**Research Needs Statement**

if there are any specific time constraints please clearly state them here; for example, if there is a special opportunity that should be pursued outside the normal review process then please state that and explain why you believe it to be important.

**Justification and Impact**

Explain why this project is necessary or important (one to two paragraphs). There are infinite questions that could be resolved through research; why should this particular project be pursued, and why should it be pursued now? Describe, in general terms, the expected impact on the structural steel industry should this project be successful.

**Objectives**

Identify the primary objectives (one paragraph or a bulleted list).

**Research Tasks**

Indicate the type of research you believe is necessary: component testing, member tests, frame tests, component FEA, system FEA, or parametric study. Outline the major research tasks necessary to achieve the objectives given above, in the order you expect them to be performed, with a brief description and expected/probable outcomes where appropriate. These should represent the major phases of the project; by way of example a two-year project might have 4 to 6 tasks.

**Anticipated Cost and Duration**

Provide a rough estimate of cost (order of magnitude) and approximate duration. These estimates will not be used to judge the eventual success or failure of the project but they should be realistic. Note that the reviewing committee may use these estimates to help determine if you have a sufficient understanding of what you are proposing.

**References**

References should be very brief, and limited to items that are directly referenced somewhere in this document (for example, if you are arguing that existing studies were inadequate for some reason, you should reference those studies here). The references section may be in smaller type than the other body text of this document, but must still be legible when printed.