TYPE 2. ANTENNA SYSTEMS USING COAX BETWEEN THE COUPLER AND ANTENNA.

Remove the P-2 from between the transmitter and the coupler, and connect it to the output of the coupler, between the coupler and the antenna.

☐ Turn the controls on the P-2 to the following settings: SENSITIVITY to 1, and the POWER switch to FORWARD.

☐ Turn the transmitter on and adjust the SENSITIVITY control on the P-2 until the meter reads 1.0 on the REL. POWER scale.

☐ Adjust the controls on both the transmitter and the output circuit of the coupler for maximum reading on the meter. The SENSITIVITY control should be turned down to keep the reading within the range of the meter. Adjust the output circuit of the coupler in the same manner as the input circuit—by changing the setting of a capacitor, or a tap on the coil, or both.

☐ When the output circuit has been adjusted, return the P-2 to the input side of the coupler (between transmitter and TVI filter). Check the matching. If necessary, repeat the adjusting of the coil taps and/or capacitor.

☐ When the transmitter and the input and output circuits of the coupler have been adjusted for maximum, insert the P-2 on the antenna side of the coupler. Set the P-2 to read CAL. on the SWR scale. Turn the POWER switch on the P-2 to REFLECTED. Note the SWR indicated on the SWR scale.

If the reading on the meter indicates an SWR greater than 1 to 1, NO AMOUNT OF ADJUSTMENT TO THE ANTENNA COUPLER WILL LOWER THE SWR. The SWR indicated on the meter is caused by a mis-match between the antenna and the feed line, and this mis-match cannot be corrected by the coupler. It must be corrected at the antenna.

When the coupler has been adjusted to indicate the maximum power output, proceed to the instructions under DETERMINING THE RESONANT FREQUENCY OF THE ANTENNA.

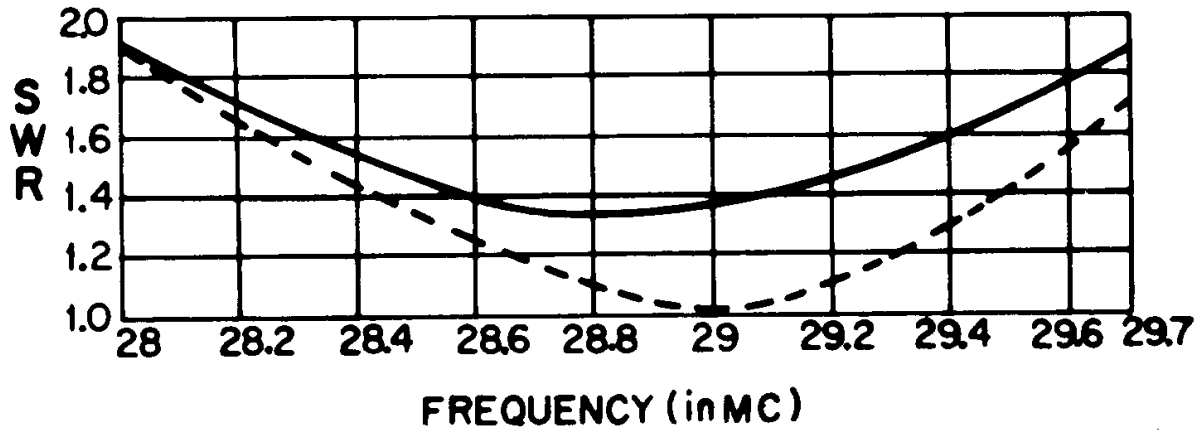

FIGURE 9.