



# Burn Building Replacement

Delaware State Fire School

## Comparison of Room Furnishings

Legacy Room



Modern Room



02:11



Disasters  
Laboratory

# Current Burn Building

- Constructed in 1968
- Limited to burning straw
- Designed to demonstrate “fuel limited” fires
- Any repairs made are weaker than original material



# Fires in Existing Building





## Proposed Building

- Built with modified shipping containers
- Insulated to protect metal from heat
- Modular
- Designed to simulate “oxygen limited” fires
- Also contains a variety of accessory props for ventilation, forcible entry, etc.



## Fire Comparison

- Smoke starts out high
- Starts to drop as the fire consumes the oxygen
- Watch how the visibility changes

