



NFPA 1402: Standard on Facilities for Fire Training & Associated Props

What does this mean to ME?



Pro Board 2020 Conference



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Fire and Emergency Service since 1982**



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NFPA 1402

Presented by:

- Pete Schecter: Safety Supervisor
JetBlue Airways, Fort Lauderdale, FL
(Chair: NFPA 1402 TC)



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This Presentation Is Dedicated To Public
Safety Providers everywhere, who
deserve a SAFE training environment.
Training is the foundation for Success.....

*"Let No Man's Ghost Return to Say His
Training Let Him Down"*



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The Process:

- **Standards are developed using a workflow or process defined by NFPA**
- **In this case our mandate was to CONVERT from a GUIDE (nice to know) to a STANDARD (required).**
- **Our process involved a diverse group of talented people and took three (3) years**





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Standards Committee Includes:

- Architects
- Engineers
- Prop Manufacturers
- Firefighters
- Technical Rescue Specialists
- Product Specialists
- Training Facility Managers / Administrators



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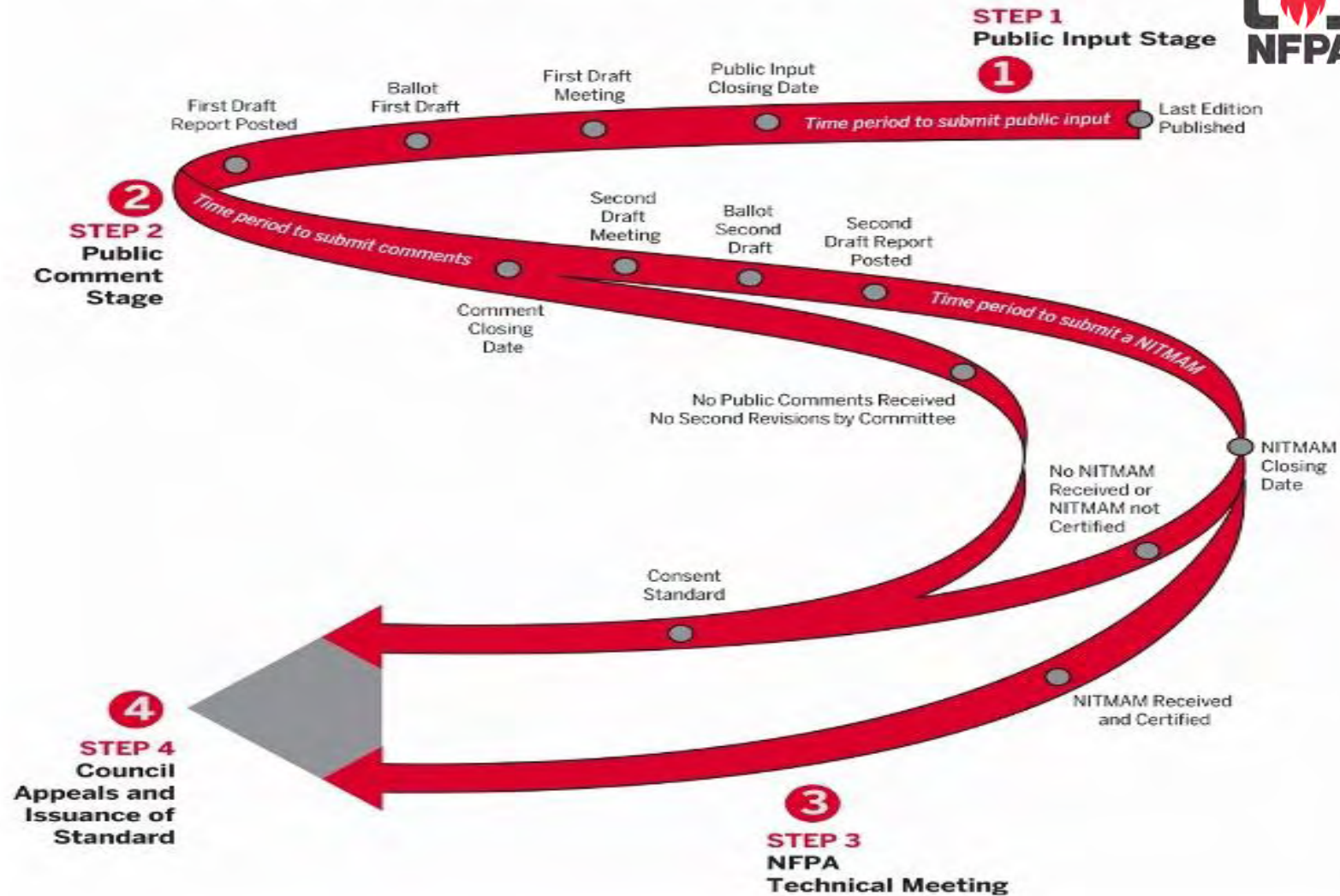
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The Standards Development Process



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Significant Changes: Targeting Lessons Learned from LODD and Injuries at Training Facilities

- Enhance Life Safety for Users

Expanded Scope to Include Other Disciplines Beyond Structural Burn

- Hazmat, Technical Rescue (Rope, Trench, Collapse, Confined Space)
- Fire Investigation: Test Cells and Burn Room Props

Improved Contamination Management

- Harmonization with Wellness & Cancer Prevention Guidelines



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How can this standard benefit me?



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- Provides minimum standards for fire service training props
- Serves as a guide for architects and engineers that are not familiar with training props
- Can be used to bolster funding or support requests from governmental entities (improvements / upgrades)



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The Big Question: Is this Retroactive?

The answer is maybe.



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Significant Changes By Chapter



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Chapter 7: Live Fire Training Structures

- Annual Inspection & Maintenance Requirement
- Structural Integrity Assessment (5 or 10 year interval)
- Evaluation to include Thermal Linings



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Structural Burn Props Changes:



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- Two Means of Egress from EVERY Burn Cell/Room
- Egress to a Safe Area
- No Below-Grade without At-Grade Egress Capability
- Door / Window Operating Hardware PPE Friendly
- Purpose Engineered / Designed / Built Structures



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Chapter 8: Gas-Fueled Live Fire Training Systems (Interior)

- Revised valve and fuel control requirements (SAFER)
- Updated Industry Standards for Ignition Verification & Emergency Stop
- Fresh Air Intake & Exhaust Requirements
- Third Party Listing of Components/Systems
- Improved Flammability air monitoring



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Chapter 9: Gas-Fueled Live Fire Training Systems (Exterior)

- Revised valve and fuel control requirements (SAFER)
- Updated Industry Standards for Ignition Verification & Emergency Stop
- Dead Man Switch Requirement / Safety Interlocks
- Third Party Listing of Components/Systems
- Improved Inspection & Maintenance Requirements



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Chapter 10: Mobile / Transportable Props

- Burn Compartments Required to Have 2 Means of Egress
 - *Exception for gas fire props with no fire blocking single egress
- Updated Industry Standards for Ignition Verification & Emergency Stop
- Dead Man Switch Requirement / Safety Interlocks
- Third Party Listing of Components/Systems
- Improved Inspection & Maintenance Requirements





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Chapter 11: Technical Rescue Props

High Angle Rope Rescue

- Anchor Points:
 - Working Load of 1000lbs*
 - Ultimate load of 10,000lbs
- *In any direction
- High Line Systems
- Testing & Inspection Requirements



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Chapter 11: Technical Rescue Props

Confined Space

- Egress every Fifty (50) Feet
- Not Completely Below Grade
- Ability to Secure & Render Safe



Chapter 11: Technical Rescue Props

Trench

- Egress to Grade Requirements
- Designed by Qualified Person
- Ability to Secure & Render Safe



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Chapter 11: Technical Rescue Props

Structural Collapse

- Rubble Piles and Purpose-Built Structures
- Requires input from qualified person
- Ability to Secure & Render Safe



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Chapter 12: Hazmat Props

- Repurposed tanks/containers certified hazmat free
- Pressurized Props to use Safety factor of 50% (over pressure)
- Portable Props : Stabilization Requirements
- Simulants: Environmentally Neutral
- Pressurization Gas/Liquids: Marked and SDS on Site
- Adequate containment for intended operation at a given site





Chapter 13: Combustible & Flammable Liquid Use

- Design Considerations **(NO INTERIOR USE)**
- Emergency Stop Capabilities
- Fuel Management (How Much, How Fast?)
- Environmental Considerations
- Inspection & Maintenance





Chapter 14: Fire Investigation Structures, Props, Test Cells

- Design Considerations
- Pre and Post-Use Inspection
- Test Cell NOT Structural Burn Room
- Intended to Help Fire Investigation Community be Safer
- Inspection & Maintenance



YOU are our customer:



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- Read, analyze, make comments
- Get Involved
- This is the FIRST VERSION (It can and WILL be Improved)
- Let's Learn From Our Mistakes!!!
- Changes are intended to Prevent/Minimize Risk of Death or Injury Based on Past Events



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How to Become Involved: www.nfpa.org/1402

- Submit Public Input before the next revision
- Submit Public Comment on the next revision
- All public input and comments are reviewed by the 1402 Committee



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For additional Information:



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