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------- FAST INPUT FILE -----------------------------------------------------
NREL 5.0 MW Baseline Wind Turbine for Use in Offshore Analysis.
Properties from Dutch Offshore Wind Energy Converter (DOWEC) 6MW Pre-Design
(10046_009.pdf) and REpower 5M 5MW (5m_uk.pdf); Compatible with FAST v6.0.
---------------------- SIMULATION CONTROL --------------------------------
False       Echo        - Echo input data to "echo.out" (flag)
   1        ADAMSPrep   - ADAMS preprocessor mode {1: Run FAST, 2: use FAST as a
preprocessor to create an ADAMS model, 3: do both} (switch)
   1        AnalMode    - Analysis mode {1: Run a time-marching simulation, 2: create
a periodic linearized model} (switch)
   3        NumBl       - Number of blades (-)
 600.0      TMax        - Total run time (s)
 0.0125     DT          - Integration time step (s)
 ---------------------- TURBINE CONTROL -----------------------------------
   0        YCMode      - Yaw control mode {0: none, 1: user-defined from routine
UserYawCont, 2: user-defined from Simulink} (switch)
9999.9      TYCOn       - Time to enable active yaw control (s) [unused when YCMode=0]
   2        PCMode      - Pitch control mode {0: none, 1: user-defined from routine
PitchCntrl, 2: user-defined from Simulink} (switch)
   0.0      TPCOn     - Time to enable active pitch control (s) [unused when PCMode=0]
   3        VSContrl    - Variable-speed control mode {0: none, 1: simple VS, 2:
user-defined from routine UserVSCont, 3: user-defined from Simulink} (switch)
9999.9      VS_RtGnSp   - Rated generator speed for simple variable-speed generator
control (HSS side) (rpm) [used only when VSContrl=1]
9999.9      VS_RtTq     - Rated generator torque/constant generator torque in Region 3
for simple variable-speed generator control (HSS side) (N-m) [used only when
VSContrl=1]
9999.9      VS_Rgn2K    - Generator torque constant in Region 2 for simple
variable-speed generator control (HSS side) (N-m/rpm^2) [used only when VSContrl=1]
9999.9      VS_SlPc     - Rated generator slip percentage in Region 2 1/2 for simple
variable-speed generator control (%) [used only when VSContrl=1]
   2        GenModel    - Generator model {1: simple, 2: Thevenin, 3: user-defined
from routine UserGen} (switch) [used only when VSContrl=0]
True        GenTiStr    - Method to start the generator {T: timed using TimGenOn, F:
generator speed using SpdGenOn} (flag)
True        GenTiStp    - Method to stop the generator {T: timed using TimGenOf, F:
when generator power = 0} (flag)
9999.9      SpdGenOn    - Generator speed to turn on the generator for a startup (HSS
speed) (rpm) [used only when GenTiStr=False]
   0.0      TimGenOn    - Time to turn on the generator for a startup (s) [used only
when GenTiStr=True]
9999.9      TimGenOf    - Time to turn off the generator (s) [used only when
GenTiStp=True]
   1        HSSBrMode   - HSS brake model {1: simple, 2: user-defined from routine
UserHSSBr} (switch)
9999.9      THSSBrDp    - Time to initiate deployment of the HSS brake (s)
9999.9      TiDynBrk    - Time to initiate deployment of the dynamic generator brake
[CURRENTLY IGNORED] (s)
9999.9      TTpBrDp(1)  - Time to initiate deployment of tip brake 1 (s)
9999.9      TTpBrDp(2)  - Time to initiate deployment of tip brake 2 (s)
9999.9      TTpBrDp(3)  - Time to initiate deployment of tip brake 3 (s) [unused for 2
blades]
9999.9      TBDepISp(1) - Deployment-initiation speed for the tip brake on blade 1
(rpm)
9999.9      TBDepISp(2) - Deployment-initiation speed for the tip brake on blade 2
(rpm)
9999.9      TBDepISp(3) - Deployment-initiation speed for the tip brake on blade 3
(rpm) [unused for 2 blades]
9999.9      TYawManS    - Time to start override yaw maneuver and end standard yaw
control (s)
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