

ORDER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

SW 6330.1

SOUTHWEST REGION

3/30/01

SUBJ: ASDE-3 POWER SWITCHOVER PROCEDURE

- 1. PURPOSE.** This order provides procedures for emergency power switchover to an engine generator.
- 2. DISTRIBUTION.** This order is distributed to branch level in the Airway Facilities (AF) Division, to selected AF field offices having ASDE-3 equipment, and ASW-510.
- 3. BACKGROUND.** With its present hardware/software, an ASDE-3 will not accommodate a 15-second maximum switchover time to the emergency generator without modifications. The primary problem is the immediacy of protection of the pedestal drive motor against phase loss. It is suggested that the following procedure be implemented at those sites, which do not have the pedestal drive motor powered by an Uninterrupted Power Source (UPS) system.
- 4. PROCEDURES.** If inclement weather is anticipated, perform the following actions before attempting engine generator switchover. Paragraph 4a assumes an Airway Transportation Systems Specialist (ATSS) is available. If an ATSS is not available, standard operating procedures will be in affect.
 - a. Coordinate release of the system from Air Traffic before proceeding.
 - (1) At the Remote Maintenance System (RMS) terminal, type: **con -request** {ENTER}.
 - (2) Have Air Traffic depress the flashing *CONTROL* switch on the ASDE-3 CCU. Control of the system will now be at the RMS terminal.
 - (3) Stop antenna rotation by typing: **rotate -disable 1** {ENTER}.
 - (4) AFTER the system responds with the message *System Command Processed*, the system should revert to the *STAND BY* mode of operation. Both transmitters will be radiating into dummy load with no antenna rotation.
 - (5) The engine generator should now be switched over to supply prime power to the system.

- b. After switchover has been confirmed, do the following steps:
- (1) At the RMS terminal, type the following: **rotate -enable 1** (ENTER).
 - (2) After the message *System Command Processed* appears on the RMS terminal screen, type: **inquiry - ASCII** (ENTER).
 - (3) Observe the rotation entry at the bottom left corner of the screen. When the entry indicates approximately 60 rpm, type: **mode -standby online 1** {ENTER}.
 - (4) After a short delay for waveguide switch position change, the system will indicate an *ONLINE* status. Check the maintenance terminal for proper radar presentation; if all right, type: **con - transfer** {ENTER}.
 - (5) ASDE-3 system control has been restored to the tower CCU, and the system is in *NORMAL* mode of operation.

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