### PERIODIC TESTS AND TROUBLE INVESTIGATIONS

## TOLL CONFERENCE GROUPING CIRCUIT

# SIX-OUTLET ARRANGEMENT WITH REPEATERS

# SWITCHING PAD, NON-GAIN AND CORD CIRCUIT REPEATER OFFICES

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### 1. GENERAL

1.01 This section lists the circuit order and periodic tests to be made on a toll conference grouping circuit having a six-outlet arrangement with repeaters at the switching pad, non-gain and cord circuit repeater offices.

1.02 This issue replaces issue 2 and includes tests on the new features of the bridge.

1.03 Section 332-430-500 covers the methods of making the tests listed in this section.

1.04 Another section of this series of practices covers a description of this equipment.

1.05 The repeaters associated with this circuit should be maintained in accordance with other sections of these practices covering the maintenance of 22Al telephone repeaters. The volcas circuits maintenance tests are covered in Section 332-432-300.

#### 2. SUMMARY OF TESTS

2.01 Table I summarized the tests to be made on the toll conference grouping circuit and indicates their application as circuit order or periodic tests. The intervals specified should be followed in the absence of other intervals authorized in accordance with Company practices. Tests not indicated with a periodicity, may be applied as service adjustment procedures.

2.02 The operating requirements and limits are also given in the table, opposite each test, for the convenience of the testman.

### TABLE I

#### SUMMARY OF TESTS

TOLL CONFERENCE GROUPING CIRCUIT

	Test Circuit	to be Made	Requirements	Reference Par. in	
Type of Test	Order	Periodically	and Limits	332-430-500	
1000-Cycle <u>Measurements</u>					
Resistance Multiple - Loss between each 2 legs of multiple	X	-	14.0 <u>+</u> 0.5 db	3.01	
Repeater Gain - Each repeater	X	Monthly	As specified on ckt. layout record card + 0.3 db	3.02	
Drop Circuit - (Sw. pad out)	x	-	Nominal value for office	3.03	
Switching Pad	x	Annually	Designated value <u>+</u> 0.4 db	3.03	
Overall Ckt Loss be- tween each 2 legs of the ckt. with both pads in	x	Monthly	<pre>10.0 db plus twice the nominal office drop loss <u>+</u> 1.0 db</pre>	3.04	

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# TABLE I (Cont'd)

	Teat	to be Made		Reference	· ·
Type of Test	Circuit Order	Periodically	Requirements and Limits	Par. in <u>332-430-500</u>	
Overall Ckt Disabled Condition					
Loss between each 2 legs of the ckt. with both pads in	X	Quarterly	At least 30 db	3.05	
Overall Ckt <u>One-Way Condition</u>					
Loss from incoming leg to each outgoing with both pads in	X	Quarterly	10.0 db plus twice the nominal office drop loss <u>+</u> 1.0 db	3.06	<b>_</b>
Loss from any outgoing leg to each of the other legs	x	Quarterly	At least 30 db	3.06	
Gain-Frequency Measurements					
Each Repeater	X	Annually	(Note A)	3.07	
Passive Singing Point Tests					
Each leg of Resistance Multiple - With passive repeater termination on other legs	X	-	At least 30 db	3.10	)
Each Drop Ckt. 1. To test drop -	x	-	At least 15 db	3.14(1)	
pad out 2. To idle drop -	X	-	At least 15 db	3.14(2)	
pad in 3. From test drop - pad out	x	-	At least 20 db	3.14(3)	
Active Singing Point Tests			Non-Volcas Volca Leg Leg		
Each leg of Grouping Circuit - Pad out - With other legs in idle drop condition	X	Quarterly	Switching Pad and Non- Gain Off 15 db 16 d Cord Circuit Rep. Office 6 db 8 d	ď	<b>`</b>
Service Performance Tests					
With one local and five toll connections With six local con-	X	-	(Acceptable ( transmission ( between all ( stations	3.18	
nections					)

Note A - The repeater shall meet the following gain-frequency requirements:

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	DB De	viation from	1000-Cycl			
Minimu	ក	Norma W_W	1 F-W	Maximum W-E E-W		
<u>w-L</u>	<u></u>	<u>N - 15</u>	<u>9</u>	<u> </u>		
-1.0 -0.2	-1.0 -0.2	-0.4	-0.4 0	+0.2 +0.2	+0.2 0.2	
-0.2	-0.2	õ	+0.1	+0.2 +0.3	+0.3 +0.6	
-0.4 -5.2	-0.2 -0.1	-2. <b>2</b>	+0.2 +0.5	-0.2	+1.1	

Freq.

Note The typical equalizer setting to give the above characteristics is: Leads "L", "F" and "R" are all connected to terminal 1 of the 82G retard coil.