

**ORDER**

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
SOUTHWEST REGION

SW 6350.12C

2/10/98

SUBJ: FAILURE OF EMERGENCY FUNCTION ON COMMON DIGITIZER (CD) – CD-1 AND CD-2 EQUIPMENT

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1. **PURPOSE.** This order alerts personnel of a problem with CD-1 and CD-2 operation and provides a routine test to prevent it.
2. **DISTRIBUTION.** This order is distributed to the branch level of Airway Facilities Division and the Air Traffic Division, all Airway Facilities System Management Offices (SMO's) having jurisdiction over long range radar/CD-1/CD-2 facilities, and all ARTCC facilities.
3. **CANCELLATION.** Order SW 6350.12B, Failure of Emergency Function on Common Digitizer (CD)-1/2 Equipment, dated March 2, 1990 is canceled.
4. **ACTION.** All affected SMO Managers will take the necessary steps to check the emergency function of the CD-1/2 equipment at each radar site on both 7700 and 7600 codes when radar data processing is in operation, as follows:
  - a. At the radar site on the CD-1/2 test target generator, set the test target generator to trigger the radio frequency (RF) test set to produce 4 beacon RF test targets at 0, 90, 180, and 270 degrees, all a nominal 30 ACPS wide. Set the beacon RF test set to generate the beacon codes of 7700 or 7600 with a nominal 2 volts of video into the CD-1/2. Set the range of the beacon targets to a nominal 128 nautical miles.
  - b. At the ARTCC systems maintenance monitor console (SMMC) plan view display (PVD) with the radar site selected:
    - (1) Radar failure (RDOF) or Emergency (EMRG) will be flashing.
    - (2) A fixed altitude will be flashing with it.
    - (3) The target will be approximately 0 degrees, 90 degrees, 180 degrees, and 270 degrees, at a range of 128 miles.
  - c. The ARTCC Facility Manager will establish documentation, frequency of test, and coordination between the radar sites and the ARTCC.

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Distribution: A-X (AT/AF) - 3; A-FAF-0 (LTD)

Initiated By: ASW-471

**5. BACKGROUND.** The CD-1/2 at a radar site failed to respond to an emergency beacon transmission, and as a result, the data block displayed on the PVD in the ARTCC did not flash. The bit that is set in the CD-1/2 to provide this function was inoperative. This problem could cause an incident for Air Traffic.

**6. EXPLANATION OF CHANGES.** This directive has been updated to reflect current Airway Facilities field organizational titles.



for Marcos Costilla

Manager, Airway Facilities Division