

ORDER

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
WESTERN REGION

WE 6360.23

9/12/79

INTERIM REMOTE SYSTEM MONITOR (RSM) PROGRAM - MAINTENANCE
SUBJ: OF GROUND BASED TRANSPONDERS

1. PURPOSE. This order describes the procedures for the maintenance and engineering support of RSM ground based transponders. It also establishes limitations on code and location changes. (See Appendix 1)
2. DISTRIBUTION. This order is distributed to the branch level in Airway Facilities and to Airway Facilities sector offices.
3. CANCELLATION. This order supersedes and cancels previous instructions issued in letter from Chief, Maintenance Engineering Branch, AWE-430, to All Managers, Airway Facilities Sectors, Western Region, subject: "CRAM Program - Maintenance of ATC Transponders" dated December 20, 1974, and Order WE 6360.22 dated May 25, 1977.
4. ACTION.
 - a. Airway Facilities Sectors having custody of the RSM (See Appendix 1) are responsible for equipment maintenance. When a transponder fails, the using facility (ARTCC or ARTS) will notify custodian sector. The RSM service will be restored in accordance with instructions for restoration of level "A" facilities. The user(s) will be notified by sector personnel when the service has been restored. The custodian sector is encouraged to use its own resources to repair failed transponders and power supplies. However, if repair is beyond the scope of the sector, the transponder should be taken to the nearest Genave authorized commercial avionics shop for repair and services paid for from AFS funds. Generally, most troubleshooting and repair of these transponders is well within the scope of FAA sector technical resources. Because of beacon RFI at and near radar facilities, it is frequently difficult or impossible to troubleshoot transponders; therefore, troubleshooting and testing is best undertaken at a site remote from ATC beacon or TACAN transmitters.
 - b. Special parts or units unique to Genave transponders may be ordered directly from the manufacturer if not available from local avionics shops: address and phone number of Genave is included in the Beta 5000 maintenance handbook.
 - c. Power supplies which cannot be repaired locally should be sent to the Enroute Automation/Radar Section, AWE-439, for exchange or repair. No point count, additional staffing, or location identifiers apply to these units.

Distribution: A-X (AF)-3; A-FAF-2/3 (LTD)

Initiated By: AWE-430

5. RSM SYSTEM DESCRIPTION.

- a. Two commercial Genave Beta/5000 Transponders. (One is shelf spare).
- b. Dual 14 VDC power supplies. (One is shelf spare).
- c. Maintenance manual for the power supply and transponder.
- d. Shipping container (prevent shipping damage).
- e. Antenna (weatherproof type at some locations).

6. RESTRICTIONS. All transponders will operate on the same discrete code (1275). Also, RSM systems will not be relocated without coordination with AWE-430.


W. R. FREHSE
Chief, Airway Facilities Division

BEACON TRANSPONDER LOCATION SITE	RESPONSIBLE AF ELEMENT	DISCRETE CODE	BEACON SYSTEM USING TRANSPONDER	CONTROLLING FACILITY
Sutters Butte, CA 39-12-21 121-49-11	Marysville AFSFO	1275	Red Bluff ARSR Sacramento ASR Beal ASR McClellan ASR	Oakland ARTCC AFS
Redwood Park 37-49-14 122-11-03	Oakland AFS	1275	Half Moon Bay ARSR Mill Valley AFS Oakland ASR Moffet ASR	Oakland ARTCC AFS
Santiago Peak, CA 33-42-40 117-31-54	Long Beach AFS	1275	San Pedro ARSR El Toro ASR Los Angeles ASR LGB ASR	Los Angeles ARTCC AFS
Mina Vortac, NV 38-33-55 118-01-55	Tonopah AFSFO	1275	Tonopah ARSR	Oakland ARTCC AFS
Marion Telco Re- peater, Lovelock, NV 39-46-05 118-50-47	Fallon AFSFO	1275	Fallon ARSR	Oakland ARTCC AFS

APPENDIX 1. TRANSPONDER LOCATOR

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BEACON TRANSPONDER LOCATION SITE	RESPONSIBLE AF ELEMENT	DISCRETE CODE	BEACON SYSTEM USING TRANSPONDER	CONTROLLING FACILITY
Julian "A" RCAG 33-06-47 116-34-50	San Diego	1275	Mt. Laguna ARSR Miramar ASR	Los Angeles ARTCC AFS
Tembler RMLR 35-20-40 119-49-40	San Francisco Paso Robles AFSFO	1275	Paso Robles ARSR	Los Angeles ARTCC AFS
Big Pines RMLR 34-22-25 117-42-21	Lancaster Palmdale AFSFO	1275	Boron ARSR EDW ASR	Los Angeles ARTCC AFS
Boulder Vortac, NV 35-59-44 114-51-46	Las Vegas AFS	1275	Las Vegas ARSR & ASR	Los Angeles ARTCC AFS
Scottsdale, AZ 33-37-20 111-54-51	Phoenix AFS	1275	Phoenix ARSR	Albuquerque ARTCC AFS
Cavlin, NV 40-39-18 116-16-23	Reno BAM AFSFO	1275	Battle Mountain ARSR	Salt Lake ARTCC AFS