

TMC SPECIFICATION

NO. S S1008

REV:

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COMPILED:

CHECKED:

APPD:

Y. W. Kwon
9/1/25

SHEET 1 OF 2

TITLE:

TEST PROCEDURE

KIT 180

SECTION 2

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CC

COMPILED

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TITLE:

KIT 180 SECTION 2.

APPROVED

MODIFICATION FOR GPT-10K WHEN USED AS A DRIVER FOR GPT-40K

1. GPT-10K MODIFICATION.-Since the PA (10K) is only used as a 50-ohm unbalanced transmitter, there is no longer need for the antenna tuner. In its place a three-position switch and three 900-watt, 140-ohm resistors are used. The three position switch has three modes of operation.

TUNE- For preliminary tuning of PA (10K) before applying power to the PA (40K).

OPERATE- For connecting the RF output of the PA (10K) to the input of the PA (40K).

EMERGENCY-In case of failure of PA (40K), the output of the PA (10K) can be switched into a balanced or unbalanced antenna.

2. INTERLOCK SYSTEM.-The PA (10K) and the PA (40K) are designed to work as a single integrated transmitter except in case of emergency. This means that a failure in one causes power to be removed from both simultaneously. A wafer switch that tracks the main switch's three modes of operation is mounted on the mode switch shaft.

TUNE- Opens the PA (40K)'s interlock system to prevent high voltage from being applied to the PA (40K) during the process of tuning the PA (10K), and applies voltage to the TUNE indicator on the PA (40K)'s main front panel.

OPERATE- Closes PA (10K)'s interlock circuit through PA (10K)'s cabling, applies power to the OPERATE indicator, and permits PA (40K)'s high voltage to go on.

EMERGENCY-Completes the PA (10K)'s interlock system, and opens the PA (40K)'s interlock system.

NOTE- Additional details on this interlock system will be covered in Section 3, S1009.

