



## **Release Notes for tnxTower Version 6.0**

August 31, 2011

This document describes Version 6.0 of tnxTower. It is an update of the most recent release of RISATower (5.4.2). Please install this update at your earliest convenience.

***Stand Alone Installation Instructions.pdf*** and ***Network Installation Instructions.pdf*** files are available from the [http://www.townrx.com/s\\_licensing.html](http://www.townrx.com/s_licensing.html) page.

### **New Features and Bug Fixes**

- Added Guy Tensioning table to the Analysis and Design Report.
- Changed default location of the database folder. It is now installed in the My Documents\tnxTower Files folder.
- Eliminated automatic update of existing database files after installation of a new release. This will eliminate the risk of overwriting database files that were customized by the user.
- Fixed Truss-leg database storage routine. Changes to section properties were not saving properly.
- Fixed candelabra data entry. Previously, in certain scenarios, values entered on the Candelabra page were not immediately reflected in the analysis results.
- Corrected the value of the Gh factor applied to upper structures under TIA/EIA-222-F. In previous v5.4 releases of the program separate values for upper structures were used (calculated as per TIA-222-G).
- Fixed incorrect directionality assumed for certain wind azimuths. Fixed summation of wind forces on feed lines for certain wind azimuths.
- Corrected Irregular Projected Area (IPA) calculation for monopoles. IPA was not properly accounted for if the bottom section of a pole had the Ra ratio lower than 0.2.



- Compression strength calculation for pipe and polygonal poles was corrected (TIA and CSA Standards). Previously the member global buckling strength was overestimated in some instances.
- $K_{zt}$  (topographic factor, TIA-222-G) consideration was added to load calculation based on User Forces, CaAc Shear Force. All other types of forces are not affected by the Topographic Category.
- Corrected calculation of  $kl/r(y)$  for K3 and K4 bracing schemes. Previously, when all hip bracing was present, the  $kl/r$  calculation assumed a wrong diagonal segment length.
- Corrected calculation of dish weight with ice in the Dish database input box. Previously the automatic extrapolation of weight with ice did not function correctly.
- Corrected calculation of bolt bearing capacity for leg sleeve connections.
- Updated block shear calculations for TIA-222-G to include provisions of Addendum No. 2. Corrected calculations for multiple bolt configurations.
- Changed some input limits to permit wider data ranges.