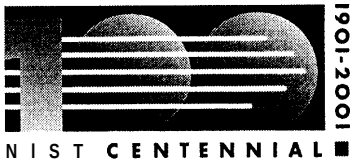
NISTIR 6774

Workshop On Fire Testing Measurement Needs: Proceedings

William Grosshandler
(Editor)



National Institute of Standards and Technology
Technology Administration, U.S. Department of Commerce

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Building and Fire Research Laboratory

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CODES AND REGULATIONS

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HUGHES ASSOCIATES, INC.
FIRE SCIENCE & ENGINEERING

Codes and Regulations

- Drive need for tests
- Specify test & performance levels

Codes and Regulations

- Codes
  - Building/Fire/Mechanical
  - Life Safety
- Regulations
  - CFR's
  - Other Government
  - Commercial/Industrial

Types of Tests in Codes

- Standardized Tests
  - NFPA
  - ASTM
  - UL
  - Other
- Ad Hoc Tests

Codes Typically Require

- Accredited laboratory perform test
- Tests performed in accordance with test method

Future Testing

- Greater reliance on Ad Hoc Tests
- Newer larger-scale fire tests
- More instrumentation/data

Laboratory Participation

- Standards – making organizations
  - NFPA/ASTM
  - The "How & What"
  - Build technical expertise
- Code/Regulations
  - The "Why, Where, When & Intent"
  - Builds technical expertise
  - Builds future business planning

Expectation of Code and Regulations

- Quality performance by Laboratories
- Results are meaningful
- Results are equivalent

Laboratories Must Provide to Codes and Regulations

- Quality performance by Laboratories
- Meaningful results within the scope of the test
- Equivalent results – within lab and lab-lab
- Input with respect to test methods