====================== BModes v3.00 Main Input File ==================

IEA-15-240-RWT Offshore Tower (from tip to TP 15 m above MSL). Substructure is computed from Subdyn Summary files.

--------- General parameters ---------------------------------------------------------------------

True Echo Echo input file contents to \*.echo file if true.

1 beam\_type 1: blade, 2: tower (-)

10.59 romg: rotor speed (rpm), automatically set to zero for tower modal analysis

1.0 romg\_mult: rotor speed muliplicative factor (-)

117. radius: rotor tip radius measured along coned blade axis OR tower height (m)

3.0 hub\_rad: hub radius measured along coned blade axis OR tower rigid-base height (m)

-4.0 precone: built-in precone angle (deg), automatically set to zero for a tower

0. bl\_thp: blade pitch setting (deg), automatically set to zero for a tower

1 hub\_conn: hub-to-blade connection [1: cantilevered; other options not yet available]

50 modepr: number of modes to be printed (-)

f TabDelim (true: tab-delimited output tables; false: space-delimited tables)

t mid\_node\_tw (true: output twist at mid-node of elements; false: no mid-node outputs)

--------- Blade-tip or tower-top mass properties --------------------------------------------

0.0 tip\_mass blade-tip or tower-top mass (see users' manual) (kg)

0.0 cm\_loc tip-mass c.m. offset from the tower axis measured along the tower-tip x reference axis (m)

0.0 cm\_axial tip-mass c.m. offset tower tip measures axially along the z axis (m)

0.0 ixx\_tip blade lag or tower s-s mass moment of inertia about the tip-section x reference axis (kg-m^2)

0.0 iyy\_tip blade flap or tower f-a mass moment of inertia about the tip-section y reference axis (kg-m^2)

0.0 izz\_tip torsion mass moment of inertia about the tip-section z reference axis (kg-m^2)

0.0 ixy\_tip cross product of inertia about x and y reference axes(kg-m^2)

0.0 izx\_tip cross product of inertia about z and x reference axes(kg-m^2)

0.0 iyz\_tip cross product of inertia about y and z reference axes(kg-m^2)

--------- Distributed-property identifiers --------------------------------------------------------

1 id\_mat: material\_type [1: isotropic; non-isotropic composites option not yet available]

'IEA-15-240-RWT\_BModes\_blade\_sec\_prop.dat' sec\_props\_file name of beam section properties file (-)

Property scaling factors..............................

1.0 sec\_mass\_mult: mass density multiplier (-)

1.0 flp\_iner\_mult: blade flap or tower f-a inertia multiplier (-)

1.0 lag\_iner\_mult: blade lag or tower s-s inertia multiplier (-)

1.0 flp\_stff\_mult: blade flap or tower f-a bending stiffness multiplier (-)

1.0 edge\_stff\_mult: blade lag or tower s-s bending stiffness multiplier (-)

1.0 tor\_stff\_mult: torsion stiffness multiplier (-)

1.0 axial\_stff\_mult: axial stiffness multiplier (-)

1.0 cg\_offst\_mult: cg offset multiplier (-)

1.0 sc\_offst\_mult: shear center multiplier (-)

1.0 tc\_offst\_mult: tension center multiplier (-)

--------- Finite element discretization --------------------------------------------------

61 nselt: no of blade or tower elements (-)

Distance of element boundary nodes from blade or flexible-tower root (normalized wrt blade or tower length), el\_loc()

0 0.003481894 0.010445682 0.017409471 0.024373259 0.031337047 0.038300836 0.045264624 0.052228412 0.059192201 0.066155989 0.073119777 0.080083565 0.087047354 0.094011142 0.10097493 0.107938719 0.114902507 0.121866295 0.128830084 0.135793872 0.13990 0.149721448 0.156685237 0.163649025 0.170612813 0.177576602 0.18454039 0.191504178 0.198467967 0.205431755 0.212395543 0.219359331 0.22632312 0.233286908 0.240250696 0.247214485 0.250696379 0.320334262 0.37971 0.424791072 0.45961 0.486635 0.51366 0.54068 0.5677 0.594715 0.62173 0.64875 0.67577 0.70279 0.72981 0.75683 0.78385 0.81087 0.83789 0.864905 0.89192 0.91894 0.94596 0.97298 1.0

END of Main Input File Data \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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