```
--------- BEAMDYN V1.01.* INPUT FILE -------------------------------------------
NREL 5MW blade primary input file
---------------------- SIMULATION CONTROL --------------------------------------
TRUE     Echo            - Echo input data to "<RootName>.ech" (flag)
2         analysis_type  - 1: Static analysis; 2: Dynamic analysis (switch)
0.0       rhoinf         - Numerical Damping Parameter for Generalized-alpha integrator (-)
2         quadrature     - 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 = glue/driver code time step
DEFAULT   NRMax          - Max number of iterations in Newton-Ralphson algorithm (-). DEFAULT = 10
DEFAULT   stop_tol       - Tolerance for stopping criterion (-)DEFAULT = 1.0E-5
---------------------- 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_xr kp_yr   kp_zr    initial_twist
(m)    (m)    (m)     (deg)
  0.000000   0.000000   0.000000  13.308000
  0.000000   0.000000   0.199875  13.308000
  0.000000   0.000000   1.199865  13.308000
  0.000000   0.000000   2.199855  13.308000
  0.000000   0.000000   3.199845  13.308000
  0.000000   0.000000   4.199835  13.308000
  0.000000   0.000000   5.199825  13.308000
  0.000000   0.000000   6.199815  13.308000
  0.000000   0.000000   7.199805  13.308000
  0.000000   0.000000   8.201025  13.308000
  0.000000   0.000000   9.199785  13.308000
  0.000000   0.000000  10.199775  13.308000
  0.000000   0.000000  11.199765  13.181000
  0.000000   0.000000  12.199755  12.848000
  0.000000   0.000000  13.200975  12.192000
  0.000000   0.000000  14.199735  11.561000
  0.000000   0.000000  15.199725  11.072000
  0.000000   0.000000  16.199715  10.792000
  0.000000   0.000000  18.200925  10.232000
  0.000000   0.000000  20.200290   9.672000
```

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

```
---------------------- 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"
"N1Fxl,N1Fyl,N1Fzl"
"N1Mxl,N1Myl,N1Mzl"
"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)
---------------------------------------------------------------------------------
```