

Lessons Learned from Guy Wire and Anchor Replacement at Sequoyah Nuclear Plant
Doyle Pittman (Tennessee Valley Authority)

TVA recently completed a project to replace the tower guy wires and two of the guy anchors for the Sequoyah 91-meter meteorological tower. This paper will share several lessons learned that may be useful to others dealing with tower maintenance issues for towers erected in the early 1970s. The first lesson is to obtain the necessary civil engineering expertise and tower design specifications in order to properly evaluate tower load and structural limitations. Often those involved with maintaining the monitoring equipment get saddled with tower maintenance even though the issues are quite different. The second lesson is to develop detailed work plans for the tower work. The work plan should include planning meetings, obtaining necessary site training for contractors, obtaining necessary site permits to perform the work, a detailed description of the work to be performed, and contingencies for unplanned problems. The third lesson is to have a thorough understanding of your monitoring requirements for such issues as calibration due dates, number of sensors required to be operating by technical specifications, and guy wire tension tolerances. Specific examples will be given of problems encountered and possible solutions.