

TO:

FROM: Microwave Division

SUBJECT: Power Meter Leveling
the 8690A Sweep Oscillator

The grid leveled R. F. Units for the 8690A are relatively difficult to power meter level. What happens is the leveling loop will break into oscillations when the power meter is down ranged to reduce the R. F. output power.

The power meter must be up ranged to stop the oscillations. Then the ALC Gain adjustment on the rear panel should be reduced and down ranging the power meter tried again.

Once the loop starts to oscillate the only way to stop the oscillation is to up range the power meter.

Reducing the ALC Gain when the loop is oscillating has no effect.

All R. F. Units, both grid and pin leveled, are checked and must level over at least a 20 db range.

The pin units are much easier to power meter level. When your customers are using power meter leveling where they are controlling the power level over more than a 10 db range they would probably be happier with a pin leveled R. F. Unit.

Dave Widman

2/67 - 4