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----- BEAMDYN V1.01.* INPUT FILE -----
NREL 5MW blade primary input file
----- SIMULATION CONTROL -----
TRUE      Echo
2          analysis_type - Echo input data to "<RootName>.ech" (flag)
0.0        rhoINF        - 1: Static analysis; 2: Dynamic analysis (switch)
2          quadrature    - Numerical Damping Parameter for Generalized-alpha integrator
                - 1: Gauss; 2: Trapezoidal (switch)
DEFAULT    refine        - Refinement factor for quadrature 2 (-). DEFAULT = 1
DEFAULT    n_fact        - Factorization frequency (-). DEFAULT = 5
DEFAULT    DTBeam        - Time step size (s).
DEFAULT    NRMMax        - Max number of iterations in Newton-Ralphson algorithm (-). DEFAULT = 10
DEFAULT    stop_tol      - Tolerance for stopping criterion (-)
----- GEOMETRY PARAMETER -----
1          member_total  - Total number of members (-)
49         kp_total      - Total number of key points (-)
1          49           - Member number; Number of key points in this member
kp_xb      kp_yb        kp_zb      initial_twist
(m)         (m)         (m)         (deg)
0.000000   0.000000   0.000000   0.000000   13.308000
0.000000   0.000000   0.000000   0.199875   13.308000
0.000000   0.000000   0.000000   1.199865   13.308000
0.000000   0.000000   0.000000   2.199855   13.308000
0.000000   0.000000   0.000000   3.199845   13.308000
0.000000   0.000000   0.000000   4.199835   13.308000
0.000000   0.000000   0.000000   5.199825   13.308000
0.000000   0.000000   0.000000   6.199815   13.308000
0.000000   0.000000   0.000000   7.199805   13.308000
0.000000   0.000000   0.000000   8.201025   13.308000
0.000000   0.000000   0.000000   9.199785   13.308000
0.000000   0.000000   0.000000   10.199775  13.308000
0.000000   0.000000   0.000000   11.199765  13.181000
0.000000   0.000000   0.000000   12.199755  12.848000
0.000000   0.000000   0.000000   13.200975  12.192000
0.000000   0.000000   0.000000   14.199735  11.561000
0.000000   0.000000   0.000000   15.199725  11.072000
0.000000   0.000000   0.000000   16.199715  10.792000
0.000000   0.000000   0.000000   18.200925  10.232000
0.000000   0.000000   0.000000   20.200290   9.672000

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0.000000 0.000000 22.200270 9.110000
0.000000 0.000000 24.200250 8.534000
0.000000 0.000000 26.200230 7.932000
0.000000 0.000000 28.200825 7.321000
0.000000 0.000000 30.200190 6.711000
0.000000 0.000000 32.200170 6.122000
0.000000 0.000000 34.200150 5.546000
0.000000 0.000000 36.200130 4.971000
0.000000 0.000000 38.200725 4.401000
0.000000 0.000000 40.200090 3.834000
0.000000 0.000000 42.200070 3.332000
0.000000 0.000000 44.200050 2.890000
0.000000 0.000000 46.200030 2.503000
0.000000 0.000000 48.201240 2.116000
0.000000 0.000000 50.199990 1.730000
0.000000 0.000000 52.199970 1.342000
0.000000 0.000000 54.199950 0.954000
0.000000 0.000000 55.199940 0.760000
0.000000 0.000000 56.199930 0.574000
0.000000 0.000000 57.199920 0.404000
0.000000 0.000000 57.699915 0.319000
0.000000 0.000000 58.201140 0.253000
0.000000 0.000000 58.699905 0.216000
0.000000 0.000000 59.199900 0.178000
0.000000 0.000000 59.699895 0.140000
0.000000 0.000000 60.199890 0.101000
0.000000 0.000000 60.699885 0.062000
0.000000 0.000000 61.199880 0.023000
0.000000 0.000000 61.500000 0.000000

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5      order_elem      - MESH PARAMETER -----
      - Order of interpolation (basis) function (-)
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"5MW_Blade_IEC.inp"  BlFile - Name of file containing properties for blade (quoted string)
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False      UsePitchAct - PITCH ACTUATOR PARAMETERS -----
200        PitchJ      - Whether a pitch actuator should be used (flag)
2.0E+7      PitchK      - Pitch actuator inertia (kg-m^2) [used only when UsePitchAct is true]
5.0E+5      PitchC      - Pitch actuator stiffness (kg-m^2/s^2) [used only when UsePitchAct is true]
                    - Pitch actuator damping (kg-m^2/s) [used only when UsePitchAct is true]

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----- OUTPUTS -----
True      SumPrint      - Print summary data to "<RootName>.sum" (flag)
"ES10.3E2" OutFmt      - Format used for text tabular output, excluding the time channel.
      2      NNodeOuts      - Number of nodes to output to file [0 - 9] (-)
      1, 3      OutNd      - Nodes whose values will be output (-)
      OutList      - The next line(s) contains a list of output parameters. See
OutListParameters.xlsx.
"RootFxr, RootFyr, RootFzr"
"RootMxr, RootMyr, RootMzr"
"NlFxl, NlFyl, NlFzl"
"NlMxl, NlMyl, NlMzl"
"TipTDxr, TipTDyr, TipTDzr"
"TipRDxr, TipRDyr, TipRDzr"
END of input file (the word "END" must appear in the first 3 columns of this last OutList line)
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