TOURNAMENT DATA FORM STRUCTURAL CHALLENGE: THE TENSION BUILDS / PAGE 2 OF 3

Team Name: _____ Team Number: ___ ___ ___ - ___ ___ ___ ___ ___

School/Organization: _____ Level: EL ML SL UL

PART THREE

This Challenge requires the team to supply the following information to help the Appraisers evaluate your solution. This is PAGE TWO of the form. Be sure to fill in all pages.

Structure Specifications: Check to make sure your Structure meets these specifications (see Part A).

- ☐ The Structure is constructed only of Natural Wood, Glue, and/or Monofilament Fishing Line (A.3.a).
- ☐ The weight of the Structure does not exceed 120 grams (EL), 80 grams (ML), 40 grams (SL), 20 grams (UL) (A.3.b).
- ☐ The Structure is at least 7.5in (19.1cm) and no more than 9in (22.9cm) tall (including any height added by the PTB), as measured from the top (flat) surface of the Structure Tester base. (A.3.c)
- ☐ The Structure is a single unit (A.3.d).
- ☐ The Structure has an opening running its entire height which can accept a circular column with an outside diameter of 2in (5.1cm) (A.3.e).
- ☐ The Structure can rest upon the Pyramid Tester Base and fit around the Safety Pole (A.3.f).

1. **The Story about tension.**

   a. Describe the tension in your Story. (A.6.a)

   b. How does tension threaten stability in your Story and how is the tension overcome? (A.6.a)

   c. How is Structure testing integrated into the performance of your Story? (A.6.a.ii)

2. **The Site-Assembled Prop**

   a. Describe your Site-Assembled Prop. (A.7)

   b. Do the parts of your Site-Assembled Prop fit entirely within a 25in x 25in x 37in (63.5cm x 63.5cm x 94cm) measured space? (A.7.a.ii) Yes____ or No____

   c. How is your Site-Assembled Prop assembled in your Story? (A.7.b.ii)

   d. Describe the Technical Design and Engineering Innovation of your Site-Assembled Prop. (A.7.b.iii)

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