

IEEE STD 693-2005 HAS BEEN SUPERSEDED BY IEEE STD 693-2018, AND THE CONTENTS OF THE ZIPPED FOLDER DO NOT APPLY TO THE REVISED VERSION OF THE STANDARD.

**Explanation of Time History files for IEEE 693-2005
02/04/06**

The attached time history files are organized into two packages:

- Empirical (includes 1 Readme text file plus 1 zipped file)
- Random (includes 1 Readme text file plus 1 zipped file)

In general, a user who is preparing time history records for testing has three options:

1. Use the empirically-based records contained in empirical.zip.

The Empirical package consists of a Readme text file which explains the contents of the zipped file, and the zipped file. The zipped file includes the unfiltered, spectrum-compatible time histories, filtering recommendations, and two sample filtered versions of the empirical time history set. The time histories included in this package have been verified to meet the requirements of the new version of IEEE 693-2005, A.1.2.2. In addition, empirical.zip also includes a Matlab code for performing the high cycle-counting procedure required by the reference standard, and a sample problem.

2. Use the numerically-based records contained in random.zip.

The Random package consists of a Readme text file which explains the contents of the zipped file, and the zipped file. The zipped file includes the spectrum-compatible time histories that have been high-pass filtered at 1 Hz. The time histories included in this package have been verified to meet the requirements of the new version of IEEE 693-2005, A.1.2.2.

3. Generate a set of input motion records meeting IEEE 693.

A user may choose to generate his own empirically-based or numerically-based records by using any one of a number of time history synthesizing procedures, provided that the final product meets the requirements given in IEEE 693-2005, Annex A.1.2.2. Empirical.zip includes a Matlab code for performing the high cycle-counting procedure required by the reference standard, and a sample problem.