



AESTHETIC COMPETITION SERIES

JUDGING CRITERIA

Recognizing that the fundamental purpose of transmission line structures is the safe, reliable, and resilient transmission of electricity over the wires these structures support, all submittals must first fulfill that purpose.

Wherever possible, ASCE Codes and Manuals of Practices shall be used for the transmission structure design and analysis.

Judging will be accomplished in two (2) stages

Stage I – Preliminary Submittals (Due JUNE 30, 2017)

This submittal will be used to determine if a preliminary design concept appears to be able to conform to the technical aspects of the contest:

- Does the submitted design appear to conform to the Engineering Design Parameters outlined for the contest?
- Does the structural design concept appear to be reasonable and practical?
- Does the concept appear to be:
 - Constructible,
 - Safe,
 - Cost Effective,
 - Resilient?

Entrant* shall provide the following items (at a minimum) for each design concept submitted (multiple entries can be submitted, but they should be uniquely different from each other):

1. Preliminary written description of the design concept (contemplated materials to be incorporated into the design, finishes, etc.)
2. Preliminary concept Sketches/Drawings of the proposed design.
3. Preliminary Structural Calculations and configuration dimensions, including electrical clearance measurements.

*Mentoring on the technical aspects of the design (calculations, etc.) may be available to the Entrant if requested.

Each entrant will be provided written feedback from the Stage I (Technical) review Panel that can be used to refine the submittal for the final Stage II required submittal.



AESTHETIC COMPETITION SERIES

Stage II – Final Submittals (Due DECEMBER 1, 2017)

Only entries that have undergone Stage I review will be eligible for Stage II submittal - Final Judging.

Entrant shall provide the following information (at a minimum) for each design concept submitted:

1. A final written summary of each entry describing:
 - a. How will the submitted design incorporate the following “aesthetic concepts” such as:
 - i. Proportion,
 - ii. Order,
 - iii. Balance,
 - iv. Emphasis.
 - b. In addition to the above aesthetic concepts, how does the submitted design address the one or more of the following general elements of current transmission line design:
 - i. Safety
 - ii. Technical Viability
 - iii. Constructability
 - iv. Practicality
 - v. Cost Effectiveness
 - vi. Resiliency
2. A written description of the overall philosophy and as well as the technical approach to the submitted design?
3. Final dimensioned drawings of the design including electrical clearance verification drawings.
4. Final Structural Calculations



AESTHETIC COMPETITION SERIES

Judging of Final contest entries will be based on the following:

1. (40%) Design Quality
 - a. Overall aesthetic appeal of the design (Visual Impact)
 - b. Creativity of the design
 - c. Quality and clarity of the design presentation

2. (40%) Response to and understanding of the requirements of the competition (how well the design concept meets the Engineering Design Parameters of the contest... not "if" they meet those requirements):
 - a. Constructability
 - b. Technical viability
 - c. Safety
 - d. Functionality
 - e. Practicality

3. (20%) Overall philosophy and approach.
 - a. Was there an "aesthetic" inspiration for the design concept submitted?
 - b. Was there a key "purpose" incorporated into the design concept submitted?
 - c. How does the design concept incorporate American Society of Civil Engineers (ASCE) "[Aesthetic Policy](#)" themes?

4. The Stage II Judging panel will consist of both Technical and Non-Technical Judges impartially selected by the ACS Committee.



AESTHETIC COMPETITION SERIES

ASCE - Policy Statement 117 - Aesthetics

Approved by the Infrastructure and Research Policy Committee on March 20, 2014

Approved by the Public Policy Committee on May 9, 2014

Adopted by the Board of Direction on July 13, 2014

Policy

The American Society of Civil Engineers (ASCE) supports aesthetic quality in engineering design. As aesthetics are integral to good engineering design and sustainability, the cost of aesthetic quality should also be integral to design and construction budgeting. Aesthetic quality should be an element of the planning, design, construction, operations, maintenance, renovation, rehabilitation, reconstruction, and security enhancement of the built environment.

Issue

An engineering design can enhance or detract from the environment by virtue of the quality of its visual characteristics.

Rationale

Aesthetic harmony should exist between civil engineering designs and the environment within which these designs are constructed. The environment is both natural and built, and its aesthetic qualities should be preserved and enhanced by design. Basic design qualities can seldom be economically added once a project is constructed. Visual quality and aesthetics must be considered throughout the life-cycle of the project. Aesthetic quality can be achieved in ways that maintain or enhance functional quality.

ASCE Policy Statement 117

First Approved in 1969