

## 702C POWER PLANT MANUAL START CONTROL OF GENERATOR EQUIPMENT OPERATING METHODS

### 1. GENERAL

1.001 This addendum supplements Section 167-705-306, Issue 3. Place this sheet ahead of Page 1 of the section.

1.002 This addendum is reissued to add a reference to the KS-20522 Controller and to update the List of Tools and Test Apparatus. The Equipment Test List is not affected.

The following change applies to Part 1 of the section:

- (a) Add the following paragraph to Part 1.

1.12 The countercells originally used in the discharge control circuit are wet alkaline CEMF cells. The wet alkaline cells generate explosive gases which present a potential fire hazard. The wet alkaline CEMF cells are replaced by KS-20019 L1 solid-state silicon CEMF cells. The silicon countercells eliminate the fire hazard presented by wet cells, since the silicon countercells do not generate explosive gases. Should the silicon countercell fail, due to abnormal operating conditions, the cell will short-circuit to prevent the possibility of an open battery string. A hot surface warning label (P-840224018) should be applied to the battery stand shelves for the silicon countercells.

### 2. LIST OF TOOLS AND TEST APPARATUS

The following change applies to Part 2 of this section.

- (a) Replace the 411B Test Pick, in the list under Tools, with a 411C Test Pick.

### 4. ROUTINE CHECKS

The following change applies to Part 4 of the section.

- (a) Add the following note directly after 4.11 (b).

**Note:** The KS-20522 Controller has been developed to provide in a solid-state unit the same functions as contacts in the ammeter relays. The controller contains no moving parts or heated filaments; therefore it should provide more reliable service with far less maintenance than the mechanical contacts. The KS-20522 Controller is available as part of a modification kit which includes mounting hardware, wire, installation and wiring information, and, where required, some minor external components. There will be a modification kit available for several different applications. The modification kit for the J86284K and J86284L power plants (24-volt control) is coded as J86741A, List 8. The modification kit for the J86284K and J86284L power plants (48-volt control) is coded as J86741A, List 9. For additional information, see Section 024-360-201, SD-82023-01, and associated circuit description.

- (b) Add the following note directly after 4.12, (10).

**Note:** Do not perform (10) through (16) for the J87224 rectifier.