2010 Fire Code

Why are we here today?

Because we don't want this...
Construction Fire Safety Training Course

State University of New York, State University Construction Fund, And Contractor

NYS Fire Code, Chapter 14
Fire Safety During Construction and Demolition

NFPA 241
Standard for Safeguarding Construction, Alteration and Demolition Operations

Chapter 14 of the Fire Code
- Compliance with NFPA 241 (1401)
- Minimum Safeguards for construction (1401)
- Owners Responsibilities (1408)
- Emergency telephones (1409)
- Access for fire fighting (1410)
- Means of Egress (1411)
- Standpipes (1413)
- Sprinklers (1414)
- Fire Extinguishers (1415)
- Roof Operations (1417)
**NFPA 241**

- Owner Inspects Project Weekly
- Application (1.31)
- Fire Extinguishers (4.3.4)
- Hot Work (5.1)
- Waste Disposal (5.4)
- Fire Safety Program (7.1)
- Safeguarding Roof Operations (Chapter 9)

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**Shared Responsibilities**

- 1408.1 Enforce provisions of chapter 14.
- 1408.1 Guard service when required.
- 1408.2 Develop a prefire plan(s).
- 1408.3 Training of fire protective equipment.
- 1408.4 Maintain fire protection equipment.
- 1408.5 Supervise the hot work operations.
- 1408.6 Impairments of fire protection systems.
- 1408.7 Temporary covering of devices.

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**Weekly Inspections**

- Site Reps are already:
  - On site inspecting work
  - Ensuring compliance with much of NYSFC
- Weekly Inspection required by NFPA 241
  - Checklist would meet required documentation
  - Serve as a guide/tool for Site Reps
  - Serve as a education tool for the Contractor
Weekly Inspections

- Weekly Fire Code Review (Checklist)
- Fire Safety Form

1. Temporary Separation Walls {8.6.2}
- Is there adequate separation between the work area and the rest of the building? (One hour separation walls and 45 min opening protectives are often required by 8.6.2)
2. Temporary Enclosure {4.3.1}

- Area all panels, tarps, plastic sheeting, etc. flame retardant?

3. Impairments

- Is egress from the occupied area compromised?
- Will fire alarm and/or detection systems in occupied area be temporarily impaired?
- Have all impairments/restrictions been approved by the campus fire prevention program superintendent?
4. Fire Extinguishers {4.3.4}

- Are appropriate fire extinguishers readily available, with a maximum travel distance of 50 feet?

5. Internal Combustion Devices {4.4}

- Are all internal combustion devices, where required, exhausted outside, with at least 9 inches between exhaust and combustible materials? Is refueling only done on cool engines?

6. Temporary Heating {5.2}

- Is temporary heating equipment listed and used according to the manufacturer’s requirements?
6. Temporary Heating {5.2}

7. Hot Work Programs {5.1}
- Is there a current permit for ongoing operations?
- Are all precautions required by the permit in place?
- Is there a dedicated fire watch?
- Does the fire watch extend after the completion for work (e.g. usually minimum of 30 min. in general or 2 hrs for roofs)?
8. Waste {5.4}

- Are accumulations of waste materials, dust, and debris removed at the end of each shift (or more frequently as needed)?

- Are materials subject to spontaneous ignition (e.g., oily rags) stored in listed disposal containers?

9. Trash Chutes {5.4}

- Are trash chutes non-combustible, or provided with sprinkler protection?
9. Trash Chutes (5.4)

10. Flammable/Combustible Liquids (5.5)

- Are flammable/combustible liquids in proper containers and is there less than a total of 60 gallons inside and within 50 feet of the structure?
11. Compressed Gases
{NV5 Fire Code Chapter 30}

- Are compressed gases properly stored and used?

12. Electrical {6.1}

- Are extension cords rated and free from damage?
- Do all branch circuits originate in approved power outlets or panel boards with over current protection?
- Are all circuits grounded?
13. Lighting {6.1.3}

- Do all temporary lights have guards?
- Are lights only suspended by their cords when designated to be so suspended?
- Are they fastened securely, if necessary, to prevent ignition of combustible materials?

14. Fire Safety Plan {7.1}

- Have fire safety plan(s) been established?
15. **Fire Alarms {7.4}**

- Is there a readily available pull box for fire alarms? If a telephone is used, are instructions clearly posted?

16. **Command Post/Evac Area {7.5}**

- Is there a designated command post provided with plans, emergency info, keys, communication, and other equipment as needed? Is there a clear post-evacuation muster location?

17. **Fire Access {7.5}**

- Are pre-approved fire department access routes being maintained?

- Is there clear access to hydrants, standpipe and fire department connections?
17. Fire Access {7.5}

18. Standpipes {7.6, 8.7.4}
- Are standpipes ready for use, and remain within one floor of the top level during construction/demolition?

19. Egress {7.8}
- Is the means of egress acceptable (e.g. properly marked, clear, safe, lighted)?
19. Egress {7.8}

20. Sprinkler {8.7.3}

- Is the sprinkler in place as soon as practicable following construction? Are sprinkler valves checked at the end of each shift?

21. Fire Cutoffs {8.6.1}

- Are fire walls and exit stairwells, where required for the completed building, given construction priority for installation? Are fire doors installed as soon as practicable?
22. Stairs {7.5.6}

- Is a stairwell provided for buildings?
- Is the stairwell extended upward as each floor is installed in new construction and maintained for each floor still remaining in demolition?
- Is it lit?
- Is it enclosed when the building exterior walls are in place?
- Is signage provided indicating floor level, stair designation, and exit path directions?
- Are extinguishers provided at each floor?

22. Stairs {7.5.6}

23. Impairments to fire protection systems or fire alarm, detection or communication systems {7.2.4}

- Are temporary impairments of all fire protection devices and alarm/detection systems immediately removed upon completion of work in the area and at the end of each shift? Is there an impairment coordinator?
Questions...