



NYC

Buildings

**Construction Safety Week
April 26 – 30, 2010**

413,981 inspections

440,110 plans reviews

135,854 permits

63,624 violations

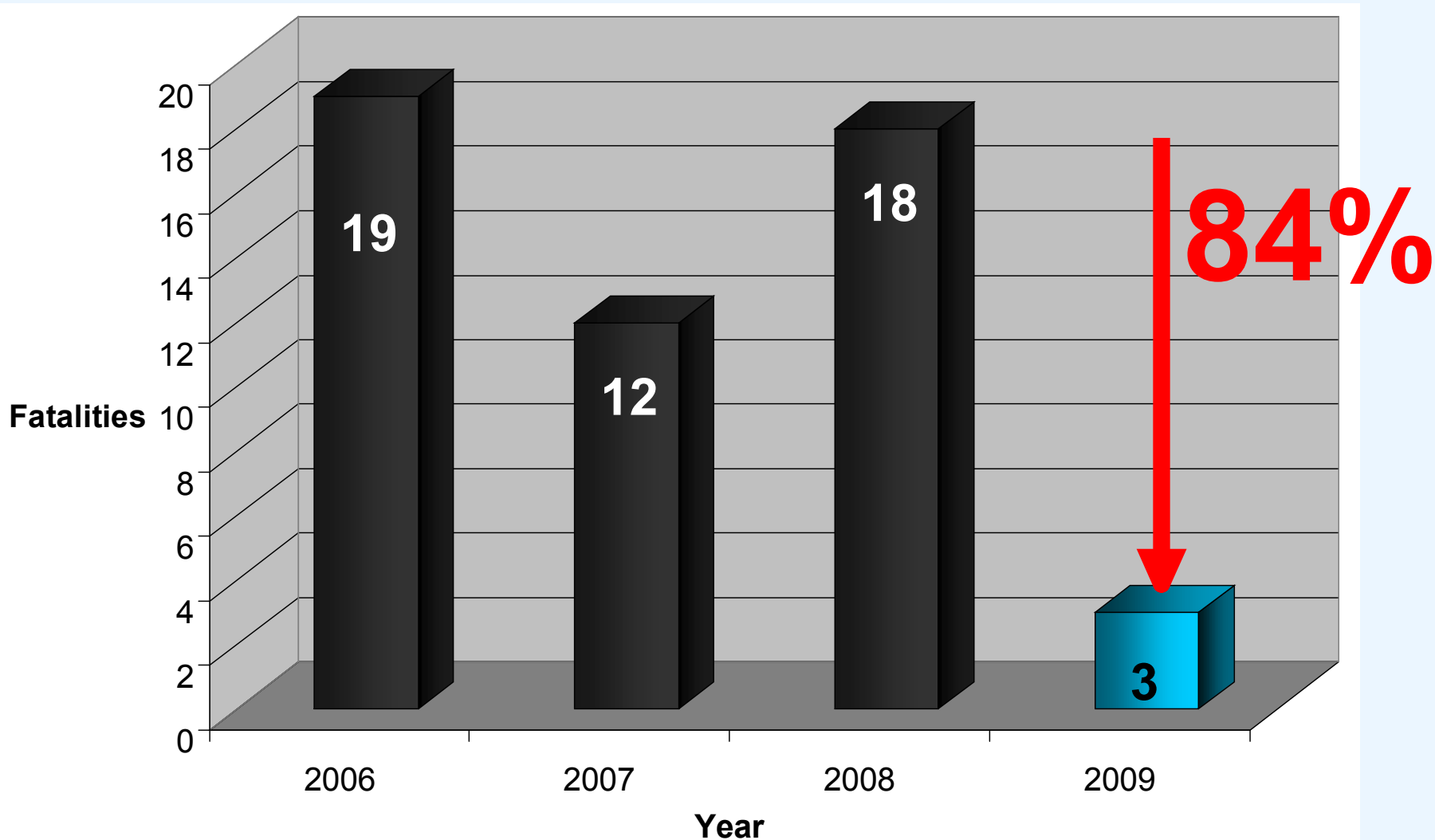
10,009 Stop Work Orders

16,445 licenses & registrations

Commitment to Safety



Fatal construction accidents decreased by 84 % in 2009





Experts analyzed:

- **Concrete Operations**
- **Excavation Operations**
- **Crane Operations**
- **Hoist Operations**

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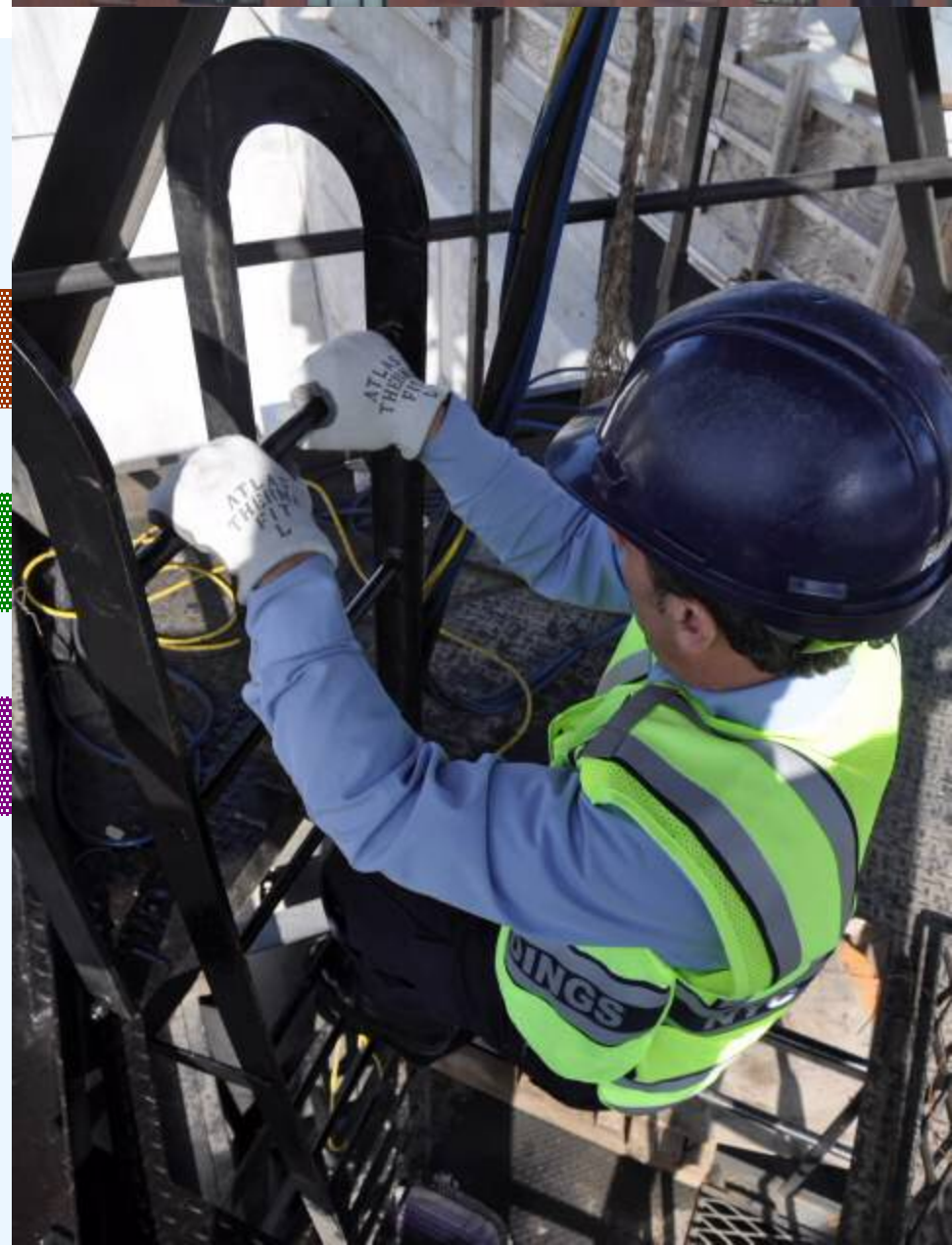
Recommendations

New specialized units:

→ Stalled Sites Unit

→ Concrete Unit

→ Excavation Unit





**25 New Laws
to improve safety**

Increasing Awareness





3 Weeks
5 Boroughs
11 Languages
25 Distribution sites
64,500 Flyers


LIVING SAFELY
 Vivir con seguridad

YOUR APARTMENT / ROOM COULD BE ILLEGAL IF YOU ANSWER YES TO ANY OF THESE QUESTIONS:

Is your bedroom in the cellar?
(¿Está su dormitorio en el sótano?)

Do you live in the attic?
(¿Vive ud. en el ático?)

Do you get electricity with an extension cord?
(¿Obtiene ud. electricidad con una extensión eléctrica?)

Do you lock your room with a padlock?
(¿Cierra ud. el cuarto con un candado?)

SU APARTAMENTO O CUARTO PUEDE SER ILLEGAL SI SU RESPUESTA ES SI A CUALQUIERA DE ESTAS PREGUNTAS:

¿Está su dormitorio en el sótano?
(¿Obtiene ud. electricidad con una extensión eléctrica?)

¿Vive ud. en el ático?

¿Obtiene ud. electricidad con una extensión eléctrica?

¿Cierra ud. el cuarto con un candado?

ILLEGAL APARTMENTS CAN PUT YOU AND YOUR FAMILY IN DANGER.

STAY SAFE

- Have two ways to get out.
- Have a carbon monoxide detector with good batteries.
- Give space heaters a break to cool down.

UN APARTAMENTO ILLEGAL PUEDE SER PELIGROSO PARA SU FAMILIA.

MANTÉNGASE SEGURO

- Tenga dos maneras de salir.
- Mantenga un detector de humo y de monóxido de carbono con baterías que funcionan.
- Permita que el calentador individual se enfríe.

The City can immediately remove unsafe/illegal apartments or rooms. Landlords can be fined up to \$25,000 and their units can be closed. To learn more about illegal living, contact us at: NYC Buildings Community Outreach, call 311.

El Ciudad puede remover inmediatamente apartamentos y cuartos ilegales. Los dueños de inmuebles pueden ser multados hasta \$25,000 y sus unidades pueden ser cerradas. Para aprender más sobre las condiciones ilegales o para pedir una inspección al Departamento de Edificios, llame al 311.


LIVING SAFELY
 Vivir con seguridad

SIGNS YOUR APARTMENT OR ROOM MIGHT BE ILLEGAL: SU APARTAMENTO O CUARTO PUEDE SER ILLEGAL:



ILLEGAL APARTMENTS CAN PUT YOU AND YOUR FAMILY IN DANGER. UN APARTAMENTO ILLEGAL PUEDE SER PELIGROSO PARA SU FAMILIA.



- Increase awareness about the importance of wearing a safety harnesses
- **>1,500** posters, **350** banners and **20,000** pamphlets in **7** languages were distributed across the City



The background of the slide is a photograph of a multi-story building under construction. The building's steel framework is visible, with some blue structural elements. A safety net is draped over one of the upper levels. The sky is overcast with grey clouds. A large, semi-transparent red banner with a fine dot pattern is overlaid across the middle of the image, containing the title text in white.

New Safety Laws for Construction, Demolition & Abatement Sites

**William Kendall, Director of Operations Redesign
Senior Architect John Lee, RA, LEED AP**

Following the fatal fire at 130 Liberty Street in Manhattan, Mayor Bloomberg convened a multi-agency working group to assess:

- Inspection Practices
- Data Sharing
- General Oversight
- Conduct of Field Operations



Photo Credit: Edward Reed

**The recommendations
focused on four key areas
for implementation:**

- **Oversight of Abatement**

Operations

- **Oversight of Demolition**

Operations

- **Inspection Protocols**

- **Data Exchanges**




**Strengthening the Safety,
Oversight and Regulation
of Demolition and
Abatement Operations**

Report & Recommendations to
Mayor Michael R. Bloomberg



Demolition & Abatement Working Group
Deputy Mayor Edward Sklar, Chair
July 2008

A photograph of Mayor Michael Bloomberg and several other men in suits standing behind a podium in a formal room. A man in a police uniform is visible on the right. A large blue text box is overlaid on the image.

**Mayor Bloomberg has signed
12 CDA bills into law**

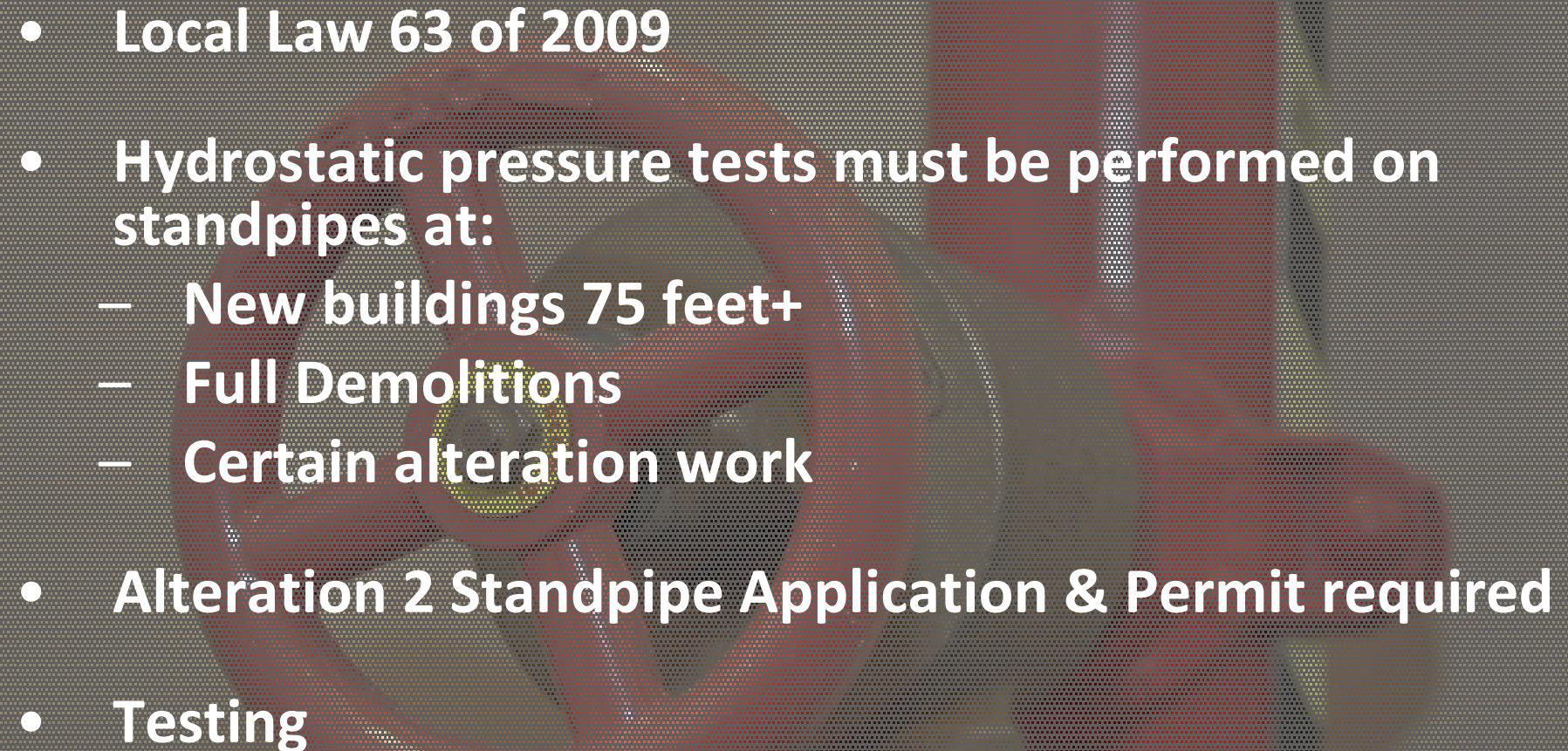
- **Local Law 57 of 2009**
- **Requires full demolition applicant to be a Licensed Professional**
- **Exception:**
 - **1-, 2-, 3-family homes less than 4 stories**
 - **Buildings less than 4 stories with less than 5,000ft²/story**

- Local Law 39 of 2009
- DOB, DEP, and FDNY to establish a procedure to share violations information
- Can now view DEP & FDNY violations on DOB's BIS system



- Local Law 59 of 2009
- Site safety manager must conduct:
 - Daily checks of standpipe connection
 - Daily checks of valves at each floor
 - Weekly “tracing” of the standpipe

- **Local Law 64 of 2009**
- **Air pressurized alarms on standpipe systems at:**
 - **New buildings 75 feet+**
 - **Full Demolitions**
- **Required:**
 - **Drawings of alarm system**
 - **Alteration 2 Standpipe Application & Permit**
- **Testing**

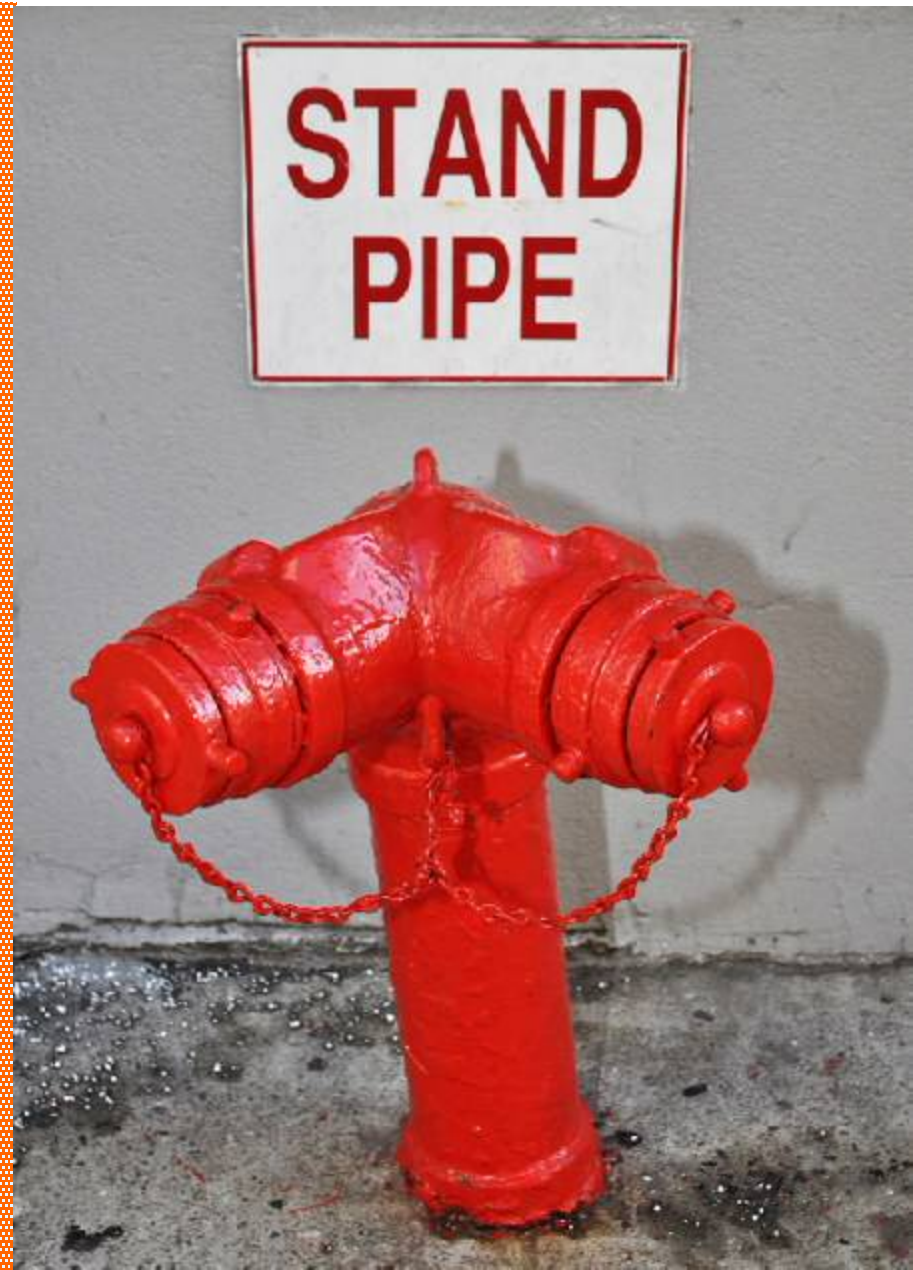
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- A close-up photograph of a red fire hydrant with a large red handwheel. The image is semi-transparent, serving as a background for the text.
- **Local Law 63 of 2009**
 - **Hydrostatic pressure tests must be performed on standpipes at:**
 - **New buildings 75 feet+**
 - **Full Demolitions**
 - **Certain alteration work**
 - **Alteration 2 Standpipe Application & Permit required**
 - **Testing**

- **Local Law 60 of 2009**
- **A separate application must be submitted for cutting and capping of sprinklers and standpipes at:**
 - **Full Demolitions**
 - **Alteration work that involves removal or partial removal of the sprinkler or standpipe system**
- **Required:**
 - **Alteration 2 Standpipe Application & Permit**

OR

 - **Limited Alteration Application**
- **Testing**

- **Local Law 58 of 2009**
- **All buildings must have their sprinkler and standpipe systems painted by June 2, 2010**
- **Existing Buildings**
 - **Certificate of Compliance with Color Coding Form**
- **Buildings Under Construction**
 - **Special Inspector verifies painting (jobs permitted after March 2)**
 - **Certificate of Compliance**




- Local Law 35 of 2009
- Local Law 36 of 2009
- Smoking prohibited on all construction sites, including demolition
- Smoking, tobacco, lighters and matches prohibited at asbestos abatement work sites



- **Local Law 37 of 2009**
- **DEP's Asbestos Technical Review Unit (A-TRU) now reviews and permits asbestos abatement projects**
- **If abatement is required, prepare ACP7 using DEP's Asbestos Reporting & Tracking System (ARTS) and submit to A-TRU**
 - **Abatement notification cannot be filed at DOB**
 - **When abatement is completed, submit ACP 21 or ACP 20 to DOB**
- **If project is exempt, submit ASB4 to DOB**
- **If abatement is not required, submit ACP5 to DOB**

DEP PRESENTATION

FDNY PRESENTATION




Fall Protection Systems

Miguel Padin


Chief Inspector, Best Squad

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- **Cocooning**
 - **Horizontal Nets**
 - **Vertical Nets**
 - **Guardrails**
 - **Hole Covers**



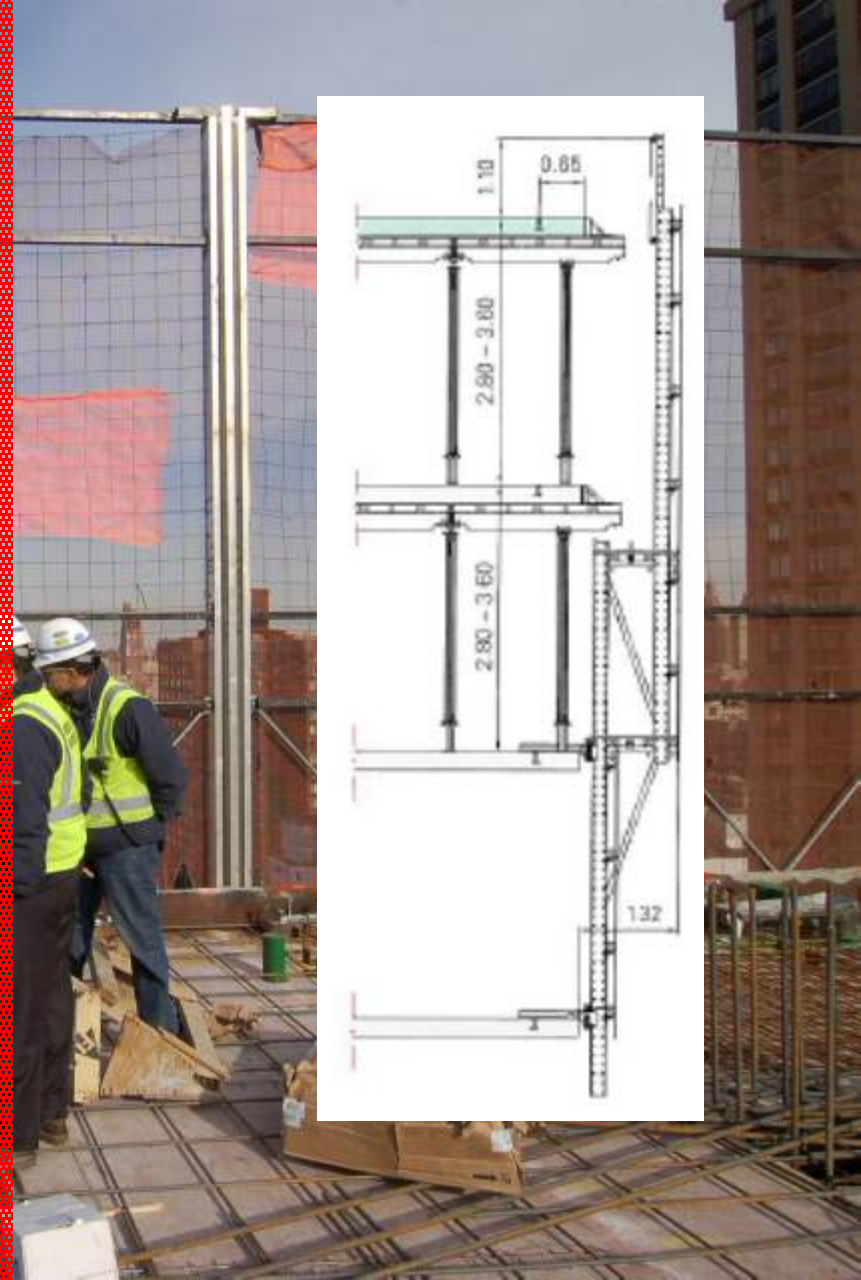
A photograph of a construction site on a high-rise building. A large, clear safety net is stretched across the edge of the floor, held up by red straps. The net provides a view of the city skyline, including the Chrysler Building. In the foreground, there are construction materials, including a large metal beam and some orange plastic sheeting. A yellow caution tape with the word 'CAUTION' is visible in the bottom right corner.

Protects workers
Protects the public
Protects the work space
Protects adjacent properties



A protective system that partially/fully encloses a building while undergoing construction operations

- Assemblies developed by prefabricated formwork manufacturers
- Re-useable panels lifted
 - Hydraulically
 - Manually
 - Crane
- Independent of formwork system employed for concrete construction



Sites that have used cocoon systems:

- 1280 Fifth Avenue
- 306 West 44th Street
- 8 Spruce Street
- 150 Amsterdam Avenue
- 20 East 23rd Street
- 440 West 42nd Street
- 1 World Trade Center
- 885 Avenue of the Americas

Netting that extends outward horizontally at minimum 10 ft from building to protect workers and the workspace from falling debris.



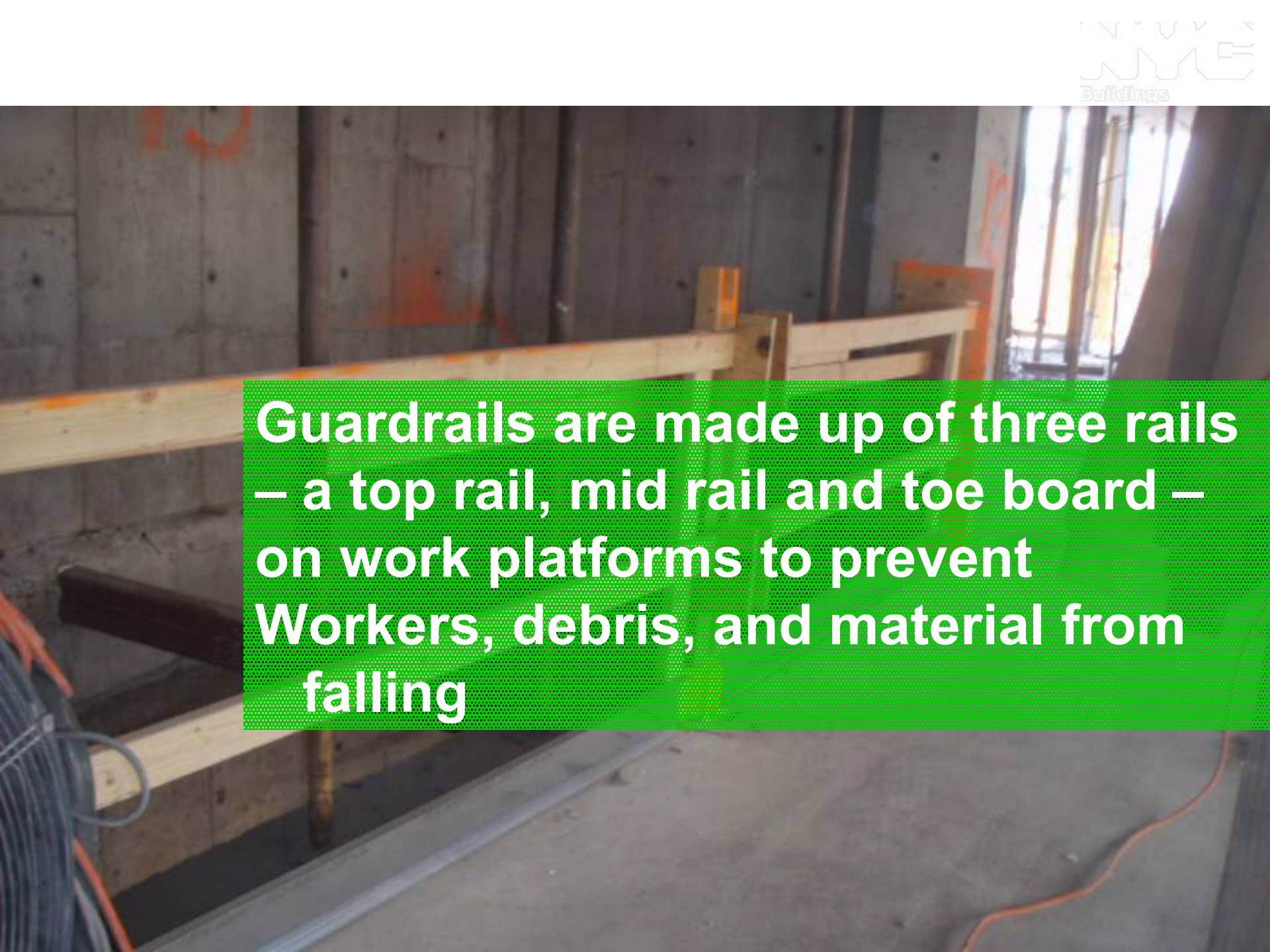
- Required on all buildings taller than 75 ft or 6 stories undergoing construction
- Must be installed 2 stories or 30 feet below stripping operations
- Can be removed after stripping operations are completed on concrete structures and the when the last floor is poured on steel structures
- Must be maintained in accordance with the Building Code





Vertical netting is erected along perimeter of open floors construction sites to prevent material/debris from falling from the site.

- **Required on all buildings 4 stories or 40 ft tall**
- **Must extend from the bottom of a floor and to a height of at least 5ft**
- **Must be maintained in accordance with the building code**




Guardrails are made up of three rails – a top rail, mid rail and toe board – on work platforms to prevent Workers, debris, and material from falling



- Top-rail must be at least 3ft 6 inches tall
- Top-rail must be able to withstand 200lbs of downward/horizontal force
- Mid-rail must be 19 inches from the work platform
- Mid-rail must be able to withstand 150lbs of downward/horizontal force
- Toe board must be at minimum 5ft 1/2 inches tall



Pieces of wood that are secured over holes on construction sites to prevent against materials from falling

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- The background of the slide is a photograph of a construction site. It shows a concrete floor with several circular holes. A blue tarp is partially covering one of the holes. A wooden board with orange paint is visible in the lower right corner. The text is overlaid on a blue, textured rectangular area.
- **Holes in floors should be covered to safeguard all persons on construction sites**
 - **All holes must be required during both construction and demolition**
 - **Covers must be secured when installed to prevent displacement by workers, equipment or the weather**

A construction worker in blue overalls and a hard hat is working on a rooftop. The worker is positioned on the left side of the frame, leaning over a metal railing. The background shows a dense urban skyline with various skyscrapers, including the Chrysler Building with its distinctive Art Deco spire. The sky is blue with some light clouds. In the foreground, there are construction materials, including a metal beam and some orange safety netting. A yellow caution tape with the word "CAUTION" is visible in the bottom right corner. A large orange banner with the word "Questions?" is overlaid across the center of the image.

Questions?