

## SUSPENSION STRAND

### TENSIONING

#### USE OF STRAND DYNAMOMETER

#### NOTES CONCERNING THIS ADDENDUM

This addendum provides instructions for tensioning CR steel strand and for measuring the tension with cable in place in accordance with the local standard of rating CR steel strand by its diameter rather than its strength.

The cross-reference "See Addendum" should be marked in G51.124.2 to indicate the following:

Paragraph 3.04 - Supplemented

Paragraph 4.03 - Replaced

Paragraph 5.02 - Replaced

#### 3. CALIBRATION CHARTS

3.04 As long as Section G51.125 is standard in this Area use only the upper table of the calibration chart. Where aluminum conductor cable is to be used obtain from other instructions the tension at which the strand should be placed for the existing temperature and span.

#### 4. TENSIONING STRAND - CR STEEL STRAND

4.03 CR steel strand shall be classified on the basis of diameter and not necessarily as might be marked on the reel. The following table lists the sizes of CR steel strand that are standard in this Area and their equivalent sizes of galvanized strand.

CR Steel Strand Diameter in Inches	Equivalent Size Galvanized Strand
5/16	6M
3/8	10M

When tensioning CR steel strand proceed as follows:

- (1) From other instructions determine the tension at which the strand should be placed for the existing temperature and span.
- (2) Multiply this desired stringing tension by the factor in (4).
- (3) Using the resulting value of tension obtain the dial indicator reading from the upper table of the calibration chart in the equivalent galvanized strand size column corresponding to the diameter of the CR steel strand being used.
- (4) Set the cam in the equivalent galvanized strand size notch as indicated.

CR Strand	Stringing Tension	Cam Notch
	Multiplying Factor	
5/16 inch	.9	6M
3/8 inch	1.0	10M

(Multiplying by .9 is the same as subtracting .1 of the desired stringing tension value.)

- (5) Adjust the strand tension until the proper dial reading is obtained.
- (6) Calibration charts for CR steel strand, if provided with the dynamometer, shall not be used in this Area.

## 5. MEASURING TENSION IN STRAND

5.02 Measure Tension in Existing CR Strand: If it is known that the strand is CR steel strand, proceed as follows:

- (1) Take 3 readings 1/4 inch apart using the proper cam notch as indicated in 4.03(4) above. Note the intermediate reading.
- (2) Find the dial indicator reading in the upper table of the calibration chart nearest the observed reading.
- (3) Opposite the reading just located, find the tension listed in the Tension column for the equivalent galvanized strand size corresponding to the diameter of the CR steel strand being measured. For 5/16 inch CR steel strand multiply this tension by 1.1 to secure the actual tension; for 3/8 inch CR strand use the listed tension.