

CENTRALIZED AUTOMATIC REPORTING ON TRUNKS (CAROT)

CAROT 2

CAROT CENTER OPERATION AND ADMINISTRATION

DUTIES AND RESPONSIBILITIES OF THE

CAROT CENTER AND CONTROL OFFICES

CONTENTS	PAGE	
1. GENERAL	1	trunks that are reportable from the CAROT controller.
2. CAROT ROUTINE TEST RESULTS	1	(b) To define responsibilities of the CAROT center and the control offices in administering the instructions.
3. CAROT CENTER REPORTS	2	(c) To provide standard operating procedures for the CAROT center and control offices.
4. DEMAND TEST RESULTS AND DATA DISPLAYS	2	
5. RESPONSIBILITIES	2	1.02 If this section is reissued, the reason for reissue will be listed in this paragraph.
CAROT Center	2	1.03 The primary purpose of the instructions in this section is to provide a means for coordinating the operation of the CAROT center with the control offices.
Control Offices	3	
6. PROCEDURES	3	1.04 The instructions in this section cover only the CAROT center and the control offices.
CAROT Controller	3	
CAROT Center	4	1.05 For the purpose of this section, a control office is considered to be an office with control responsibility for trunks that can be accessed and reported on by the CAROT controller. A control office will be equipped with a remote office test line (ROTL), responder, and other CAROT/ATMS equipment. Also included in the definition of a control office, for the purpose of CAROT/ATMS equipment maintenance responsibilities, are terminating offices with only 105 test lines and responders. Switching control centers with control trunk responsibilities are also considered control offices.
Control Offices	4	
7. CAROT SYSTEM REVIEWS	5	
8. REFERENCES	5	
1. GENERAL		
1.01 This section is issued for the following reasons:		
(a) To provide instructions for the operation of the CAROT center and control offices with		2. CAROT ROUTINE TEST RESULTS
		2.01 Routine test results and reports furnished from the analysis program are the primary

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SECTION 190-102-010

tools for providing information from the CAROT center to the control office. Section 190-102-015 gives a detailed description of the test results and reports.

2.02 When the testing cycle of the processor is complete, the analysis program automatically begins the analyzation of all results. A single page summary sheet (EXHIBIT 1), followed by a listing of those test results which indicate specific trunk troubles, is printed for each ROTL office. A separate printout is provided for trunk troubles in the following categories:

- (a) Trunks exceeding immediate-action limits (Q2s) that have been confirmed but not made busy—EXHIBIT 2
- (b) Trunks exceeding immediate-action limits (Q2s) that have been confirmed and have been remotely made busy—EXHIBIT 3
- (c) Trunks exceeding immediate-action limits (Q2s) that have not been confirmed—EXHIBIT 4
- (d) Trunks scheduled for a test but could not be accessed (trunks not tested)—EXHIBIT 5
- (e) Trunks exceeding maintenance limits (Q1s)—EXHIBIT 6
- (f) Trunks with chronic intermittent troubles—EXHIBIT 7

Operational type failures are shown on the "Trunks Not Tested" printout (Exh 5). A complete list of operational problems are shown in Table A.

The routine test results can be requested each morning (after a specified time) by the control offices and other authorized remote users. The test results are available and applicable until the next run of the update program.

3. CAROT CENTER REPORTS

3.01 The CAROT Operational Summary is printed by the line printer each morning after the routine test results. It contains an accounting of all equipment and/or data base problems that may have occurred during the previous night's routine testing run. The printout is divided into two

parts. Part 1 contains problems related to a specific ROTL (EXHIBIT 8) and Part 2 contains problems associated with a far-end responder (EXHIBIT 9). For each ROTL trouble category, there are different types of troubles that may occur. Messages that may be printed, their meanings, and resulting CAROT action are explained in Table B.

3.02 The Management Summary Report (EXHIBIT 10) for each individual ROTL within a control office is printed by the line printer at the CAROT center automatically at specified intervals or can be obtained on demand. Twelve categories of test results during the testing interval are listed on the report. This report can also be requested by control offices and remote users.

3.03 The Index Summary (EXHIBIT 11) for each individual ROTL within a control office is printed by the line printer at the CAROT center automatically at specified intervals or can be obtained on demand. The data listed under the 11-header designations on the report can be used to compute the Trunk Transmission Maintenance Index (TTMI). The CAROT controller does not compute the index, but rather provides data for the computation of the index by the responsible organization. The information on this report is necessary to complete Form E-6501, "Automatic Measurements Using CAROT for the Trunk Transmission Maintenance Index," Section 660-403-011.

3.04 The Daily Office Summary (EXHIBIT 12) is a report of the information available from each ROTL office routine test results. The report can be generated by request from the CAROT console at any time after an analysis has been run and prior to update time.

4. DEMAND TEST RESULTS AND DATA DISPLAYS

4.01 Demand tests on a particular trunk or trunk group can be requested by the CAROT center or a remote user. In addition, displays of data can be obtained by the CAROT center or remote user.

5. RESPONSIBILITIES

CAROT Center

5.01 The CAROT center is responsible for the overall coordination and control of all functions

connected with the CAROT system. These responsibilities include the following:

- (a) Provide for routine testing (loss and noise measurements) and reporting of test results on all trunks accessible from the CAROT controller. Testing parameters and frequency of tests are found in Section 660-403-500, **Message Circuit Noise Measurements on Message Trunks—Requirements**, and Section 660-402-300, **Transmission Maintenance, Overall 1000 Hz Loss Measurements on Message Trunks**.
- (b) Provide adequate trained personnel for operating the CAROT and associated tape preparation centers.
- (c) Compile and maintain a list of the ROTLs, responders, and test lines installed in an office along with the telephone numbers needed to reach the test line.
- (d) Coordinate all technical assistance required by the remote offices doing turnup or maintenance of CAROT/ATMS equipment.
- (e) Compile and maintain a list of control offices for trunks and facilities and the terminal equipment used by each.
- (f) Maintain the file of remote user's identification information and control the functions which each is authorized to use.
- (g) Maintain a complete up-to-date CAROT trunk data base for each CAROT reportable office.
- (h) Set and adjust, as necessary, CAROT system operating parameters; eg, AVGROT of the CAROT controller. (AVGROT represents the average number of tests per hour that a ROTL can perform during routine testing.)
- (i) Arrange for maintenance of the CAROT controller and keep it available for remote users.
- (j) Provide test frame tapes in accordance with local practices.
- (k) Conduct biennial reviews of ROTL operation for data base accuracy and trunk performance in each office.

(l) Forward copies of the Management Summary to the concerned higher management personnel. The CAROT center's supervisor will be responsible for compiling a list of interested higher management personnel.

(m) Insure that the control offices obtain proper documentation of the results for utilization of the reports. (See Part 8, References.)

(n) Insure that control offices obtain proper documentation and training, if necessary, on remote demand testing and data display. (See Part 8, References.)

Control Offices

5.02 The control offices have the responsibility for repairing and aligning all trunks reported either verbally or by TTY from the CAROT center. The control offices shall perform the following:

- (a) Respond to CAROT center directions on all referred reports.
- (b) Respond to CAROT center directions when maintaining allied CAROT/ATMS equipment.
- (c) Furnish input documents when the CAROT center requests the information for establishing and updating the data base.

6. PROCEDURES

CAROT Controller

6.01 The CAROT controller may be programmed to start a testing cycle at any specified time and also will automatically perform the following operations.

- (a) During routine testing period—
 - automatically performs routine tests and maintains available status for remote users.
- (b) During results analysis period—
 - analyzes results of routine tests, updates summary information, and prepares and transmits reports.
- (c) During day time operation—

SECTION 190-102-010

- remains available to perform remote user requests and certain console operations involved in data base management, such as test frame tape preparation and data and test results displays.

(d) During update period—

- performs necessary changes to data base and performs the initial stage of automatic routine test scheduling.

CAROT Center

6.02 The CAROT center is responsible for the following:

- (a) Transmitting all CAROT reports to those control offices without an associated TTY as soon as possible after the controller analysis is complete. Control offices with an associated TTY must request their own reports.
- (b) Maintaining a log of Q2 reports referred to the control offices.
- (c) Carefully analyzing the Daily Office Summary and the CAROT Operational Summary. This analysis also aids in identifying intermittent test equipment troubles and also points out data base and related CAROT equipment problems.
- (d) Correcting data base problems as soon as they are identified. Accuracy of the CAROT data base is of paramount importance to the successful testing and referral process and must be maintained at as near 100% accuracy as possible.
- (e) Maintaining a record of all CAROT/ATMS equipment problems, including status, and a record of the group responsible for repair. Controls must be established to insure prompt repair and inspection of all CAROT related equipment. These controls encompass the CAROT controllers as well as all central office equipment, such as ROTLs, responders, and 105 test lines.
- (f) Assisting the control offices in resolving any operational troubles. The CAROT center is responsible for the close analysis of VA, RO, AR, DT, and PERR and RERR reports upon request by the control office. This type of

report is to be analyzed at the CAROT center to insure that the report is not a data base problem.

(g) Responding to requests for special routine tests on trunk groups for trouble investigation when requested by the control offices (when the remote user terminal feature is not available or is inoperative).

(h) Initiating and distributing a Management Summary report on a periodic basis to concerned district and division level management. The district report should include all reportable offices within the district, and the division report should include all reportable offices within the division.

6.03 The CAROT center may be utilized to conduct final transmission tests on circuit orders. Where this routine is part of the CAROT center operation, all tests that the system is capable of performing shall be conducted and deviation parameters adhered to as spelled out in Sections 660-450-300 and 660-450-301. The CAROT center may also be utilized as a reporting center for circuit order completion. In these instances the center reviews the printout of completions reported each day and forwards the completions report to the appropriate organization. Another function for which the center may be used is to review the file of pending orders to coordinate past due orders with the control office.

Control Offices

6.04 Control offices have the responsibility for repairing and aligning all trunks reported by the CAROT center. The control offices shall perform the following:

- (a) Immediately identify and remove from service all trunks reported as Q2 and high and dry which have not already been remotely made busy by CAROT and the ROTL.
- (b) Enter all CAROT reported trunks removed from service on Form 1025, Outage Ticket, and Form E-4255, Log of Trunk Outages, per instructions contained in Section 660-400-010.
- (c) Follow instructions spelled out in the respective controlled maintenance plan as

related to trouble ticket disposition for CAROT reported troubles.

(d) Inform the CAROT center of the disposition of Q2 reports as soon as possible. A full explanation of trouble found, action taken, and the reason for any reports not being closed out is required.

(e) Expedite repair and alignment of reported Q2 and high and dry trunks. Trunks removed from service should be repaired and returned to network service prior to the earliest busy calling hour of the day.

(f) Inform the CAROT center of any known problems with CAROT related ATMS equipment.

(g) Expedite the repair and perform scheduled routines on all related CAROT equipment.

(h) Establish procedures for the analysis of the Q1, operational troubles, and trunks not tested reports in accordance with the following:

(1) Investigate each permanent busy (BUSY) report from the "Trunks Not Tested" report.

(2) Fully analyze the Q1 report received from the CAROT center and structure plans to bring all trunks within their required EML and noise objectives.

(3) Fully analyze VA, RO, AR and DT reports.

(4) Report any indication of data base problems to the CAROT center and/or other responsible groups for correction.

(5) Request assistance from the CAROT center and/or other responsible groups on persistent troubles which cannot be found.

7. CAROT SYSTEM REVIEWS

7.01 The CAROT center should review data records for all new ROTL offices during the first two months that the ROTL is in operation to ensure that prescribed tests are performed as scheduled. The review should cover ROTL operation, data base accuracy, and trunk performance in the office. The following performance requirement

must be met for an acceptable review: 95% of tests scheduled must be performed.

7.02 Further requirements for the number of CAROT trouble indications caused by test equipment failures, data base errors, real trunk troubles, or other causes are shown in Table C. This table shows the maximum number or percentage of faults allowable in each category over the month's testing. The data to evaluate each office and to compare with these requirements is obtained from the Management Summary (Exh 10) and Index Summary (Exh 11) printouts.

7.03 The CAROT center should conduct a biennial certification procedure for each ROTL office. This review and performance requirement is the same as described in 7.01 and 7.02.

7.04 The control office should investigate all trouble indications referred during this review and report to the CAROT center the results of the investigation by indicating whether the trouble is due to failures, data base errors, or no trouble found (NFT).

7.05 The CAROT center should investigate and correct data base errors and, in conjunction with the control office, NTFs and test equipment troubles.

8. REFERENCES

8.01 The following is a list of documents that relate to the CAROT 2 system.

SECTION	TITLE
190-001-001	Operation Support System— Minicomputer Maintenance Activity Reporting
190-001-002	Operation Report System— Minicomputer Repair Report
190-102-015	CAROT 2 Center—Analysis of Test Results
190-102-100	CAROT 2 Controller and Remote Terminal Description
190-102-300	CAROT 2 Controller TOP

SECTION 190-102-010

SECTION	TITLE	SECTION	TITLE
190-102-305	CAROT 2 Remote User Manual TOP	865-203-100	CAROT 1 and CAROT 2— Engineering Considerations
190-102-310	CAROT 2 Center—Data Base Description and Requirements	865-203-101	CAROT 1 and CAROT 2— Engineering and Implementation Methods System
190-102-311	CAROT 2 Center—Duties and Responsibilities of Data Base Administrator	951-710-100	CAROT 2 General Description
190-102-312	CAROT 2 Center—Duties and Responsibilities of Controller Administrator	P.T.C. No. 278	Plant Training Course—TOP USER Training
190-102-500	CAROT 2 System Trouble-Locating Procedures	P.T.C. No. 308	Plant Training Course—CAROT— Centralized Automatic Reporting on Trunks
824-101-112	CAROT 1 and CAROT 2 Equipment Design Requirements		

TABLE A
CAROT CALL DISPOSITIONS

CAROT CALL DISPOSITION	DEFINITION
FEBY	Far-end test line busy
MWT*	Unexpected 1000-Hz tone
ANS*	Answer
VA*	Voice or voice announcement
AR*	Audible ring
PKTO	105 test line parking circuit time-out
DT*	Dial tone
RO*	Reorder
BUSY*	Busy
PTF	Pre-trip failure
H&D*	High and dry
RERR	ROTL signaling format error
OPBY	Operational test equipment busy
PERR	Priming error
NEBY	Near-end busy
NOAS	No answer supervision
SPHT	Supervisory hit detected
EFOB	Equipment failure or blockage
TPT	Test progress tone longer than expected (ROTL calls only)

*These dispositions are used for both ROTL call and trunk test call dispositions. The remaining dispositions (except TPT) are used for trunk test calls only.

TABLE B

CAROT OPERATIONAL SUMMARY – PART 1: ROTL PROBLEMS

TROUBLE CATEGORY	CAROT MESSAGE	MESSAGE MEANING	CAROT ACTION
ROTL PROBLEMS	ROTL COULD NOT BE ACCESSED 01 SUN 01/12/75 23:56 BUSY 03 SUN 01/13/75 00:53 BUSY	This message is printed whenever a ROTL cannot be accessed (with up to three attempts) during a routine test run. The CAROT test port number, date, time, and ROTL call disposition are listed for each occurrence.	The remainder of the trunks scheduled for the ROTL are bypassed until the next test pass.
	EIGHT RECYCLE FAILURES 01 TUE 01/14/75 23:08 RO 04 WED 01/15/75 01:00 H&D 06 WED 01/15/75 02:10 RO 01 WED 01/15/75 03:00 RO	This message is printed whenever a ROTL fails to recycle eight times during a single test pass. The CAROT test port number, date, time, and ROTL call disposition are listed for each occurrence.	
	CALLBACK INITIALIZATION ERROR 01 SUN 01/12/75 23:56 RO 01 MON 01/13/75 01:53 RO	This message is printed whenever a security callback cannot be initiated by a ROTL equipped to make trunks busy.* The CAROT test port number, date, time, and ROTL call disposition are listed for each occurrence.	The trunk is not made busy.
	CALLBACK COMPLETION ERROR 02 MON 01/13/75 02:58 H&D	This message is printed whenever a security callback cannot be completed by a ROTL equipped to make trunks busy.* The CAROT test port number, date, time, and ROTL call disposition are listed for each occurrence.	
	TRUNK COULD NOT BE TESTED DF55IE-EAS RVDLGAMA99A D - ATLNGAEP76A 012 760 0500333625447615199 975 MON 01/21/75 05:13 ANS ANS LEVEL - 5.0 (Q2) - 1.0 NSNE 19 NSFE 26	This message is printed whenever a security callback has been completed to a ROTL, but the ROTL refused to make the trunk busy. This could be a signaling error from the ROTL or a ROTL make-busy overflow. The trunk group information (Exh 6) is included, followed by CAROT trouble number, date and time of occurrence, call dispositions, and test results (Exh 6).	

*This problem may be located in the CAROT test port callback circuitry.

TABLE B (Cont)

CAROT OPERATIONAL SUMMARY – PART 1: ROTL PROBLEMS

TROUBLE CATEGORY	CAROT MESSAGE	MESSAGE MEANING	CAROT ACTION
TRUNK GROUP PROBLEMS	2 AR/VA'S ON TRUNK GROUP PH05TG ATLNGABU12T M- ATLNGACS58A 02 SUN 05/11/75 17:21	This message is printed whenever two audible rings or two voice announcements are detected during a routine test run. The trunk group information (Exh 6), CAROT test port number, date, and time of occurrence are listed.	The trunk group is skipped for the rest of the routine test run.
	4 CONSECUTIVE H&D'S ON TRUNK GROUP DF55IE ATLNGAWE75C D- ATLNGATH32A 01 TUE 01/14/75 23:35 03 WED 01/15/75 00:51 06 WED 01/15/75 01:22 10 WED 01/15/75 01:59	This message is printed whenever a trunk group experiences four consecutive high and dry's on trunks within the group. The trunk group information (Exh 6) is included, followed by the CAROT test port number, date, and time of each occurrence.	The remainder of the trunks in the group are bypassed until the next test pass.
	2 CONSECUTIVE PKTO'S ON TRUNK GROUP AF50TO-EAS NRCRGAMA44A M- ATLNGABU12T 01 TUE 01/14/75 23:26 01 TUE 01/14/75 23:30	This message is printed whenever two consecutive 105 parking circuit time-outs are detected on a trunk group during a test pass.† The trunk group information (Exh 6) is included, followed by the CAROT test port number, date, and time of each occurrence.	
TRUNK PROBLEMS	IMPROPER TRUNK DISPOSITIONS DF55IE-EAS RVDLGAMA99A D- ATLNGAEP76A 012 760 0500333625447615199 02 TUE 01/14/75 23:48 PERR 010 758 0500133625447615199 03 WED 01/15/75 00:19 BUSY RERR	This message is printed whenever trunks have call dispositions (Table A) warranting CAROT attention. At the present time there are only two dispositions (PERR and RERR). The PERR disposition is detected by expanded ROTLs only. The RERR disposition is detected by CAROT only when testing to expanded ROTLs. The trunk group information (Exh 6) is included, followed by the traffic trunk number and associated information, CAROT test port number, the date and time of occurrence, and the call disposition.	

†This does not necessarily indicate a trunk group problem but may be due to excessive competition for the far-end test line at a particular point in time. If this indication were to occur on every test pass, however, the test line itself may have a malfunction.

TABLE B (Cont)

CAROT OPERATIONAL SUMMARY – PART 1: ROTL PROBLEMS

TROUBLE CATEGORY	CAROT MESSAGE	MESSAGE MEANING	CAROT ACTION
NEAR-END RESPONDER PROBLEMS	RESPONDER SELF CHECK FAILURE ATNGALA62A 135.135 24 DF55IE ATLNGAED784 D- ATLNGALA62A 503 161 050063218732176 03 SAT 05:15:76 02:50 ANS LEVEL - 1.2(Q9) 0.1 NSNE 4(Q9) NSFE 0 WED 01/15/75 01:53	This message is printed whenever a responder failure occurs during routine testing. The far-end responder location information ‡ (3.03) is included, followed by the trunk group identification (Exh 6), traffic number and associated information, CAROT test port number, the date and time of occurrence, the call disposition, and the measurement results. A self-check failure for near-end responder is defined as all self-checks with a Q9 (far-to-near loss or near-end noise deviations greater than 0.1 or 1, respectively); or N/D (no data received) on any measurement.	The remaining trunks in the current trunk group are bypassed until the next test pass.
FAR-END TEST LINE PROBLEMS	NO FAR END TEST LINE EXISTS DF55IE-EAS SMYRGMA43A D- ATLNGAAU15T 0IE 90 2.8 1.0 28 36 WED 01/15/75 01:53	This message is printed whenever no far-end test line exists (according to the data base) for a particular trunk group. The message is followed by the trunk group identification (Exh 6), test parameters (Exh 6), and date and time of the test attempt. This is a data base problem.	The entire trunk group is bypassed until the next routine test run.

‡ If ** NO RESPONDER ID DEFINED ** is printed instead of the responder location, the responder ID information has not been included in the data base.

TABLE C
OFFICE CERTIFICATION PROCEDURE GOALS

DISPOSITION	CAUSE AND PERCENT OR MAXIMUM ALLOWABLE NUMBER			
	EQUIPMENT	DATA BASE	TRUNK	UNIDENTIFIED
Q2	0% or 0	0% or 0	.2% or 4	.1% or 2
Q1	0% or 0	0% or 0	Note	1% or 2
BUSY	1% or 2	1% or 2	2% or 4	1% or 2
H & D	1% or 2	1% or 2	1% or 2	1% or 2
All others causing trunks not to be tested	1% or 2	1% or 2	1% or 2	1% or 2

Note: For a TTMI subcomponent index of 98, the following maximum percentages are allowable:

Loss > .7	7.8% for E repeater, nongain 26.6% for carrier
Loss > 1.7	2.8% for carrier
Noise	2.9% exceeding maintenance limit.

ROUTINE TEST RESULTS
ROTL OFFICE SUMMARY

ATLNGABUE03

ATLNGABU12T0

TRUNKS SCHEDULED	362
TRUNKS TESTED	331
TRUNKS IN TROUBLE	17
TRUNKS WITH NO ATTEMPTS	25

MANAGEMENT RESULTS -----

TOTAL TESTS=	331	NO. TRANS TESTS=	331	NO. OPER TESTS=	0
NO. Q1 LOSS=	5	NO. Q2 NOISE=	7		
NO. Q2 LOSS=	0	NO. Q2 NOISE=	0		
NO. OPER FAILURES=	0	NO. CHRONIC FAIL=	0		
NO. PERMANENT BUSY=	6	NO. HIGH AND DRY=	0		
NO. OTHERS NOT TESTED=	0				

EXHIBIT 1

**ROUTING TEST RESULTS
TRUNKS EXCEEDING Q2 LIMITS
(CONFIRMED)**

ATLNGATH63A@ SUN 05 11 75 TO MON 05 12 75

TRUNKS EXCEEDING Q2 LIMITS [CONFIRMED]

DF53SP-CNALL ATLNGATH63A D- ATLANGANW43T
135D2 ATLANGANW ATLNGATH
0SP 9 0 5.0 1.0 28 36
105
015 16 0529840105
975 MON 05/12/75 05:13 ANS ANS
LEVEL -.... (Q2) -.... (Q2)
NSNE 19
NSFE 26

DF53SP-0Y0- ATLNGATH63A D- ATLANGANW43T
131D2 ATLANGANW ATLNGATH
0SP 9 0 5.0 1.0 28 36
105
153 18 0528830105
969 MON 05/12/75 05:10 ANS ANS
LEVEL 0.8 (Q2) 0.6 (Q2)
NSNE 33 (Q1)
NSFE 25

EXHIBIT 2

ROUTINE TEST RESULTS
TRUNKS EXCEEDING Q2 LIMITS
(CONFIRMED AND MADE BUSY)

ATLNGATH63A0 SUN 05 11 75 TO MON 05 12 75

TRUNKS EXCEEDING Q2 LIMITS [CONFIRMED AND MADE BUSY]

DF53SP-CNALL ATLNGATH63A D- ATLNGANW43T
135D2 ATLNGANW ATLNGATH
0SP 9 0 5.0 1.0 28 36
105
015 16 0529840105
975 MON 05/12/75 05:13 ANS ANS
LEVEL -..... (Q2) -..... (Q2)
NSNE 19
NSFE 26

DF53SP-0Y0- ATLNGATH63A D- ATLNGANW43T
131D2 ATLNGANW ATLNGATH
0SP 9 0 5.0 1.0 28 36
105
153 18 0528830105
969 MON 05/12/75 05:10 ANS ANS
LEVEL 0.8 (Q2) 0.6 (Q2)
NSNE 33 (Q1)
NSFE 25

EXHIBIT 3

ROUTINE TEST RESULTS
TRUNKS EXCEEDING Q2 LIMITS
(NOT CONFIRMED)

ATLNGAEP76A1 WED 02 12 75 TO THU 02 13 75

TRUNKS EXCEEDING Q2 LIMITS [NOT CONFIRMED]

DF53CA-ANI ATLNGAEP76A D- ATLNATL53T

TK17022H88 ATLNGAWE ATLNGAEP

0CA 9 0 3.0 1.0 25 36

105

042 81 17182

2524 THU 02/13/75 01:49 ANS BUSY BUSY BUSY

LEVEL - 7.0 (Q2) - 6.9 (Q2)

NSNE 28 (Q1)

NSFE 37 (Q2)

EXHIBIT 4

ROUTINE TEST RESULTS
TRUNKS NOT TESTED

ATLNGABU23A0 WED 02 12 75 TO THU 02 13 75

TRUNKS NOT TESTED

DF55IE ATLNGABU23A D- ATLNGABH34A
103D1A ATLNGABH ATLNGABU
0IE 9 0 2.7 1.0 28 36
105
010 13 14262
2537 THU 02/13/75 01:50 BUSY BUSY BUSY

DF55IE ATLNGABU23A D- ATLNGACD28A
100D1A ATLNGACD ATLNGABU
0IE 9 0 3.1 1.0 28 36
105
000 4 13342
2540 THU 02/13/75 01:50 BUSY BUSY BUSY BUSY
102D1A ATLNGACD ATLNGABU
0IE 9 0 3.1 1.0 28 36
105
009 2 13432
2544 THU 02/13/75 01:51 BUSY BUSY BUSY

**ROUTINE TEST RESULTS
TRUNKS EXCEEDING Q1 LIMITS**

ATLNGADE37A0 SUN 05 11 75 TO MON 05 12 75

TRUNKS EXCEEDING Q1 LIMITS

DF55IE ATLNGADE37A D- ATLNGABH34A
104D1A ATLNGABH ATLNGAELF01

0IE 9 0 3.1 1.0 28 36

105

000 10 14072

490 SUN 05/11/75 18:22 ANS

LEVEL - 1.8 (Q1) - 1.5 (Q1)

NSNE 19

NSFE 23

102D1A ATLNGABH ATLNGAELF01

0IE 9 0 2.7 1.0 28 36

105

002 14 14922

1167 MON 05/12/75 06:39 BUSY ANS

LEVEL - 2.9 - 1.4 (Q1)

NSNE -..

NSFE 16

003 15 14932

494 SUN 05/11/75 18:24 ANS

LEVEL - 2.8 - 1.4 (Q1)

NSNE -..

NSFE -17

DF55IE ATLNGADE37A D- ATLNGABU26A
TK27424NL ATLNGAEL ATLNGADE37A

0IE 9 0 2.9 1.0 28 36

105

003 331 12472

740 SUN 05/11/75 23:06 ANS

LEVEL - 2.8 - 1.6 (Q1)

NSNE -..

NSFE 17

004 332 12482

742 SUN 05/11/75 23:06 ANS

LEVEL - 2.7 - 1.6 (Q1)

NSNE 16

NSFE 17

013 341 12572

EXHIBIT 6

ROUTINE TEST RESULTS
TRUNKS WITH CHRONIC INTERMITTENT TROUBLES

ATLNGABU12T0 WED 10/08/75 TO THU 10/09/75

TRUNKS WITH CHRONIC INTERMITTENT TROUBLES

DF05TG-EAS ATLNGABU12T D- WDTGAMA926
205N2 WDTGAMA ATLNGABUF20

0TG 9 0 3.0 1.0 23 30

105

052 9 0500001519263199

281 THU 10/09/75 01:07 ANS ANS

LEVEL -3.8 -2.7

NSNE 19

NSFE 17

EXHIBIT 7

OPERATIONAL SUMMARY
ROTL OFFICE EQUIPMENT MALFUNCTIONSEQUIPMENT MALFUNCTIONS FOR OFFICE
ATLNGAWE75802 AR/VA'S ON TRUNK GROUP
DF50TD ATLNGAWE758 D- ATLNGAAU14T
01 MON 05/12/75 00:034 CONSECUTIVE H&D'S ON TRUNK GROUP
DF53IE ATLNGAWE758 D- ATLNGADE37A
02 SUN 05/11/75 19:48
04 MON 05/12/75 02:51RESPONDER SELF CHECK FAILURE
ATLNGADE37A 266.254 24
DF55IE ATLNGAWE758 D- ATLNGADE37A
012 760 0529840105
03 MON 05/12/75 00:13 ANS

LEVEL N/D N/D

NSNE N/D

NSFE N/D

ATLNGANW43T 131.273 24
DF53SP-0Y0 ATLNGAWE758 D- ATLNGANW43T
153 18 0528830105
02 MON 05/12/75 03:22 ANS

LEVEL N/D N/D

NSNE N/D

NSFE N/D

EXHIBIT 8

OPERATIONAL SUMMARY
FAR-END RESPONDER FAILURES

RESPONDER SELF CHECK FAILURE
ASTLGAMA94A 104.07 24

FROM THE FOLLOWING ORIGINATING LOCATIONS

ATLNGAWE758 266.254 24

LEVEL 0.1 - 1.1 (Q9)
NSNE 0
NSFE - 4 (Q9)
WED 01/15/75 00:38

ATLNGAHR79A 121.123 24

LEVEL 0.1 - 1.2 (Q9)
NSNE 0
NSFE - 5 (Q9)
WED 01/15/75 01:53

**CONTROL OFFICE
MANAGEMENT SUMMARY REPORT**

MANAGEMENT SUMMARY REPORT FOR CONTROL OFFICE - ATLNGAHR01

ROTL --- ATLNGAHR79A1

SUMMARY INTERVAL IS FROM: MON 02/03/75 -TO- THU 05/22/75

1-TOTAL NUMBER OF TESTS MADE- 538
2-NUMBER OF TRANSMISSION TESTS MADE- 538
3-NUMBER OF OPERATIONAL TESTS MADE- 0
4-NUMBER TESTS EXCEEDING MAINTENANCE LIMITS FOR LOSS- 44
5-NUMBER TESTS EXCEEDING MAINTENANCE LIMITS FOR NOISE- 77
6-NUMBER TESTS EXCEEDING IMMEDIATE ACTION FOR LOSS- 2
7-NUMBER TESTS EXCEEDING IMMEDIATE ACTION FOR NOISE- 1
8-NUMBER OPERATIONAL FAILURES- 0
9-NUMBER OF CHRONIC FAILURES- 0
10-NUMBER OF PERMANENT BUSIES- 37
11-NUMBER OF HIGH AND DRIES- 6
12-NUMBER OTHERS NOT TESTED*- 8

EXHIBIT 10

CONTROL OFFICE
INDEX SUMMARY REPORT

INDEX SUMMARY RESULTS FOR CONTROL OFFICE-ATLNGAHR01

ROTL --- ATLNGAHR79A1

SUMMARY INTERVAL IS FROM: MON 02/03/75 -TO- THU 05/22/75

TYP	NTRKS	FAC	FREQ	.7	1.7	3.7	L-TOT	Q1N	Q2N	NTOT
9	0	6	20	0	0	0	0	0	0	0
9	174	6	30	111	2	0	224	30	0	224
8	0	5	20	0	0	0	0	0	0	0
8	0	5	30	0	0	0	0	0	0	0
9	211	10	10	58	6	2	852	49	1	852
9	0	10	20	0	0	0	0	0	0	0

EXHIBIT 11

**ROUTINE TEST RESULTS
DAILY OFFICE SUMMARY
(ALL ROTL OFFICES)**

CAROT - DAILY OFFICE SUMMARY

ROTL OFFICE	SCHEDULED	TESTED	TROUBLES	NO TRIES	% TESTED
ACWOGAMA9740	70	60	13	0	85.7 %
ATLNGABH34A0	297	248	5	44	83.5 %
ATLNGABU23A0	114	113	4	0	99.1 %
ATLNGABU23A1	82	76	10	6	92.6 %
ATLNGABU26A0	***** NOT SCHEDULED *****				
ATLNGABU12T0	1160	952	184	133	82.0 %
ATLNGABU23C0	26	26	0	0	100.0 %
ATLNGACD28A0	405	375	141	16	92.5 %
ATLNGADE37A0	141	111	15	20	78.7 %
ATLNGADE37A1	217	191	50	13	88.0 %
ATLNGAEP76A0	200	175	33	15	87.5 %
ATLNGAEP76A1	168	150	9	9	89.2 %
ATLNGAGR24A0	***** NOT SCHEDULED *****				
ATLNGAHR79A0	207	157	13	37	75.8 %
ATLNGAHR79A1	78	60	13	17	76.9 %
ATLNGAIC29A0	***** NOT SCHEDULED *****				
ATLNGALA62A0	206	185	21	16	89.8 %
ATLNGALA62A1	46	39	37	0	84.7 %
ATLNGAPP89A0	226	200	20	13	88.4 %
ATLNGASS25A0	589	539	144	7	91.5 %
ATLNGATH63A0	534	427	180	13	79.9 %
ATLNGATH32A0	***** NOT SCHEDULED *****				
TOTALS	4766	4084	900	359	85.6 %

EXHIBIT 12