



Bladed

Release notes for Bladed 4.3.0.39

21/08/2012

New features in 4.3 include:-

- Modifications to the dynamic stall model to account for dynamic behaviour of the pitching moment, drag coefficient and leading edge vortex detachment. See section 2.4 of the Theory manual for details.
- Main shaft bending degree of freedom. The low speed shaft can now include bending flexibility at a specified location along its length. See the transmission screen for the new data entry.
- Nacelle bedplate nodding degree of freedom. See the mounting screen for the new data entry.
- Shear stiffness can now be included in both the monopole tower and the multi-member support structure.
- Multi-blade coordinate transformation for linear models and Campbell diagram calculations. See section 3.6 of the Theory manual for details.
- "Parked" turbine option in Campbell diagram – allows you to look at the coupled system modes of the turbine at standstill.
- User defined shear profile for currents. See the currents tap for the new data entry.
- Calculation of modal mass and stiffness values when modal analysis is run. This is displayed alongside the frequency results.
- "Root mean square" output added to the Basic Stats post processing calculation.
- Option to evaluate sub groups before or after combining across blades for Ultimate loads with IEC-3 sub groups. See section 8.16 of the User manual for details.
- Option to "OK" or "ignore" repeated messages that appear during batch list operations.
- A tool to allow the generation of header files for multiple sets of ASCII files. Access from the "Tools" -> "Create header files" menu option.