

- 1. Open the earlier project that we created called WalkthroughCSVImport
- 2. Select File>Save As and give the new project the name AerialStays
- 3. Once returned to the main form select the **Profiles** option from the top toolbar menu. A new window will open



- 4. Select Visuals>Point Nos.>Update View
- 5. Select the 4th Pole in the profile (Point No. 14). Make sure this pole is highlighted with a transparent grey background. Select the **Aerial Stays** Tab





- 6. In the bottom right-hand corner of the window under the stays tab is a plan view diagram and load case table. This displays the resultant load and direction on the pole. The red arrow shows the maximum resultant load direction
- 7. Select Add Stay on Resultant. A new row in the grid will appear with the calculated stay direction
- 8. Check that the **Direction** is **'147'**. The orientation of the Stay (indicated by the yellow line) can be seen visually along with the maximum load direction (indicated by the maroon dotted line) in the Plan View provided. By default, the previous aerial stay properties that were used will be added to the stay grid.
- 9. Next to the plan view of the pole is another diagram that shows the resultant maximum aerial stay load (calculated for every 1deg of wind) at its current orientation (indicated by a green or red polygon) that overlays the capacity of the aerial stay for each direction (indicated by the yellow polygon). If the top overlayed polygon sits inside the yellow polygon than the aerial stay capacity is greater than the resultant maximum stay load at that configuration and will be highlighted green. If the top polygon however extends outside the yellow polygon at any point, it indicates that the stay capacity at that direction is insufficient to support the resultant maximum stay load and will be highlighted red.



- 10. Enter in a Distance from Top of Pole of '0.2'
- 11. The **Height at Pole** will automatically be calculated after a **Distance from Top of Pole** has been entered. Check the value of **'10.3'** has been populated
- 12. Select the Conductor Group 'SCGZ'
- 13. Select the Conductor 'SC/GZ 7/4.00 SC/GZ 7/4.00'
- 14. Enter in a Distance to Stay Pole of '10'
- 15. Select the Stay Pole Group 'Wood'
- 16. Select the Stay Pole Length '9.5m'
- 17. Select the Stay Pole Strength '5 kN'
- 18. Select the Stay Pole Setting Depth of '1.40'
- 19. Select the Soil Type of 'Medium'
- 20. Enter Distance from Top of Stay Pole of '0.1'
- 21. The **Height at Stay Pole** will automatically be calculated after a **Distance from Top of Stay Pole** has been entered. Check the value of **'8.00'** has been populated
- 22. Check that the Exclude from Calculations checkbox is un-ticked

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- 23. Leave the Comments field empty
- 24. Select **Check Stays** to add the new stay configuration to the pole and update the calculations. The background colour of the row will turn white from yellow
- 25. The aerial stay will be added to the pole and displayed in both the elevation and plan view as shown below.



26. Ground stays can also be used in conjunction with aerial stays at the same pole location and can be added in the same method as a normal ground stay. Be default however, the aerial stay will be added to the ground stays table under the **Ground Stays** Tab to show that there is another form of stay on this pole. This row cannot be edited.





27. The aerial stay will act as its own tee-off profile that you can navigate to by selecting either the white box underneath the pole (shown below) or select **'Stay Profile1'** from **Profile** dropdown menu at the top of the design screen. From here you can add a ground stay to the aerial stay pole if required the same way you would add a ground stay to any other pole.



28. Select File>Save

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