

## FIELD STRENGTH MEASUREMENTS

### PARTIAL OR SKELETON PROOF

#### Number of Points to Measure

Partial proof	10-12 points between 2 and 10 miles
Skeleton proof	3-5 points between 2 and 10 miles

The points to be measured are the same locations measured in the last full proof made. On radials with monitoring points, the monitoring point must be one of the points measured. On some radials, a minimum of 10 points will not be available between 2 and 10 miles; in these cases measure all points between 2 and 10 miles and then measure points closer or further from antenna to make 10-12 points.

It is very important that every effort be made to locate and measure at the same location measured in the full proof.

#### Recording Measurement Data

Record on forms furnished (sample attached) the information called for. It is important to record the time of each measurement to the nearest minute.

Observe null depth while making measurement. Rotate FS meter 90° from direction of maximum field, minimum field observed is null depth.

Null ratio greater than 5 to 1	- good	)	
Null ratio between 5 to 1 and 2 to 1	- fair	)	Approximates
Null ratio less than 2 to 1	- poor	)	

#### Recording Transmitter Data

For every day that field strength measurements are made, record a complete set of readings. Ep, Ip, Base I ND, Common Point I, monitor readings of phase and ratio, and all base currents.

Make set of readings before starting measurements and again at end of day.

### Field Strength Meters

If more than one field strength meter is to be employed, a comparison of their calibrations must be made. Take all meters to be used to a number of locations, at least one location for each attenuator setting to be encountered, and measure the field with each meter in precisely the same location and record data. Record make, model, serial number, and last calibration date. At least one of the meters must have a calibration date no more than three years old.

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