

ANI SERVICE RESULTS  
STEP-BY-STEP OFFICES WITH TYPE B AND C ANI

CONTENTS	PAGE
1. GENERAL .....	1
2. DESCRIPTION OF PLAN .....	1
3. PREPARING RESULTS REPORT .....	2
4. ORDERING INFORMATION .....	3
1. GENERAL	(c) Proper identification of tip station set wiring
1.01 This section describes a method of measuring the type of service being provided by Automatic Numbering Identification (ANI) equipment and to a degree the additional load being presented to Traffic Operating forces for Operator Number Identification (ONI) due to failures in the ANI equipment.	(d) Equipment or trunks out of service during heavy load periods.
	(e) Prompt disconnection of stations on 2-party lines if the line cannot be opened on the MDF
1.02 The purpose of an ANI system is to provide automatic identification of the calling customer's directory number and for the transmission of this number to the CAMA or TSPS office for entry on the billing equipment.	2. DESCRIPTION OF PLAN
1.03 Justification for ANI equipment in an office is based on two factors:	2.01 Three components are used to measure ANI service. These components are as follows:
(a) Improved service to the customer	Outpulser Service
(b) Reduced load on Traffic operating forces	Outpulser Connection Service
	Identifier Service
Anytime these two factors are not being satisfied the cause is either equipment malfunction or wiring errors. Both causes are a reflection of the quality of the administration job.	Information for these components is obtained from Plant and Traffic registers provided with the system. Plant registers should be read daily and recorded on Form E-4744. Test calls are counted and excluded so that test activity does not distort results.
This measurement of ANI performance has been designed as an aid in determining the area or equipment components where additional maintenance attention is required.	2.02 Traffic Registers
Areas or work operations that have an impact on the total ANI operation are as follows:	Traffic registers used in compiling results are as follows:
(a) Number network frame strapping	(a) Outpulser Usage Register (OP): Registrations scored on this register is the number of times a particular outpulser within an identifier group is seized.
(b) Verification of completed service order work by frame forces.	(b) Outpulser Seizure Failure Register (OSF): This register scores the number of times the outpulsers within an identifier group has failed to be seized on an ANI call.

**SECTION 227-500-900MS**

**2.03 Plant Registers**

(a) **Test Call Register (TC):** This plant register scores the number of times the outpulser is engaged in one of the following test calls:

- (1) Trunk test call
- (2) Line verification test call
- (3) Permanent signal test call
- (4) Outpulser test call
- (5) Identifier test call

(b) **Second Trial Identifier Failure Register (2TF) Type B ANI only:** This register is scored each time the outpulser has failed to receive all digits after the second attempt of the second identifier which was called in when the first identifier failed to identify in two attempts.

(c) **Outpulser Second Attempt Failure Register (2AF) Type C ANI only:** This register scores each time the outpulser fails to register a calling number identification of the second attempt.

(d) **Cut through Register (CT):** This register scores the number of times the Automatic Trunk test frame cuts through and tests and ANI trunk.

**3. PREPARING RESULTS REPORT FORM 3548**

3.01 A Form 3548, ANI Service Results shall be prepared for each step-by-step office equipped with Type B or Type C ANI. The report period is the 23rd day of the month to the 22nd day of the following month. These reports shall be transmitted to the State Plant office where they will be consolidated into a state result. State results will then be forwarded monthly to the Director of Plant Operations. These forms should be sent to arrive in the Director of Plant Operations office no later than the 8th calendar day of the month following the report month.

**3.02 Detailed Preparation by Line:**

Line 1 - Enter the total usage of all outpulsers (OP-) traffic registers

Line 2 - Test Calls Registered on the Plant TC Register. There is a TC register in the Plant register group and a TC register in the Traffic register group. These two registers should correspond in number of registrations but only one should be used as the source data for this report. A difference in readings of the two registers should be considered a trouble indication.

Line 3 - Enter test call failures of outpulsers that were placed from locations other than OITT, ATTC, or Line Verification Unit

Note: Do not subtract tickets with digits 3, 4, or 5 in character position 3 as these calls represent test calls placed from the Automatic Trunk Test frame, Line Verification Unit, or Outpulser Identifier Test Frame and were registered on the TC register that was covered in Line 2.

Line 4 - Enter test call failures of Identifiers that were placed from locations other than OITT, ATTC, or Line Verification Unit.

Note: See Note for Line 3 above.

Line 5 - Total of lines 2, 3, and 4

Line 6 - Net Outpulser Usages - Line 1 minus line 5

Line 7 - Total Outpulser Failures as registered on OPF-registers

Line 8 - Outpulser Test Calls as entered on Line 3

Line 9 - Net Outpulser Failures - Line 7 minus Line 8

Line 10 - Outpulser Seizure Failures as registered on the Traffic OSF register

Line 11 - Identifier Second Trial Failures as scored on the 2TF register (Type B ANI office only)

Line 11A - Identifier Second Attempt Failures scored on the 2AF register. (Type C ANI offices only)

Line 11B Total Identifier Failures: For Type B ANI only enter figure shown on Line 11

Type C ANI only enter figure shown on Line 11A. Combined results that reflect both Types B and C ANI would enter a sum of Line 11 plus Line 11A

Line 12 - Identifier test calls as entered on Line 4

Line 13 - Net Identifier Failures - Line 11B minus Line 12

Line 14 - Trunk tests registered on the cut-through CT register. This indicates the number of times the Automatic Trunk Test Frame cuts through and tests an ANI trunk

Line 16 - Outpulser Failures, as shown on Line 9, shall be entered under Column A

Outpulser Seizure Failures, as shown on Line 10, shall be entered under Column B

Net Identifier Failures, as shown on Line 13, shall be entered under Column C

Line 17 - Enter Usage expressed in terms of 10,000 in Columns A,B, and C, i.e. Line 6 ÷ 10,000.

Line 18 - Enter ratio of failures to usages as determined by dividing Line 16 by Line 17

Line 19 - Component index, as determined from the index table for each category

Line 20 - Index points corresponding to the component index shown on the index tables

Line 21 - Total of index points for each category as shown on Line 20

Line 22 - Identification Failure Reports - Received from CAMA or TSPS recording location:

Some failures of ANI equipment are not apparent to the office where the equipment is located. These failures are only apparent to the CAMA recording location and are registered on a trouble card for analysis. The trouble information shown on these trouble cards must be passed to the ANI office to make maintenance forces aware of the trouble and furnish them with the indicators necessary to correct the trouble.

Enter on this line the number of such reports received from the CAMA recording location.

#### 4. ORDERING INFORMATION

4.01 Additional copies of this practice may be ordered using Form 3858 on a one-time-only basis.

Form 3548 may be ordered on a stationary requisition as a stock item in quantities which are in multiples of 25.



## EXHIBIT 2

## SXS-ANI-CAMA PERFORMANCE

## INDEX TABLE FOR 2ND TRIAL IDENTIFIER FAILURES PER 10,000 OUTPULSER USAGES

PERFORM- ANCE	COMP. INDEX	INDEX POINTS	PERFORM- ANCE	COMP. INDEX	INDEX POINTS	PERFORM- ANCE	COMP. INDEX	INDEX POINTS
.00	100.0	60.00	36.50	73.0	43.80	41.85	36.0	21.60
3.80	99.5	59.72	36.70	72.0	43.20	42.00	35.0	21.00
6.00	99.0	59.40	36.90	71.0	42.60	42.15	34.0	20.40
7.80	98.5	59.12	37.10	70.0	42.00	42.30	33.0	19.80
9.30	98.0	58.80	37.30	69.0	41.40	42.45	32.0	19.20
10.70	97.5	58.52	37.45	68.0	40.80	42.60	31.0	18.60
12.00	97.0	58.20	37.60	67.0	40.20	42.80	30.0	18.00
13.20	96.5	57.92	37.75	66.0	39.60	43.00	29.0	17.40
14.30	96.0	57.60	37.90	65.0	39.00	43.20	28.0	16.80
15.40	95.5	57.32	38.05	64.0	38.40	43.40	27.0	16.20
16.40	95.0	57.00	38.20	63.0	37.80	43.60	26.0	15.60
17.40	94.5	56.72	38.35	62.0	37.20	43.80	25.0	15.00
18.40	94.0	56.40	38.50	61.0	36.60	44.10	24.0	14.40
19.40	93.5	56.12	38.65	60.0	36.00	44.40	23.0	13.80
20.40	93.0	55.80	38.80	59.0	35.40	44.70	22.0	13.20
21.40	92.5	55.52	38.95	58.0	34.80	45.10	21.0	12.60
22.40	92.0	55.20	39.10	57.0	34.20	45.50	20.0	12.00
23.40	91.5	54.92	39.25	56.0	33.60	46.0	19.0	11.40
24.30	91.0	54.60	39.40	55.0	33.00	46.50	18.0	10.80
25.20	90.5	54.32	39.55	54.0	32.40	47.00	17.0	10.20
26.00	90.0	54.00	39.65	53.0	31.80	47.50	16.0	9.60
27.60	89.0	53.40	39.75	52.0	31.20	48.20	15.0	9.00
29.20	88.0	52.80	39.85	51.0	30.60	49.00	14.0	8.40
30.20	87.0	52.20	39.95	50.0	30.00	49.80	13.0	7.80
31.00	86.0	51.60	40.05	49.0	29.40	50.80	12.0	7.20
31.80	85.0	51.00	40.15	48.0	28.80	52.00	11.0	6.60
32.50	84.0	50.40	40.25	47.0	28.20	53.80	10.0	6.00
33.00	83.0	49.80	40.35	46.0	27.60	55.60	9.0	5.40
33.50	82.0	49.20	40.50	45.0	27.00	57.60	8.0	4.80
34.00	81.0	48.60	40.65	44.0	26.40	59.60	7.0	4.20
34.40	80.0	48.00	40.80	43.0	25.80	61.60	6.0	3.60
34.80	79.0	47.40	40.95	42.0	25.20	63.60	5.0	3.00
35.20	78.0	46.80	41.10	41.0	24.60	65.80	4.0	2.40
35.60	77.0	46.20	41.25	40.0	24.00	68.00	3.0	1.80
35.90	76.0	45.60	41.40	39.0	23.40	70.80	2.0	1.20
36.10	75.0	45.00	41.55	38.0	22.80	74.00	1.0	.60
36.30	74.0	44.40	41.70	37.0	22.20	80 or More	0.0	.00

If a result falls anywhere between two figures in the "Performance" column, use the number of index points for the poorer result, ie., the lower number of index points.

ANI SERVICE RESULTS

STEP-BY-STEP OFFICES WITH TYPE B AND C ANI

OUTPULSER AND TEST CALL DATA		
1	OP USAGES (OP-)	
2	TEST CALLS REGISTERED (TC)	
3	OTHER CALLS	OUTPULSER
4	(SEE NOTE)	IDENTIFIER
5	TOTAL TEST CALLS (L2+L3+L4)	
6	NET OP USAGES (L1-L5)	
OUTPULSER SERVICE		
7	OP FAILURES (OPF-)	
8	LESS TEST CALLS (L3)	
9	NET OP FAILURES (L7-L8)	
OUTPULSER CONNECTION SERVICE		
10	OP SEIZURE FAILURES (OSF)	
IDENTIFIER SERVICE		
11	2ND TRIAL FAILURES (2TF)	
11 A	2ND ATTEMPT FAILURES (2AF)	
11 B	TOTAL IDENTIFIER FAILURES	
12	LESS TEST CALLS (L4)	
13	NET IDENT FAILURES (L11B-L12)	

TEST FRAME TESTS MADE THIS MONTH (CT)				
14	TESTS MADE THIS MONTH (CT)			
ANI SERVICE RESULTS				
		(A)	(B)	(C)
		OUT PULSER	OUT PULSER SEIZURES	IDENTIFIERS
15	MAXIMUM POINTS	20	20	60
16	FAILURES $\left( \frac{L9}{L10} \right)$			
17	USAGE (L6 ÷ 10,000)			
18	RATIO (L16 ÷ L17)			
19	COMPONENT INDEX			
20	INDEX POINTS			
21	TOTAL ANI INDEX			

22	IDENT. FAILURE REPORTS FROM RECORDING LOCATION	
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REMARKS: \_\_\_\_\_

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NOTE: TEST CALL FAILURES FROM LOCATIONS OTHER THAN OITT, ATTC OR LINE VERIFICATION UNIT. DO NOT SUBTRACT TICKETS WITH DIGITS 3, 4 OR 5 IN CHARACTER POSITION 3.

OFFICE	DISTRICT	DIVISION	STATE	REPORT PERIOD