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Generate
Turbulence
Samples

Define Blade
Loads
Surrogates

Calculate
Steady-State
Turbine Inflow
Wind Speed

Calculate
Turbulence
Intensities
Across the
Blade

Calculate Blade
Wind Speeds

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Turbulence and
Azimuth Loop

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2.8

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Calculate
Turbulent
Turbine Inflow
Wind Speed

Calculate
Rotational
Speed and Pitch
Angle

Calculate
Turbulent
Bending
Moments

Radial Damage
Location Loop 2.10

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2.13

Convert
Bending
Moments to
Stresses

Calculate
Damage

Return
Maximum
Damage