



SFPE Standards-Making Committee on Calculating Fire Exposures
Database Working Group
Meeting Report – December 14, 2016

Present: Sean Hunt (Working Group Leader), Vyto Babrauskas, Jason Smart, Ulf Wickström, Craig Beyler (Committee Chair), and Chris Jelenewicz (Staff)

The following was discussed:

1. **Literature Review** -- Additional data/reports were uploaded to the ShareDrive:

- Carleton University
- EKU
- SWRI Report -- AWC data
- Brandforsk data from SP

The working group will continue to review technical publications (Journals, Symposia Reports, etc.). Beyler will ask the Jensen Hughes librarian to assist with locating these documents. Additionally, the working group will work on tracking down the following:

- Fire Code Reform Center (Beyler to locate)
- OZONE fire model data
- Data from Paul Croce research (Beyer to locate)

It was noted that the Fire Protection Research Foundation will be conducting tests with cross laminated timber in 2017. This data can be added once it becomes available.

Sean will provide a listing of the reports/data that are currently in the database.

2. Culling/screening criteria – The working group tentatively agreed on the following screening process for the test/reports in the database. A test/report will be eliminated from the database if:

- i. Low peak temperature (under 600C)
- ii. Forced ventilation
- iii. Excessively small scale (< 10 m³) – criteria to be used for new data. For existing data, the working group will review and determine if relevant.
- iv. Unknown boundary construction, openings and other nominal inputs
- v. Change in ventilation occurred during test
- vi. Test was conducted in a furnace
- vii. Lack of data (no temperatures reported)
- viii. Multiple compartments

3. Consensus on comparison metrics – There was a discussion about using data that reports the maximum temperature as a function of time versus data that reports a mean temperature.

It was agreed that both types of data can be used as it is more important to maintain data with good distributions.

It was agreed that the working group will develop a hierarchy of data quality. At the next working group meeting, a ranking structure will be discussed.

4. Timeline/Next Meeting – CJ will schedule the next working group meeting for January.

End of Report