2022 Design Proposal Requirements and Rubric

All teams are required to submit a design proposal. This design proposal is used to determine which teams are invited to compete in the Seismic Design Competition. **Remember, the SLC retains the ability to restrict the number of invited teams due to time limitations and space availability at the conference venue. Therefore, please pay particular attention to your proposal.**

This document describes items that must be included in the design proposal and provides guidelines for teams to submit a high-quality proposal. Scoring of the proposals will be based on the requirements and rubric provided in this document. This document does not override the Official Rules; it is meant to supplement the official rules by providing formatting and content requirements of the design proposal.

1. Formatting Requirements

- The proposal shall not exceed 3 pages, including the title page. Any proposal exceeding the page limit will not be scored.
- The proposal must be 11pt, single-spaced, US Letter (8.5 in x 11 in), Times New Roman font with 1 inch margins.
- Any deviation from the formatting requirements will result in substantial deductions from the proposal score at the discretion of the SDC chairs.

2. Plagiarism Requirements

• Plagiarism is strictly prohibited and may result in disqualification or non-invitation to compete. Any citation style is accepted, as long as it is consistent. Works Cited or References pages are required but <u>do not</u> count toward the page limit. See Section 10 of the Official Rules for more information.

3. Page Content Requirements

- Page 1: Title Page
 - Name of the school, overall computer-generated image of the exposed structural system (an optional computer-generated image of the final architectural state may also be included), names of all team members and the designated team captain. (Note: the designated team captain will be the only point of contact between the team and the SDC Chairs from the start of the design to the completion of the competition).
- Pages 2 3: Proposal Content
 - Proposals will be judged on the following:
 - A summary of the site conditions and seismic activity expected for the downtown area of Salt Lake City (e.g., soil types, historic earthquakes, major faults, magnitude and shaking expected for future earthquakes, etc). This summary should address how these items impact the foundation and seismic design considerations.
 - The seismic Site Class (i.e. A, B, C, D, E, or F) corresponding to the location of your structure must be determined and included as part of the proposal in accordance with Table 20.3-1 of ASCE 7-05, ASCE 7-10, or ASCE 7-16. Additionally, you should address whether liquefaction or lateral spreading are possible at your site. Please use the geotechnical information provided on the competition website to answer these questions.
 - Description of the structural system and elaboration on the plans for predicting the structural behavior (computer modeling, small-scale testing, etc.)
 - Explanation of how the client's architectural requirements (as detailed in Section 1.2 of the Official Rules) will be met and any other economic or environmental considerations. The predicted weight of the balsa wood model should be provided as an economic consideration.

2022 Design Proposal Requirements and Rubric

- Professionalism demonstrated through concise and clear writing with a good command of grammar and spelling.
- Proposed damping devices may be included in the proposal but are not necessary. Final approval of the damping devices must be made through the Damping Device Approval Process (Section 4.2 of the Official Rules).
- Diagrams and photos are recommended but must fit within the page limit.
- For additional information, please see the rubric at the end of this document.
- Page(s) 4(+): Works Cited
 - Teams must cite the references that they use in creating their proposal.
 - No additional content for the proposal may be included on the Works Cited page(s).

4. Submission Requirements

A PDF of the document must be emailed to the SDC Chairs at the following email address by the date listed on the competition website. The SDC Chairs will confirm the submission within 48 hours of receiving it. If the team does not hear back from the SDC Chairs, please reach out to confirm the submission was received.

sdc@eeri.org

Teams are not bound to the designs submitted in the design proposal process. Design proposals are not evaluated for rule violations. Selected designs are still subject to penalization or disqualification. Teams are responsible for ensuring that their buildings follow the competition rules. For any clarification, refer to the clarifications section on the competition website, or the team captain can submit a clarification request (See Section 8 of the Official Rules).

5. Rubric

This rubric is intended to serve as a guide to describe how teams can perform better in each category of the design proposal.

Category/Description	An excellent proposal	A poor proposal	Points
Title Page:	contains all required items, neatly	is missing one or more items	
Name of school, overall	arranged on the title page		
computer-generated image of the			Rea'd
exposed structural system,			ncy u
names of all team members and			
the designated team captain			
Project Description:	has a completely developed	has simplistic or unfocused	
Description and overview of	project overview and clearly	ideas; is unclear on the purpose	5
project and objectives	addresses the project objectives;	of the project; goes into	5
	succinctly highlights major points	excessive detail on some points	
Geotechnical/Site Description:	describes expected soil	demonstrates limited	
Soil condition and expected	conditions, including types,	understanding of the site and	
seismicity at the proposed site	expected strength, and potential	the unique challenges it poses;	
location	challenges; describes the	has limited, inaccurate or	
	expected seismic activity (major	overly broad descriptions of	15
	faults, historic earthquakes,	the site conditions and seismic	
	magnitude and shaking of future	history; link between the	
	events); addresses how these	conditions and the design is not	
	items impact foundation and	discussed or is unclear; seismic	

2022 Design Proposal Requirements and Rubric

	seismic design considerations;	Site Class is incorrect or not	
	provides correct seismic Site	included; does not mention	
	Class; discusses liquefaction and	liquefaction or lateral	
	lateral spreading	spreading	
Architectural Description:	explains inspiration; details	lacks inspiration; does not have	
Inspirations, innovative and	innovative and environmentally	or explain innovative features;	
environmentally friendly	friendly or socially friendly	does not fit into the urban	
features, renderings, etc.	features; demonstrates effective	fabric or context; contains	15
	integration into the urban fabric	excessive or unrelated	
	and city culture; pictures or	illustrations; contains filler / is	
	diagrams are meaningful	off-topic	
Structural Description:	accurately identifies and explains	has poor or inaccurate	
Design considerations, key	effective structural systems and	descriptions of structural	
structural features or systems.	details and their purpose in the	systems and details: little	
structural drawings/sketches.	context of achieving the project	thought put into the design of	
innovative details	objectives: effectively integrates	the structural system: little	
	engineering drawings to describe	sense of purpose in the context	15
	features	of the project boundaries and	
	Tourures	objectives: contains excessive	
		or unrelated illustrations:	
		contains filler / is off-topic	
Prodicted Structural	provides a clear and meaningful	has unclear or illogical	
Robaviore	avplanation of the method for	avplanations of how the	
Explanation of your strategy to	predicting the structural behavior	explanations of now the	10
Explanation of your strategy to	(computer modeling, small coole	structural behavior will be	10
predict the structural behavior	(computer modering, sman-scale	off topic	
Economic Considerations	has compalling financial	has noon on unconvincing	
Economic considerations.	incontinues for the owner to	financial incontinues: contains	
motorial afficiency ato	shoose your design, provides the	filler / is off tonio	
material efficiency, etc.	choose your design; provides the	inner / is on-topic	7
	predicted weight of the structure		
	to demonstrate material		
	efficiency		
writing:	is essentially free of grammar and	nas many grammatical and	
Grammar, spelling, clarity,	spelling errors; each sentence is	spelling mistakes; contains	0
punctuation, sentence structure,	structured effectively; has good	poor sentence structure;	8
word choice	range and accuracy of vocabulary	vocabulary is extremely limited	
		or terms are used incorrectly	
Organization and Presentation	is logically organized with	poorly organized; content lacks	
	effective, smooth, and logical	effective transitions and flow;	
	transitions; contains meaningful	contains irrelevant, ineffective,	
	pictures or diagrams; formatted	excessive, and/or	10
	like a professional document	unprofessional pictures or	
		diagrams; is not formatted	
		appropriately	
Works Cited or Reference	is consistent in format and all	is inconsistent in format or not	
Page: does not count for the	references or citations are	included in proposal	Req'd
page limit	correctly cited		-