MICROWAVE ANTENNAS
KS-16320 PASSIVE REFLECTORS
MAINTENANCE
PERIODIC TEST INTERVALS

1. GENERAL

1.01 This section describes the maintenance routines to be followed for KS-16320 passive reflectors.

1.02 Inspect passive reflectors whenever servicing of the reflector assembly is necessary for operational reasons. In any event, examine the assembly completely approximately six months to one year after installation to ascertain its durability. Scheduling of subsequent inspections in the absence of operational servicing is to be determined by local supervision. Such factors as past experience with the reflector in question and with other similar equipment in the vicinity (taking relative age into account), the degree of exposure of the reflector to weather or industrial atmosphere, the frequency and severity of storms, the over-all dependability requirements for the system, and ease of access to the station site will have a bearing on the need for scheduled preventive maintenance.

1.03 Inspect the reflector thoroughly, at least as frequently as the supporting structure is inspected, and at no longer than 3- to 5-year intervals. At the option of supervision it may be desirable, with the aid of optical equipment, to inspect reflectors from the ground at intervals of approximately six months to one year to detect any general indication of looseness, distortion, or damage.

Note: Adjustment of guys on guyed structures may require reorientation of reflectors.

1.04 Maintenance is to be performed only in clear weather with winds not exceeding moderate velocities. Since appreciable time can be expected to elapse during the climbing of most structures and performance of the maintenance routine, the work should not be started when adverse weather conditions are anticipated within a conservatively estimated time interval.

1.05 Careful judgment is to be exercised as to the minimum number of persons required on the structure to assure safety. ***Do not attempt to climb unless at least one other person associated with the operation is in attendance on the ground.***

2. MAINTENANCE SCHEDULE

ITEM NO.*		DESCRIPTION	INTERVAL	REFERENCE ‡
List 1	List 2			
3B	3B	Angle Assem	As Specified†	2
4B	4B			
5B	5B			
6B	6B	Reflector Assem		5
7B	13B	Lower Mount Assem		3
8B	7B	U Bolt Assem		1
9B	8B	Top Swivel Assem		2
10B	12B	Top Mount Assem		
11B	9B	Clamp Assem		3
12B	10B			
13B	11B			
26	26	Pipe		1
32B	32B	Strut Assem		4

* Item numbers refer to Fig. 1 of Section 402-423-400 for list 1 reflectors and Fig. 2 of the same section for list 2 reflectors.

† Refer to 1.02 and 1.03 of this section.

‡ Numbers refer to subparagraphs contained in 2.01 of Section 402-423-502 for list 1 reflectors and 2.02 of the same section for list 2 reflectors.

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