailed explanation of circuit-order test results.

```

?
① *TEST:ITEM=105336/(01,03,05,16)
  TEST:ITEM=      105336/ 01
②  TEST:ITEM=      105336/ 03
  TEST:ITEM=      105336/ 05
  TEST:ITEM=      105336/ 16
③  TEST. COMPLETION: 16:48 PDT
④  TESTING HAS STARTED
?
⑤  ** RESULTS ARE READY ***
⑥  ? BATRS:ALL
⑦  1. *TEST:ITEM=105336/(01,03,05,16)
   { TEST:ITEM=      105336/ 01
   *** STATUS: COULD NOT TEST; TRUNK COULD NOT BE ACCESSED ***
   SNFCCA030IT0
   0TG 9 2 5.0 1.0 *** ** 20 **
   105
   301 00125 BUSY 1502808250037
   NO OPERATIONAL TEST LINE
   TEST:ITEM=      105336/ 03
   *** STATUS: COULD NOT TEST; TRUNK COULD NOT BE ACCESSED ***
   SNFGCA030IT0
   0TG 9 2 5.0 1.0 *** ** 20 **
⑨  105
   303 00747 BUSY 1502809250037
   NO OPERATIONAL TEST LINE
   TEST:ITEM=      105336/ 05
   *** STATUS: COULD NOT TEST; TRUNK COULD NOT BE ACCESSED ***
   SNFCCA030IT0
   0TG 9 2 5.0 1.0 *** ** 20 **
⑩  105
   305 00003 BUSY 1502808250037
   NO OPERATIONAL TEST LINE
   TEST:ITEM=      105336/ 16
   *** STATUS: TESTED CIRCUIT PASSED CIRCUIT ORDER LIMITS ***
   SNFCCA030IT0
   0TG 9 2 5.0 1.0 *** ** 20 **
⑪  105
   316 01327 ANS 1502908250037
   LEVEL - 5.0 (- 4.0/- 6.0) - 5.4 (- 4.0/- 6.0)
   L1000 ----- (-20.0/-22.0) ----- (-20.0/22.0)
   L2800 ----- (-V9.8/P70.0) ----- (-V9.8/P70.0)
   L400  ----- ( / ) ----- ( / )
   NOISE  -- (20) ----- (20)
   N/T   --- (91) ----- (91)
   NO OPERATION TEST LINE
?

```

Fig. 10—Sample Printout with Explanation—Demand Test of Several Circuit-Order Items—Associated with Same Circuit-Order

- ① Non-batch demand test request specifying specifying a single circuit order (105336).
- ② CAROT response, listing of all items comprising the circuit order.
- ③ CAROT response showing estimated completion time.
- ④ CAROT response showing testing has started.
- ⑤ CAROT announcement that testing is completed and results are ready.
- ⑥ Operator command requesting all test results.
- ⑦ CAROT response to operator request in Step ⑥. This message is a repeat of the initial request made in Step ①.
- ⑧ Test results for first item in circuit order (105336/01).
- ⑨ Test results for last item in circuit order (105336/25).

NOTE:
See FIG. 8 for detailed explanation of circuit-order test results.

```

①----- *TEST:CKTO=105336
          TEST:CKTO.ITEM=      105336/ 01
          TEST:CKTO.ITEM=      105336/ 02

②----- TEST:CKTO.ITEM=      105336/ 23
          TEST:CKTO.ITEM=      105336/ 24
          TEST:CKTO.ITEM=      105336/ 25

③----- TEST. COMPLETION: 09:35 PDT

④----- TESTING HAS STARTED
          ?

⑤----- ** RESULTS ARE READY ***

⑥----- ? BATRS:ALL

⑦----- 1. *TEST:CKTO=105336
          TEST:CKTO.ITEM=      105336/ 01
          *** STATUS: TESTED CIRCUIT PASSED CIRCUIT ORDER LIMITS ***
          SNFCCA030IT0
          0TG 9 2 5.0 1.0 *** ** * 20 **
          105
          301 00125 ANS 1502808250037
          LEVEL - 5.0 (- 4.0/- 6.0) - 5.4 (- 4.0/- 6.0)
          L1000 ----- (-20.0/-22.0) ----- (-20.0/-22.0)
          L2000 ----- (-V9.8/P70.0) ----- (-V9.8/P70.0)
          L4000 ----- ( / ) ----- ( / )
          NOISE ... (20) --- (20)
          N/T --- (91) --- (-0)
          NO OPERATIONAL TEST LINE
          TEST:CKTO.ITEM=      105336/ 02
          *** STATUS: COULD NOT TEST; TRUNK COULD NOT BE ACCESSED ***

          TEST:CKTO.ITEM=      105336/ 24
          *** STATUS: COULD NOT TEST; TRUNK COULD NOT BE ACCESSED ***
          SNFCCA030IT0
          0TG 9 2 5.1 1.0 *** ** * 20 **
          105
          324 01159 RO 1502808250037
          NO OPERATIONAL TEST LINE
          TEST:CKTO.ITEM=      105336/ 25
          *** STATUS: TESTED CIRCUIT FAILED CIRCUIT ORDER LIMITS ***
          SNFCCA030IT0
          0TG 9 2 5.1 1.0 *** ** * 20 **
          105
          325 01160 ANS 1502808250037
          LEVEL - 6.1 (- 4.1/- 6.1) - 6.4 (- 4.1/- 6.1) F
          L1000 ----- (-20.1/-22.1) ----- (-20.1/22.1)
          L2800 ----- (-V9.8/P70.0) ----- (-V9.8/P70.0)
          L4000 ----- ( / ) ----- ( / )
          NOISE ... (20) --- (20)
          N/T --- (91) --- (-0)
          NO OPERATIONAL TEST LINE
          ?
    
```

Fig. 11—Sample Printout with Explanation—Demand Test of Specified Circuit-Order

- ① Non-Batch demand test request specifying a single circuit order with and indicated parameter change in impedance value to 600 ohms.
- ② CAROT response, listing of all items comprising the circuit order.
- ③ CAROT response showing estimated completion time for test.
- ④ CAROT response showing testing has started.
- ⑤ CAROT announcement that test results are available.
- ⑥ Operator command **BATRS:ALL** requesting test results.
- ⑦ CAROT response to operator request in Step ⑥. This message is a repeat of the initial request made in Step ①.
- ⑧ Test results for first item in circuit order 105336/01.
- ⑨ Test results for last item in circuit order 105336/25.

NOTE: See FIG. 8 for detailed explanation of circuit-order test results.

```

① *TEST:CKTO=105336,IMP=6
TEST:CKTO.ITEM= 105336/ 01
TEST:CKTO.ITEM= 105336/ 02

②
TEST:CKTO.ITEM= 105336/ 23
TEST:CKTO.ITEM= 105336/ 24
TEST:CKTO.ITEM= 105336/ 25

③ TEST. COMPLETION: 09:35 PDT
④ TESTING HAS STARTED
?
⑤ ** RESULTS ARE READY ***
⑥ ? BATRS:ALL
⑦ 1. *TEST:CKTO=105336,IMP=6
TEST:CKTO= 105336/ 01

*** STATUS: TESTED CIRCUIT PASSED CIRCUIT ORDER LIMITS ***
SNFCCA030IT0
0TG 9 2 5.0 1.0 *** ** ** ** 20 **
105
301 00125 ANS 1502808250037
LEVEL - 5.0 (- 4.0/- 6.0) - 5.4 (- 4.0/- 6.0)
L1000 ----- (-20.0/-22.0) ----- (-20.0/-22.0)
L2800 ----- (-V9.8/P70.0) ----- (-V9.8/P70.0)
L400 ----- ( / ) ----- ( / )
NOISE ... (20) ... (20)
N/T --- (91) --- (91)
NO OPERATION TEST LINE
TEST:CKTO.ITEM= 105336/ 02
*** STATUS: COULD NOT TEST; TRUNK COULD NOT BE ACCESSED ***

TEST:CKTO.ITEM= 105336/ 24
*** STATUS: COULD NOT TEST; TRUNK COULD NOT BE ACCESSED ***
SNFCCA030IT0
0TG 9 2 5.0 1.0 *** ** ** ** 20 **
105
324 01159 RO 1502808250037
NO OPERATIONAL TEST LINE
TEST:CKTO.ITEM= 105336/ 25
*** STATUS: TESTED CIRCUIT PASSED CIRCUIT ORDER LIMITS ***
SNFCCA030IT0
0TG 9 2 5.0 1.0 *** ** ** ** 20 **
105
325 01160 ANS 1502808250037
LEVEL - 6.1 (- 4.1/- 6.1) - 6.4 (- 4.1/- 6.1) F
L1000 ----- (-20.1/-22.1) ----- (-20.1/22.1)
L2800 ----- (-V9.8/P70.0) ----- (-V9.8/P70.0)
L400 ----- ( / ) ----- ( / )
NOISE ... (20) ... (20)
N/T --- (91) --- (91)
NO OPERATIONAL TEST LINE
?

```

Fig. 12—Sample Printout with Explanation—Demand Test of Specified Circuit-Order with Parameter Changes

- ① Batch request to complete four circuit-order items associated with the same circuit-order.
- ② CAROT response, listing of all items specified in the initial request.
- ③ Operator entered command (SUBMIT) indicating input message is completed and CAROT can begin to process the request.
- ④ CAROT response showing estimated completion time.
- ⑤ CAROT response showing that testing has started.
- ⑥ CAROT announcement that testing and indicated circuit-order activities have been accomplished.
- ⑦ Operator command requesting results.
- ⑧ CAROT response to operator request in Step ⑦. This message is a repeat of the initial request made in Step ①.
- ⑨ Results of completion request for first item (210041/01)
- ⑩, ⑪ Results for second and third items specified in the initial request.
- ⑫ Results for fourth and last item specified in initial request. Observe that this item was the only item of the four submitted that was completed.

NOTE:

See FIG. 8 for detailed explanation of circuit-order test results.

```

① ? COMP:ITEM=210041/(01,02,03,04)
COMP:ITEM= 210041/ 01
② COMP:ITEM= 210041/ 02
COMP:ITEM= 210041/ 03
COMP:ITEM= 210041/ 04
③ ? SUBMIT
④ TEST.COMPLETION: 13:41 PDT
⑤ TESTING HAS STARTED
?
⑥ ** RESULTS ARE READY ***
⑦ ? BATRS:ALL
⑧ 1. COMP:ITEM=210041/(01,02,03,04)
COMP:ITEM 210041/ 01
*** STATUS:COULD NOT COMPLETE;TRUNK COULD NOT BE ACCESSED ***
BKFDCA0130T0
BIT 9 2 5.1 0.5 *** ** 33 **
⑨ 105
029 BUSY 151190203105
NO OPERATIONAL TEST LINE
COMP:ITEM= 210041/ 02
*** STATUS:COULD NOT COMPLETE;TRUNK COULD NOT BE ACCESSED ***
BKFDCA0130T0
BIT 9 2 5.1 0.5 *** ** 33 **
⑩ 105
028 BUSY 151190203105
NO OPERATIONAL TEST LINE
COMP:ITEM= 210041/ 03
*** STATUS:COULD NOT COMPLETE;TRUNK COULD NOT BE ACCESSED ***
BKFDCA0130T0
BIT 9 2 5.1 0.5 *** ** 33 **
⑪ 105
002 00012 HSD 151191903105
NO OPERATIONAL TEST LINE
COMP:ITEM= 210041/ 04
*** STATUS COMPLETED AND PASSED CIRCUIT ORDER LIMITS ***
BKFCCA0301T0
0TG 9 2 5.0 1.0 *** ** 20 **
105
317 01359 ANS 1502816250037
LEVEL - 4.9 (- 4.0/- 6.0) - 5.3 (- 4.0/- 6.0)
L1000 ----- (-20.0/-22.0) ----- (-20.0/-22.0)
L2800 ----- (-V9.8/P70.0) ----- (-V9.8/P70.0)
L400 ----- ( / ) ----- ( / )
NOISE ... (20) ... (20)
N/T --- (91) --- (91)
NO OPERATIONAL TEST LINE
?

```

Fig. 13—Sample Printout with Explanation—Complete Circuit-Order Item(s)—CAROT Testable

- ① First entry of batch request for completing circuit-order item 210041/05
- ② Second entry, complete circuit-order item 210041/05 with a specified parameter change of impedance value 600 ohms.
- ③ Third entry, complete circuit-order item 21041/07 by specifying test failure override as a parameter change.
- ④ Fourth entry, complete circuit-order items 240041/01 and 02 with a parameter change in test pad value 2 dB.
- ⑤ CAROT response to Step ④, items previously completed.
- ⑥ Operator command **SUBMIT** indicating input message is complete and CAROT can begin processing of batch.
- ⑦ CAROT response showing estimated completion time for batch.
- ⑧ CAROT response showing processing has begun.
- ⑨ Operator command asking CAROT for date and time of day.
- ⑩ CAROT response to Step ⑨.
- ⑪ CAROT announcement that batch results are available.
- ⑫ Operator command **BATRS:ALL** requesting results.
- ⑬ Results for first entry of batch.
- ⑭ Results for second entry of batch.
- ⑮ Results for third entry of batch, notice that item /07 was completed by override despite the fact that the trunk could not be accessed.

NOTE:

See FIG. 8 for detailed explanation of circuit-order test results.

```

①  ? COMP:ITEM=210041/05
②  ? COMP:ITEM=210041/06,IMP=6
③  ? COMP:ITEM=210041/07,OVER
④  ? COMP:ITEM=210041/(01,02),TPL=2
    COMP:ITEM=      210041/ 01
⑤  COMP:ITEM=      210041/ 01
    CAN'T DO: ALREADY COMPLETED
⑥  ? SUBMIT
⑦  TEST. COMPLETION:  14:59 PDT
⑧  TESTING HAS STARTED
⑨  ? DATE
⑩  WED 09/27/78 14:57:56 PDT
    ?
⑪  ** RESULTS ARE READY ***
⑫  ? BATRS:ALL
    / 1. COMP:ITEM=210041/05
    *** STATUS: COULD NOT COMPLETE; EQUIPMENT FAILURE ***
    BKFDCA0130T0
⑬  0IT 9 2  5.1 0.5  *** **  *** ** 33 **
    105
    ATMS SELF CHECK FAILURE
    NO OPERATIONAL TEST LINE
    / 2. COMP:ITEM=210041/06,IMP=6
    *** STATUS: COULD NOT COMPLETE; EQUIPMENT FAILURE ***
    BKFDCA0130T0
⑭  0IT 6 2  5.1 0.5  *** **  *** ** 33 **
    105
    ATMS SELF CHECK FAILURE
    NO OPERATIONAL TEST LINE
    / 3. COMP:ITEM=210041/07,OVER
    *** STATUS: COMPLETED BY OVERRIDE; TRUNK COULD NOT BE ACCESSED ***
    BKFDCA0130T0
⑮  0IT ) 2  5.1 0.5  *** **  *** ** 33 **
    105
    016 00001 BUSY 151191203105
    NO OPERATIONAL TEST LINE
    ?

```

Fig. 14—Sample Printout with Explanation—Complete Circuit Order Item(s)—CAROT Testable with Parameter Changes (Including Test Failure Override)

- ① Operator command to purge any existing batch request.
- ② Operator command initiating a circuit-order completion report. This batch contains one entry.
- ③ CAROT response listing all items comprising the circuit order (/1 thru /25).
- ④ Operator command **SUBMIT** indicating input message is complete and CAROT can process batch.
- ⑤ CAROT response showing estimated completion time for batch.
- ⑥ CAROT response showing processing has begun.
- ⑦ CAROT automatically terminates remote user. Testing duration is greater than 10 minutes. No remote-user activity during this interval.
- ⑧ Sign-on message after sufficient time has passed to ensure completion of testing.
- ⑨ Operator command **BATRS:ALL** requesting results.
- ⑩ CAROT response to operator request in step ⑨. This message is a repeat of initial request in step ②.
- ⑪ Overall status report on circuit-order request.
- ⑫ Completion and test results for first item in circuit order. Observe this item was completed.
- ⑬ Completion and test results for eighth item. Observe item was not completed, trunk could not be accessed.
- ⑭ Completion and test results for last item in circuit order. Observe item was not completed due to failure to meet circuit-order test limits.

NOTE: See Fig. 8 for detailed explanation of circuit-order test results.

```

① --- ? DEL:ALL
② --- ? COMP:CKTO=105336
      COMP:CKTO.ITEM=      105336/ 01
③ ---
④ --- COMP:CKTO.ITEM=      105336/ 25
⑤ --- ? SUBMIT
⑥ --- TEST. COMPLETION: 10:59 PDT
      TESTING HAS STARTED
      ?
⑦ --- **TERMINATED**
      USER #
      ? 93
      PASSWORD
      *****
      CAROT SYSTEM UER 2 01
      ? BATRS:ALL
⑨ --- 1. COMP:CKTO=105336
⑩ --- *** STATUS: COULD NOT COMPLETE; NOT ALL ITEMS COMPLETED ***
      COMP:CKTO.ITEM=      105336/ 01
      *** STATUS: COMPLETED AND PASSED CIRCUIT ORDER LIMITS ***
      SNFCCA03010
      0TG 9 2 5.0 1.0 *** ** 20 **
      105
      301 00125 ANS 1502808250037
⑫ --- LEVEL - 5.0 (- 4.0/- 6.0) -5.3 (- 4.0/- 6.0)
      L1000 ----- (-20.0/-22.0) ----- (-20.0/-22.0)
      L2800 ----- (-09.8/P70.0) ----- (-09.8/P70.0)
      L400  ----- ( / ) ----- ( / )
      NOISE ... (20) ----- (20)
      N/T --- (91) ----- (91)
      NO OPERATIONAL TEST LINE
      ?
⑬ --- COMP:CKTO.ITEM=      105336/ 08
      *** STATUS: COULD NOT COMPLETE; TRUNK COULD NOT BE ACCESSED ***
      SNFCCA03010
      0TG 9 2 5.1 1.0 *** ** 20 **
      105
      308 01308 RERR 1502912250037
      NO OPERATIONAL TEST LINE
      ?
⑭ --- COMP:CKTO.ITEM=      105336/ 25
      *** STATUS COULD NOT COMPLETE; FAILED CIRCUIT ORDER LIMITS ***
      SNFCCA030IT0
      0TG 9 2 5.1 1.0 *** ** 20 **
      105
      325 01160 ANS 1502900250037
      LEVEL - 6.1 (- 4.1/- 6.1) - 6.4 (- 4.1/- 6.1) F
      L1000 ----- (-20.1/-22.1) ----- (-20.1/-22.1)
      L2800 ----- (-09.8/P70.0) ----- (-09.8/P70.0)
      L400  ----- ( / ) ----- ( / )
      NOISE ... (20) ----- (20)
      N/T --- (91) ----- (91)
      NO OPERATIONAL TEST LINE
      ?
  
```

Fig. 15—Sample Printout with Explanation—Complete Specified Circuit Order

- ① Operator command initiating circuit-order completion report via test failure override parameter change.
- ② CAROT response listing all items comprising the circuit order /01 thru /03.
- ③ Operator command **SUBMIT** indicating input message is complete and CAROT can begin processing batch.
- ④ CAROT response showing estimated completion time for batch.
- ⑤ CAROT response showing processing has begun.
- ⑥ CAROT announcement that batch results are ready.
- ⑦ Operator command **BATRS:ALL** requesting results.
- ⑧ CAROT response to operator request in Step ⑦. This message is a repeat of initial request in Step ①.
- ⑨ Overall status report on circuit-order request.
- ⑩ Completion and test results for first item in circuit-order.
- ⑪ Completion and test results for second item in circuit-order.
- ⑫ Completion and test results for third and last item in circuit-order.

```

①-----? COMP:CKTO=112499,OVER
COMP:CKTO.ITEM=          112499/ 01
②-----COMP:CKTO.ITEM=          112499/ 02
COMP:CKTO.ITEM=          112499/ 03
③-----? SUBMIT
④-----TEST. COMPLETION:   15:56 PDT
⑤-----TESTING HAS STARTED
?
⑥-----** RESULTS ARE READY ***
⑦-----? BATRS:ALL
⑧-----1. COMP:CKTO=112499,OVER
⑨-----*** STATUS:CIRCUIT ORDER AND ITEMS COMPLETED ***
COMP:CKTO.ITEM=          112499/ 01
*** STATUS: COMPLETED BY OVERRIDE; EQUIPMENT FAILURE ***
BKFDCA0130T0
⑩-----0IT 9 2 4.5 0.5 *** ** 31 **
105
ATMS SELF CHECK FAILURE
NO OPERATIONAL TEST LINE
COMP:CKTO.ITEM=          112499/ 02
*** STATUS: COMPLETED BY OVERRIDE; EQUIPMENT FAILURE ***
BKFDCA0130T0
⑪-----0IT 9 2 4.5 0.5 *** ** 31 **
105
ATMS SELF CHECK FAILURE
NO OPERATIONAL TEST LINE
COMP:CKTO.ITEM=          112499/ 03
*** STATUS: COMPLETED BY OVERRIDE; EQUIPMENT FAILURE ***
BKFDCA0130T0
⑫-----0IT 9 2 4.5 0.5 *** ** 31 **
105
ATMS SELF CHECK FAILURE
NO OPERATIONAL TEST LINE
?

```

Fig. 16—Sample Printout with Explanation—Complete Specified Circuit Order with Indicated Parameter Changes (Including Test Failure Override)

- ① Operator command initiating circuit-order completion request for circuit-order items associated with same circuit order for CAROT nontestable circuits.
- ② CAROT response listing all items specified in the initial request.
- ③ Operator command **SUBMIT** indicating input message is complete and CAROT can begin processing batch.
- ④ CAROT announcement that batch results are ready, observe no estimated completion time was given by CAROT since no testing is involved in this case.
- ⑤ Operator command **BATRS:ALL** requesting results.
- ⑥ CAROT response to operator request in Step ⑤. This message is a repeat of initial request in Step ①.
- ⑦ Completion results including first item identifier and status.
- ⑧ Completion results including second item identifier and status.
- ⑨ Completion results including third (and last) item identifier and status.

```

①-----? COMP:ITEM=153784/(01,02,03)
          COMP:ITEM=      153784/ 01
②-----COMP:ITEM=      153784/ 02
          COMP:ITEM=      153784/ 03
③-----? SUBMIT
④-----*** RESULTS ARE READY ***
⑤-----? BATRS:ALL
⑥-----1. COMP:ITEM=153784/(01,02,03)
          COMP:ITEM=      153784/ 01
⑦-----*** STATUS: COMPLETED (NO TESTING INVOLVED) ***
          COMP:ITEM=      153784/ 02
⑧-----*** STATUS: COMPLETED (NO TESTING INVOLVED) ***
          COMP:ITEM=      153784/ 03
⑨-----*** STATUS: COMPLETED (NO TESTING INVOLVED) ***
          ?

```

Fig. 17—Sample Printout with Explanation—Complete CAROT Nontestable Circuit—Order Item

- ① Operator command initiating a circuit-order completion request for CAROT nontestable circuits.
- ② CAROT response listing all items comprising the circuit order.
- ③ Operator command **SUBMIT** indicating input message is complete and CAROT can begin processing batch.
- ④ CAROT announcement that batch results are ready, observe no estimated completion time was given by CAROT since no testing is involved in this case.
- ⑤ Operator command **BATCH:ALL** requesting results.
- ⑥ CAROT response to operator request in Step ⑤. This message is a repeat of initial request in Step ①.
- ⑦ Overall status of entire circuit order request.
- ⑧ Completion results and status for each item contained in the circuit order.
- ⑨ Operator command **DEL:ALL** to clear this batch request from CAROT data base.

```

① ---? COMP:CKTO=225920
      COMP:CKTO.ITEM=      225920/ 01
      COMP:CKTO.ITEM=      225920/ 02
② --- COMP:CKTO.ITEM=      225920/ 03
      COMP:CKTO.ITEM=      225920/ 04
      COMP:CKTO.ITEM=      225920/ 05
③ ---? SUBMIT
④ ---*** RESULTS ARE READY ***
⑤ ---? BATCH:ALL
⑥ --- 1. COMP:CKTO=225920
⑦ ---*** STATUS: CIRCUIT ORDER AND ITEMS COMPLETED ***
      COMP:CKTO.ITEM=      225920/ 01
      *** STATUS: COMPLETED (NO TESTING INVOLVED) ***
      COMP:CKTO.ITEM=      225920/ 02
      *** STATUS: COMPLETED (NO TESTING INVOLVED) ***
      COMP:CKTO.ITEM=      225920/ 03
⑧ ---*** STATUS: COMPLETED (NO TESTING INVOLVED) ***
      COMP:CKTO.ITEM=      225920/ 04
      *** STATUS: COMPLETED (NO TESTING INVOLVED) ***
      COMP:CKTO.ITEM=      225920/ 05
      *** STATUS: COMPLETED (NO TESTING INVOLVED) ***
⑨ ---? DEL:ALL
      ?

```

Fig. 18—Sample Printout with Explanation—Complete CAROT Nontestable Circuit-Order

① DISPLAY REQUEST FOR PLANT CONTROL OFFICE MANAGEMENT SUMMARY.

② CAROT RESPONSE DISPLAYING CIRCUIT ORDER STATUS PER PLANT CONTROL OFFICE AS IDENTIFIED BY COMMON LANGUAGE LOCATION IDENTIFICATION (CLLI).

PCO MANAGEMENT SUMMARY	
PCO ID = BKCA01X0	WED 11/29/78
CIRCUIT ORDER COMPLETION ACTIVITY SINCE WED 11/29/78	
TOTAL NO. OF ITEMS COMPLETED	= 16
NO. OF ADDS	= 11
NO. OF DISCONNECTS	= 4
NO. OF CHANGES	= 1
NO. OF CANCELS	= 0
NO. OF CKTO'S COMPLETED	= 3
CIRCUIT ORDER DATA BASE AS OF WED 11/29/78	
TOTAL NO. OF ITEMS PENDING	= 55
TOTAL NO. OF CIRCUIT ITEMS	= 55
NO. OF ADDS	= 40
NO. OF DISCONNECTS	= 10
NO. OF CHANGES	= 5
NO. OF CANCELS	= 0
NO. PENDING ITEMS OF TYPE FACILITY	= 0
NO. PENDING ITEMS OF TYPE OTHER	= 0
TOTAL NO. OF CIRCUIT ORDER PENDING	= 6
TOTAL NO. OF ITEMS OVERDUE	= 5

Fig. 19—Sample Printout with Explanation—Management Summary Report per Plant Control Office