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----- WT_Perf Input File -----
NREL 5.0 MW Baseline Wind Turbine for Use in Offshore Analysis.
Compatible with WT_Perf v3.0.
----- Input Configuration -----
False      Echo      - Echo input parameters to "echo.out"?
True       DimenInp   - Turbine parameters are dimensional?
True       Metric     - Turbine parameters are Metric (MKS vs FPS)?
----- Model Configuration -----
200        NumSect    - Number of circumferential sectors.
13         MaxIter    - Max number of iterations for induction factor.
35         NSplit:    - Max number of splits for binary search method
1.0E-6     ATol       - Error tolerance for induction iteration.
1.0E-6     SWTol      - Error tolerance for skewed-wake iteration.
----- Algorithm Configuration -----
True       TipLoss    - Use the Prandtl tip-loss model?
True       HubLoss    - Use the Prandtl hub-loss model?
True       Swirl      - Include Swirl effects?
True       SkewWake   - Apply skewed-wake correction?
True       IndType:   Use BEM induction algorithm?
False      AIDrag     - Use the drag term in the axial induction calculation.
False      TIDrag     - Use the drag term in the tangential induction calculation.
True       TISingularity: Use the singularity avoidance method in the
tangential-induction calculation?
false      DAWT:      Run Diffuser Augmented Water Turbine Analysis? [feature not
implimented yet]
False      Cavitation: Run cavitation check? if cavitation, output sevens,
check 12 oclock azimuth
----- Cavitation Model -----
101325     PressAtm:   Air Atmospheric Pressure, Pa units, absolute
2500       PressVapor: Vapor Pressure of Water, Pa units, absolute
1.0        CavSF:     Cavitation safety factor
33.0       WatDepth:  Depth from water free surface to mudline (tower base)
----- Turbine Data -----
3          NumBlade   - Number of blades.
63.0       RotorRad   - Rotor radius [length].
1.5        HubRad     - Hub radius [length or div by radius].
-2.5       PreCone    - Precone angle, positive downwind [deg].
-5.0       Tilt       - Shaft tilt [deg].
0.0        Yaw        - Yaw error [deg].
90.0       HubHt      - Hub height [length or div by radius].
17         NumSeg     - Number of blade segments (entire rotor radius).
RElm       Twist     Chord  AFile  PrntElem
2.8667    13.308     3.542  1     False
5.6000    13.308     3.854  1     False
8.3333    13.308     4.167  2     False
11.7500   13.308     4.557  3     False
15.8500   11.480     4.652  4     False
19.9500   10.162     4.458  4     False
24.0500   9.011      4.249  5     False
28.1500   7.795     4.007  6     False
32.2500   6.544     3.748  6     False
36.3500   5.361     3.502  7     False
40.4500   4.188     3.256  7     False
44.5500   3.125     3.010  8     False
48.6500   2.319     2.764  8     False
52.7500   1.526     2.518  8     False
56.1667   0.863     2.313  8     False
58.9000   0.370     2.086  8     False
61.6333   0.106     1.419  8     False
----- Aerodynamic Data -----
1.225     Rho        - Air density [mass/volume].

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