

2021 Geotechnical/Seismicity Deliverable Rubric

This rubric serves as a guide to help your team submit a high quality deliverable. Scoring will be based on the following criteria for each part of the deliverable. For more information, please refer to the general official rules and the deliverable description document. This rubric shall serve **only** as a guide, and has no power to supersede or override the aforementioned documents. Any deliverable submitted that has more than 12 pages (including title page) will not be scored.

Formatting reminders: 11 pt, single-spaced, US Letter, Times New Roman font with 1 in. margins, 12 page limit.

Category/Part	An excellent document...	A poor document	Points
<p><i>Title Page:</i> Name of school, computer-generated image related to the deliverable, names of all team members and the designated team captain(s).</p>	Contains all required items, neatly arranged on the title page.	Is missing one or more items.	Req'd
<p><i>Part 1:</i> Memo of Regional and Local Site Conditions.</p>	Describes local faults, interface zones, and regional geology, demonstrating knowledge based on outside research; accurately interprets the provided boring log and describes important layers; within the word count limit.	Demonstrates limited understanding of the site and the unique challenges it poses; inaccurately interprets the boring log; exceeds word count limit.	15
<p><i>Part 2:</i> Subsurface Challenges and Determination of Site Class per ASCE 7-16.</p>	Accurately describes the subsurface conditions (if any) indicating liquefaction; proposes three ground improvement techniques; states a reasonable minimum depth for pile foundations with appropriate rationale; identifies the site class before and after ground improvement with appropriate justification.	Has poor or inaccurate descriptions; missing one or more of the required items.	15

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<p>Part 3: Prepare a Design Response Spectrum per Chapter 11 of ASCE 7-16.</p>	<p>States the correct risk category; neatly presents the design response spectrum plot and a table of used parameters; correctly identifies the Sa range; accurately lists all hazards and analyses based on the Seismic Design Category.</p>	<p>Has poor or inaccurate description; missing one or more of the required items.</p>	<p>15</p>
<p>Part 4: Interpret the Seismic Hazard Deaggregation.</p>	<p>Neatly presents the required plots and tables; targets the proposed questions correctly and with reasoning.</p>	<p>Missing one or more of the required items.</p>	<p>15</p>
<p>Part 5: Select and Scale Time Histories for Future Analyses.</p>	<p>Neatly presents the required plots and tables; targets the proposed questions correctly and with reasoning.</p>	<p>Missing one or more of the required items.</p>	<p>15</p>
<p>Writing, Organization and Presentation: Grammar, spelling, clarity, punctuation, sentence structure, word choice, neatness, aesthetics.</p>	<p>Is essentially free of grammar and spelling errors; each sentence is structured effectively; has a good range and accuracy of vocabulary; logically organized; formatted professionally.</p>	<p>Has many grammatical and spelling mistakes; contains poor sentence structure; extremely limited vocabulary; poorly organized; is not formatted appropriately.</p>	<p>25</p>
<p>Work Cited or Reference Page: Does not count for the page limit</p>	<p>Is consistent in format and all references or citations are correctly cited</p>	<p>Is inconsistent in format or not included in the document</p>	<p>Req'd</p>