CHART 1: ADJUSTING THE OUTPUT OF THE 71C MILLIWATT REFERENCE GENERATOR

The output power of all the outlets supplied by a J94071C milliwatt generator is adjustable by a screwdriver-operated potentiometer, designated MW ADJ, located on the generator unit. The adjustment herein described establishes 1 mw at the 600-ohm maintenance outlet jack, also located on the generator unit. This adjustment procedure should be followed when the generator is initially installed; when the generator is replaced; when a ***check*** of the generator output power at the maintenance outlet, with all individual outlets properly terminated, indicates need for a readjustment; and before individual outlets are checked and adjusted. Procedures for adjusting the output power at individual outlets, which consist of adjustable distributing networks, and for ***checking*** the output power at the maintenance outlet, are given in Section E30.223 (A204.474).

Note: Before the MW ADJ potentiometer is adjusted, all outlets should be properly terminated and the generator artificial load properly strapped in accordance with Section E40.377.00 (A702.630.00).

To avoid inadvertent or unwarranted changes in the setting of the MW ADJ potentiometer, it is accessible only after removing the cover from the generator chassis.

APPARATUS:

22A Milliwatt Reference Meter per J94022A (preferred)
7A Transmission Measuring Set / 2AA Milliwatt Reference Set — alternate equipment
Patch cords or test leads as short as possible, equipped with ***clean plugs.***

STEP	PREFERRED PROCEDURE	REMARKS
1	Calibrate the 22A set according to the instructions given on the face of the set.	
2	Connect the 22A to the 600-ohm maintenance outlet jack on the generator panel. Exercise the MW ADJ potentiometer on the generator panel by moving it back and forth to remove surface deposits.	
3	Adjust the MW ADJ potentiometer until a reading of precisely 0.0 dbm is obtained on the 22A.	

STEP	ALTERNATE PROCEDURE	REMARKS
1	Calibrate the 7A set in accordance with Section E40.220 (A702.610), Chart 1, Steps 1 through 4.	

STEP	ALTERNATE PROCEDURE	REMARKS
2	Calibrate the 2AA set in accordance with Section E40.628 (A702.678).	
3	Connect the 600-ohm output of the 2AA set to the 7A set.	
4	Adjust the reference controls of the 2AA set until a reading of precisely 0.0 dbm is obtained on the 2AA set galvanometer.	
5	Read the 7A set and record the reading.	Do not move the 7A set after this reading. Otherwise, repeat Steps 5 through 11.
6	Reverse the polarity of the leads or cord between the 2AA and 7A sets.	
7	Read the 7A set and record the reading.	
8	Average the readings obtained in Steps 5 and 7, taking the signs into account.	
9	Adjust dial 3 of the 7A set until the average obtained in Step 8 is precisely 0.0 dbm. Repeat Steps 4 through 8. The readings obtained in Steps 5 and 7 should be above and below zero by the same amount.	
10	Connect the 7A set to the 600-ohm maintenance jack outlet on the 71C. Exercise the MW ADJ potentiometer on the generator unit by moving it back and forth to remove surface deposits.	
11	Adjust the MW ADJ potentiometer until a reading of precisely 0.0 dbm is obtained on the 7A set.	