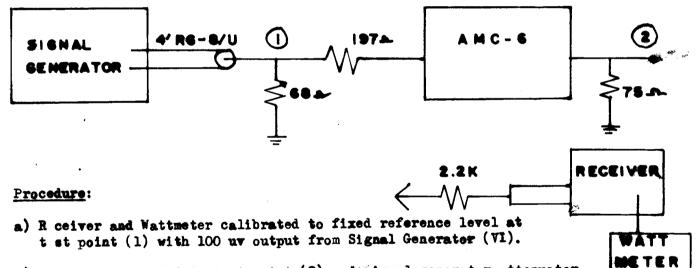
5/1/55	TMC SPECIFICATION	NO.	8 - 10000.
CLB BY	TITLE: TEST PROCEDURE AMC-6-2/2009		JOB
AOVED	Caw.		

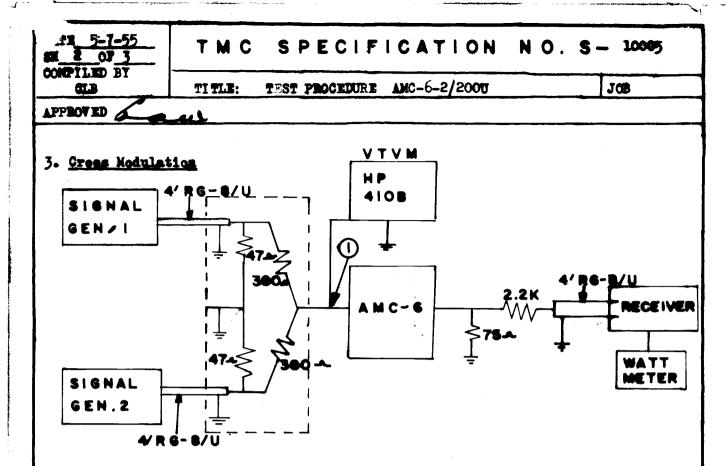
1. Standard conditions for test:

- a) Power Supply input: 115V 60 c/s Single Phase A.C.
- b) R.F. Input through standard drawing consisting of 220 ohm non reactive resister.
- c) Signal Generator R.F. Input to AMC shall be supplied from Measurement Engine ring C. Model 80 or 82 signal generator.
- d) Receiver: Hammerlund Model SP600 or Halicrafter SX62.
- e) Ambient Temperature: to be between 20°C and 30°C
- f) Filter Switch on AMC to be in "ON" position for all test.
- g) All resistors used in conjunction with test to be non reactive.
- h) V.T.V.M. H.P. 410B

2. Gain Measurements:



- b) Receiver connected to test point (2) and signal generator attenuator adjusted (V2) to give the same reference level as in (a).
- c) Power gain in db = 20 $\log_{10} \frac{V1 \times 2}{V2}$. $\sqrt{\frac{200}{75}}$ Power loss in db = 20 $\log_{10} \frac{V2}{V1 \times 2}$. $\sqrt{\frac{75}{200}}$

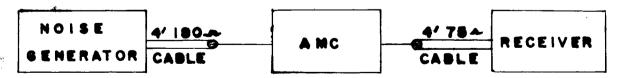


- (a) Each Signal Generator attenuator set to 200,000 uv and output adjusted at its prescribed frequency so that an unmedulated signal of .2 volts RMS R.F. appears at Test point 1 measured with HP 4158 VTVM.
- (b) Attenuator settings reduced to 7100 mv and modulation of 30 1000 c/s applied to Signal Generator No. 1.
- (c) Receiver tuned to difference frequency and output adjusted to giv reference level on the wattmeter.
- (d) Cutput of Signal Generator No. 2 reduced to zero.
- (e) Signal Generator No. 1 retuned to difference frequency, and attenuat retting adjusted to obtain reference level on the watterfer.
- (f) Sparious response is given by:

whence $V_1 = 7,100$ uv

and V2 m attenuator setting obtained in (e)

4. Voice Pactor

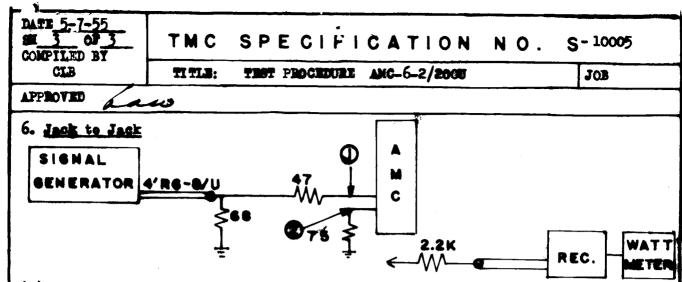


Measured in accerdance with Proceedings of the I.R.E. July 1953 paras 10.1.2.2, 10.1.2.2.1, 10.1.4

5. Input and Output Impedances

To be m asured with AMC Pow r GH and to fall within limits prescribed in RGH Spec. L.C. 190.

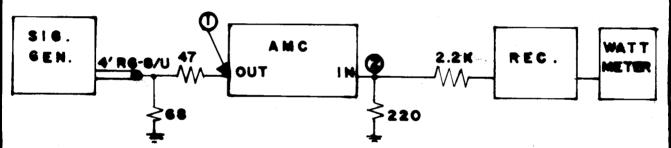
Measurements to be made at two sp t fr quench s.



- (a) Signal Generator set to give 10 uv output and receiver and wattmeter connected to test point 1 and adjusted to a convenient reference lev 1.
- (b) Rec iver connected to test point 2 on adjacent jack, and Signal Generator attenuator adjusted to give reference level in (a).

db attenuation - 20 $\log_{10} \frac{\text{Y2}}{\text{V1}}$

7. Back to Front Attemetics



- (a) Rec iver connected to test point (1) and calibrated for output of 60 M.W. wh n signal generator output is 10 uv at 2.5 m/cs modulated 30% at 1000 cycles.
- (b) Rec iver connected to test point (2) and attenuator setting adjusted until wattmeter again indicates 60 N.W.
- (c) Repeat at 28.0 m/cs.

Attenation given by:-

5.65 = 20 los 10 T2

where V2 is attemptor setting recorded in (b).

In all tests results are to be such as to comply with NOW Spec. LC190.