



Field Engineering Bulletin

PROPERTY OF SPECIFICATIONS
AND STANDARDS ENGINEERING

1 Megacycle Standards,
Repair and Recalibration Procedure for

BULLETIN
NUMBER

21B

DISCUSSION:

Some of the 1 megacycle standards, TMC Part No. NF-105, used in Model AN/FRT-39(), AN/FRT-40(), AN/FRT-62(), AN/FRT-70, AN/FRT-74 series transmitters (specifically in the O715/URA-30() frequency standards) and NF-109-2 used in TMC model DDR-5 (AN/FRR-60(v), and the AN/FRR-72/73/74 series receivers), due to normal aging, are approaching or have passed the limits of their trim range and can no longer be set on exactly 1.0 megahertz. Under normal conditions of operation, the aging rate is such as to remain well within the trim range during and beyond the one year warranty period. Experience has shown that the trim range is exceeded only after two to three years of operation. This means, therefore, that at the time the limits of the trim range are reached, the standard is a well-aged unit with a stability approaching 1 part in 1;000,000,000 per day and therefore represents a dollar value far in excess of its initial cost. These standards should not therefore be discarded or subjected to mistreatment upon reaching the limits of their trim range since they can be factory re-padded and recalibrated at nominal cost.

Accordingly a fixed price of \$95.00 has been established for factory re-padding and recalibration of the NF-105 and NF-109-2 standards which have drifted out of their trim range. In addition, a fixed price of \$200.00 is hereby established for factory overhaul of these standards including re-padding and calibration should this be required. Failures within the warranty period will continue to be handled under the terms of the TMC standard warranty.

PROCEDURE:

In the event it is desired to return these standards for re-padding and recalibration or for repair and recalibration, the following procedure should be followed:

- a. A purchase order in the amount of \$95.00 for factory re-padding and recalibration or in the amount of \$200.00 for factory overhauling should be forwarded to:

THE TECHNICAL MATERIEL CORPORATION

700 Fenimore Road
Mamaroneck, New York 10543

Attn: Director of Engineering Services

- b. Upon receipt of the purchase order, a Return Authorization Form will be issued. This form must be secured to the *outside* of the shipping container when returning the material. *No material should be returned without a return authorization.* TMC will assume no liability for material so returned.
- c. All material returned should be forwarded, transportation charges prepaid to:

THE TECHNICAL MATERIEL CORPORATION

700 Waverly Avenue
Mamaroneck, New York 10543

- d. Return transportation charges for repaired units will be borne by TMC.

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