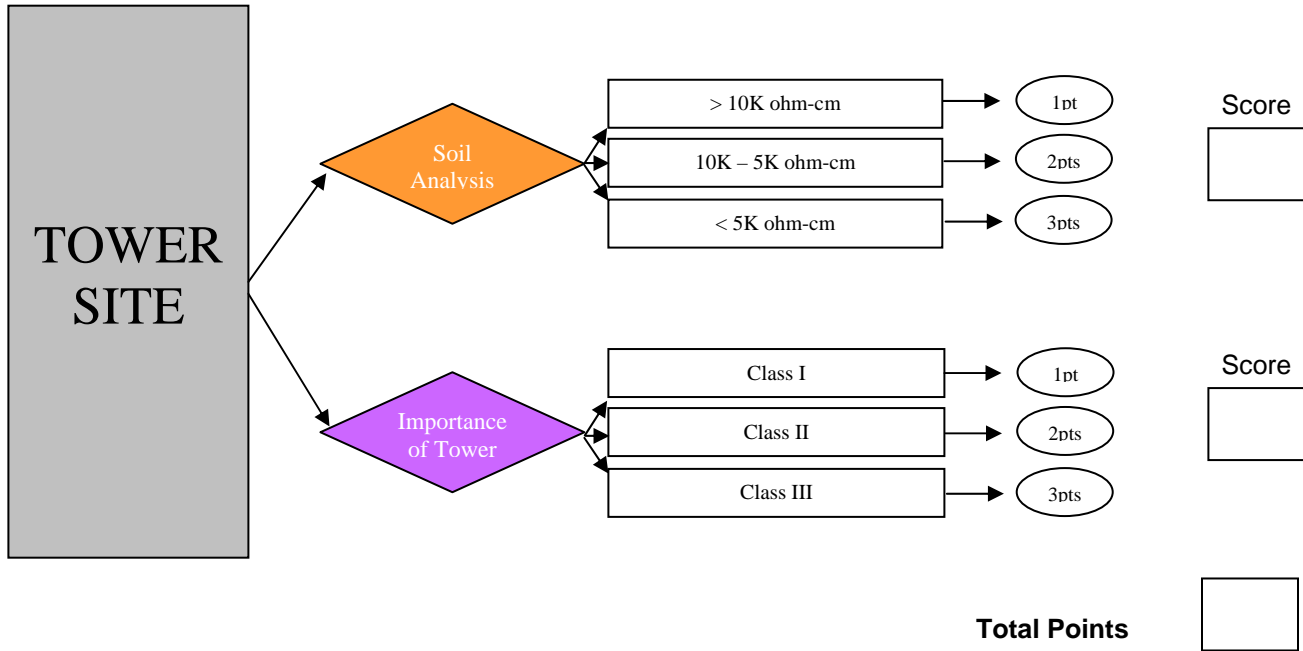


Guyed Tower Anchor Corrosion Control Flow Chart for NEW TOWERS



Add points from each category to determine range

OPTION 1

Points Range: ≤ 4

Action: Reanalyze
in 3 - 5 yrs.

OPTION 2

Points Range: 5 to 6

Action: Install
AnchorGuard
View ANSI/TIA222-G

See reverse side for additional information on this flow chart.

Reading the Flow Chart

This flow chart is designed to provide a simple and easy method to determine what course of action one must take to protect their towers. View ANSI/TIA 222-G for further information on approved methods of cathodic protection.

Note: For a complete method of procedure on assessing the condition of tower anchors and the various methods of corrosion protection, refer to the Anchor Inspection Standard Rev. A. It is advisable to install cathodic protection on all guyed towers, especially new structures.

New Towers

Corrosion is directly related to time or *age* of a structure. As time passes and a tower structure ages, the likelihood of corrosion deteriorating the guy anchor rises dramatically. Once the galvanizing is gone the steel is exposed, causing accelerated corrosion. The longer a guy anchor is exposed to corrosive soils, the greater the deterioration of the anchor.

Installing cathodic protection on new structures is always recommended in order to limit future maintenance and risk. A system such as AnchorGuard allows for annual measurements to be taken of the below ground conditions.

Soil Analysis

Collect a forty-eight ounce sample or six cups of soil from the bottom of the excavation and store in a water tight container. *Soil from one anchor is adequate to perform necessary tests.*

- 2.3.1 Laboratory test the sample in both as-found and saturated state to determine resistivity in ohm-centimeters.

| Table 4.1.1: Soil Resistivity Classification ^{A.W. Peabody} | |
|--|------------------------------|
| Resistivity in ohm/cm | Category |
| 0 – 5,000 | Very Corrosive |
| 5,000 – 10,000 | Moderately Corrosive |
| 10,000 – 25,000 | Progressively Less Corrosive |

Importance of Tower

(from ANSI/TIA-222-G Table 2-1)

| Description of the Structure | Class |
|---|-------|
| Structures that due to height, use or location represent a low hazard to human life and damage to property in the event of failure and/or used for services that are optional and/or where a delay in returning the services would be acceptable. | I |
| Structures that due to height, use or location represent a substantial hazard to human life and/or damage to property in the event of failure and/or used for services that may be provided by other means. | II |
| Structures that due to height, use or location represent a high hazard to human life and/or damage to property in the event of failure and/or used primarily for essential communications. | III |