MASTER TIMING CIRCUIT SD-25633-01
DAYLIGHT SAVING TIME AND LEAP YEAR CHANGES
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers the procedures to be followed in changing the time setting of the master timing circuit SD-25633-01 in No. 1 crossbar offices arranged for AMA to comply with the legal time change from standard time to daylight saving time and vice versa and to arrange the circuit to count 29 days for February in a leap year.

1.02 This section is reissued to bring it in conformity with other material in the Plant Series. In this process marginal arrows have been omitted.

1.03 In offices that are unattended during hours specified in this section, procedures outlined should be performed in accordance with local instructions.

2. APPARATUS

2.01 No. 322A (make-busy) plugs, as required.

3. METHOD

Time Changes

3.01 Determine if it is satisfactory to transfer the time control from one master timing circuit to the other. Approximately 20 minutes before the time to change the time setting of the master timing circuit for the change-over to daylight saving time or back to standard time, check that the TT (timer transfer) key is normal, indicating that the even master timing circuit is in control. If it is operated, restore it to normal.

Note: It is important that all of the procedures in this section shall be completed before the hour to prevent incorrect information from being recorded on the tapes.

3.02 Operate the CKL key. The ET (even timer) and the time check lamps will light.

3.03 Approximately 15 minutes before the time change, block nonoperated the UH relay of the even master timing circuit for 7 or 8 seconds. The OS (out of synchronism) lamps of each recorder and the OSO (out of synchronism odd) lamp of the odd master timing circuit will light. Within one second, the SSF (selector synchronism failure) lamp will light and the major alarm will sound.

3.04 Momentarily operate the ACO (alarm cutoff) key to silence the alarm.

3.05 Make each regular recorder and emergency recorder busy by inserting make-busy plugs in the MB- jacks, except any recorder which may have been transferred to the emergency recorder as indicated by the presence of a make-busy plug in the TN- or RTN- jack. This will place an out-of-synchronism record on each tape. Observe that the MTE (master timer even) and MTO (master timer odd) lamps light. When the record has been placed on all recorder tapes, the MTE and MTO lamps will be extinguished.

3.06 Operate and hold the CLT (check lamp transfer) key while performing procedure (a) or (b), then release the CLT key.

(a) ***Time Change from Standard to Daylight Saving Time:*** Manually operate and release the HUH relay and then, if necessary, the HTH relay of the odd master timing circuit until the HU- (hour units-) and HT- (hour tens-) check lamps indicate that the time has been advanced by one hour. For example, check lamps HT0 and HU2 indicating 02 hour should be lighted if the foregoing procedure was performed between 1 a.m. and 2 a.m. (01 hour). Similarly, check lamps HT0 and HU0 indicating 00 hour (midnight) should be lighted if the change was made between

11 p.m. and midnight (23 hour). In the latter case, check that DU- (day units-) and the DT- (day tens-) check lamps indicate that the day has been advanced by one. Also check that the M- (month-) check lamp indication has ***not*** changed, even if the time change was made on the last day of the month. (The master timing circuit provides an arrangement whereby the month indication is changed at the following 3 a.m. period.)

(b) ***Time Change from Daylight Saving to Standard Time:*** Manually operate and release the HUH relay of the odd master timing circuit until the HU- and HT- check lamps indicate that the time has been retarded by one hour. For example, check lamps HT0 and HU0 indicating 00 hour should be lighted if the foregoing procedure was performed between 1 a.m. and 2 a.m. (01 hour). Similarly, check lamps HT2 and HU2 indicating 22 hour should be lighted if the change was made between 11 p.m. and midnight (23 hour).

3.07 Operate the TT key. The ET and OSO lamps will be extinguished and the OT and OSE lamps will light. Observe that the recorder OS lamps are extinguished.

3.08 Operate the CMBE (make-busy even) key. The CMBE lamp will light.

3.09 Momentarily operate the S key. The SO (synchronize to odd) lamp will light while the even master timing circuit selectors are stepping to the synchronized position, after which observe that the OSE lamp is extinguished.

3.10 Restore the CMBE key. The CMBE lamp will be extinguished.

3.11 Restore the recorders to service by removing the make-busy plugs from the MB-jacks. This will place an in-synchronism record on each tape.

3.12 Momentarily operate the AR key. The SSF lamp will be extinguished.

3.13 Restore the CKL key. All lamps will be extinguished.

3.14 Restore the TT key to normal if it is desired to place the even master timing circuit in control.

Leap Year Changes

3.15 To arrange the master timing circuits to count 29 days for February of leap year, perform the following operations at some time before 11 p.m. on February 28 of the leap year.

(a) With the TT key normal, disconnect the optional wiring strap, designated "Z" option, between terminals 8 and 9 on arc 2 of the DU selector of the odd master timing circuit.

(b) Operate the TT key and perform the same operation on the even master timing circuit.

(c) Restore the TT key to normal.

3.16 As soon as practical after 12:01 a.m. of February 29, operate the CKL key. Observe that the M2, DT2, and DU9 check lamps are lighted, indicating the date as February 29. Check that the same date is indicated with the CLT key operated. Restore the CKL key.

3.17 After 3:30 a.m. of March 1 of a leap year, with the TT key normal, operate the CKL key. Observe that the M3, DT0, and DU1 check lamps are lighted, indicating the date as March 1. Check that the same date is indicated with the CLT key operated. Restore the CKL key.

3.18 Restore the wiring ("Z" option) between terminals 8 and 9 on arc 2 of the DU selector of the odd master timing circuit. Check the wiring by connecting ground to terminal 8 of arc 2 of the DU selector and test that this ground is extended to arc 1, terminal 2 of the M selector of the odd master timing circuit.

3.19 Operate the TT key and proceed as in 3.18 for the even master timing circuit.