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NREL 5.0 MW offshore baseline aerodynamic input properties; Compatible with AeroDyn
v12.58.
SI           SysUnits      - System of units for used for input and output [must be SI
for FAST] (unquoted string)
BEDDOES      StallMod      - Dynamic stall included [BEDDOES or STEADY] (unquoted string)
USE_CM        UseCm         - Use aerodynamic pitching moment model? [USE_CM or NO_CM]
(unquoted string)
EQUIL         InfModel      - Inflow model [DYNIN or EQUIL] (unquoted string)
SWIRL         IndModel      - Induction-factor model [NONE or WAKE or SWIRL] (unquoted string)
0.005         AToler        - Induction-factor tolerance (convergence criteria) (-)
PRANDtl       TLModel       - Tip-loss model (EQUIL only) [PRANDtl, GTECH, or NONE]
(unquoted string)
PRANDtl       HLModel       - Hub-loss model (EQUIL only) [PRANDtl or NONE] (unquoted string)
"16ms_wGust.hh" "TurbSim.bts" WindFile - Name of file containing wind data
(quoted string)
90.0          HH           - Wind reference (hub) height
[TowerHt+Twr2Shft+OverHang*SIN(ShftTilt)] (m)
0.0           TwrShad       - Tower-shadow velocity deficit (-)
9999.9        ShadHWid      - Tower-shadow half width (m)
9999.9        T_Shad_Refpt  - Tower-shadow reference point (m)
1.225         AirDens       - Air density (kg/m^3)
1.464E-5      KinVisc       - Kinematic air viscosity [CURRENTLY IGNORED] (m^2/sec)
0.02479       DTAero        - Time interval for aerodynamic calculations (sec)
8             NumFoil       - Number of airfoil files (-)
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\Cylinder1.dat" FoilNm
- Names of the airfoil files [NumFoil lines] (quoted strings)
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\Cylinder2.dat"
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\DU40_A17.dat"
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\DU35_A17.dat"
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\DU30_A17.dat"
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\DU25_A17.dat"
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\DU21_A17.dat"
"..\\..\\..\\..\\NREL5MW_Properties\\AeroData\\NACA64_A17.dat"
17           BldNodes      - Number of blade nodes used for analysis (-)
RNodes      AeroTwst  DRNodes  Chord  NFoil  PrnElm
2.8667      13.308    2.7333   3.542   1      NOPRINT
5.6000      13.308    2.7333   3.854   1      NOPRINT
8.3333      13.308    2.7333   4.167   2      NOPRINT
11.7500     13.308    4.1000   4.557   3      NOPRINT
15.8500     11.480    4.1000   4.652   4      NOPRINT
19.9500     10.162    4.1000   4.458   4      NOPRINT
24.0500      9.011    4.1000   4.249   5      NOPRINT
28.1500      7.795    4.1000   4.007   6      NOPRINT
32.2500      6.544    4.1000   3.748   6      NOPRINT
36.3500      5.361    4.1000   3.502   7      NOPRINT
40.4500      4.188    4.1000   3.256   7      NOPRINT
44.5500      3.125    4.1000   3.010   8      NOPRINT
48.6500      2.319    4.1000   2.764   8      NOPRINT
52.7500      1.526    4.1000   2.518   8      NOPRINT
56.1667      0.863    2.7333   2.313   8      NOPRINT
58.9000      0.370    2.7333   2.086   8      NOPRINT
61.6333      0.106    2.7333   1.419   8      NOPRINT

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