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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PROJECT INFORMATION | | | | | | | | | | | | | | | | | | | | |
| **Project ID:** |  | | | | | | | | | | | | | | | | | | | |
| **County:** |  | | | | **RPG1:** | |  | | | | **Route:** | |  | | | | | | | |
| **Description:** | |  | | | | | | | | | | | | | | | | | | |
| **Latitude (4 decimals):** | | | | **.** | | | | | | | | **Longitude (4 decimals):** | | | | | **.** | | | |
| 3-Point ADRS Curve | | | | | | | | | | | | | | | | | | | | |
| GDF 002 Completed and Submitted | | | | | |  | | | 3-Point ADRS Curve Provided | | | | | | | **Yes** | |  | No |  |
| Select Design Earthquake | | | | | | | | | | | | | | | | | | | | |
| SEE – 3% Probability of Exceedance in 75 years | | | | | | | | | | |  | | | | | | | | | |
| FEE – 15% Probability of Exceedance in 75 years | | | | | | | | | | |  | | | | | | | | | |
| Geologic site condition | | | | | | | | | | | | | | | | | | | | |
| **Geologically Realistic** | | | | | | | | **Hard Rock Basement Outcrop** | | | | | | | | | | | | |
| Sediment Thickness  The sediment thickness is used by *scenario\_pc*, to generate the time series simulation. The time series can be generated with the default sediment thickness as indicated in *2.2.2.1 Site Response Modeling* of theProbabilistic Seismic Hazard Mapping for South Carolina (http://www.scdot.org/doing/structural\_Seismic.aspx) or can adjusted specifically for the geology and analysis requirements at the specific project location. This option only applies to those site were the Geologically Realistic Model is used. | | | | | | | | | | | | | | | | | | | | |
| **Change Sediment Thickness:** | | | | | | | | **Yes**       meters | | | | | | **No** | | | | | | |
| Match Entire Uniform SpectrumIn cases where the uniform hazard spectrum is dominated by a single scenario (a well defined modal event in the Deaggregation plots), the spectrum of the modal event may closely match that of the uniform hazard spectrum, even without much scaling. This will be the case for sites in the Coastal Plain near Charleston, for the 3% in 75 year hazard level. However, at sites where there are 2 or maybe 3 modes in the deaggregation, matching the entire spectrum with a single modal event will require much scaling. This scaling can be done automatically over the entire spectrum. Matching the entire spectrum involves a phase-invariant spectral scaling of the scenario time series. It is often preferable to use 2 or more modal events, each matching a specific frequency of the uniform hazard spectrum. This results in a simple constant (frequency independent) scaling of the scenario time series. If the consultant selects to not match the entire spectrum, the spectrum may be scaled using either an oscillator frequency/PSA or a PGA that will be matched when simulating the ground motion. | | | | | | | | | | | | | | | | | | | | |
| **Match Entire Spectrum:** | | | | | | | | | | **Yes** | | | | | **No** | | | | | |
| Requestor Information | | | | | | | | | | | | | | | | | | | | |
| **Requestor Name:** | | |  | | | | | | | | | | | | | | | | | |
| Company Name: | | |  | | | | | | | | | | | | | | | | | |
| **Phone Number:** | | | (     )      - | | | | | | | | | | | | | | | | | |
| **Email Address** | | |  | | | | | | | | | | | | | | | | | |
| **Request Date:** | | |  | | | | | | | | | | | | | | | | | |

**1RPG – Regional Production Group**

**Lowcountry** – Beaufort, Berkeley, Charleston, Colleton, Dorchester, Hampton, Jasper

**Pee Dee** – Chesterfield, Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Kershaw, Lee, Marion, Marlboro,

Sumter, Williamsburg

**Midlands** – Aiken, Allendale, Bamberg, Barnwell, Calhoun, Chester, Fairfield, Lancaster, Lexington, Newberry,

Orangeburg, Richland, Union, York

**Upstate** – Abbeville, Anderson, Cherokee, Edgefield, Greenville, Greenwood, Laurens, McCormick, Oconee, Pickens,

Saluda, Spartanburg

**Pre-Construction Support** – PCS

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| --- | --- | --- | --- | --- | --- | --- | --- |
| PROJECT INFORMATION | | | | | | | |
| **Project ID:** |  | | | | | | |
| **Design Earthquake** | | **SEE** |  | | | | |
| **Seismic Event Number** | **Mw** | **R (km)** | **Seed Number2** | **If Not matching Entire Spectrum, Select PSA or PGA Scaling** | | | |
| **PSA Scaling** | | | **PGA Scaling** |
| **Oscillator Frequency (Hz)** | **PSA (g)** | | **PGA (g)** |
| 1 |  |  |  |  |  | |  |
| 2 |  |  |  |  |  | |  |
| 3 |  |  |  |  |  | |  |
| 4 |  |  |  |  |  | |  |
| 5 |  |  |  |  |  | |  |
| 6 |  |  |  |  |  | |  |
| 7 |  |  |  |  |  | |  |
| **Design Earthquake** | | **FEE** |  | | | | |
| **Seismic Event Number** | **Mw** | **R (km)** | **Seed Number2** | **If Not matching Entire Spectrum, Select PSA or PGA Scaling** | | | |
| **PSA Scaling** | | | **PGA Scaling** |
| **Oscillator Frequency (Hz)** | | **PSA (g)** | **PGA (g)** |
| 1 |  |  |  |  | |  |  |
| 2 |  |  |  |  | |  |  |
| 3 |  |  |  |  | |  |  |
| 4 |  |  |  |  | |  |  |
| 5 |  |  |  |  | |  |  |
| 6 |  |  |  |  | |  |  |
| 7 |  |  |  |  | |  |  |

2Seed Number is an integer between 1 and 1000