



Hazard Recognition

Allowable Controls
and
Best Practices

Vertical Exposures

- Rebar
- Formwork



Vertical Rebar

- OSHA allows:
 - Climbing to 24'
 - Tie-off at work location over 6'
- Recommended:
 - Tie during the climb



Formwork

- Required Fall Protection at 6'
- Recommended:
 - Use scaffold brackets
 - Ensure safety over/on top of the wall



Steel Erection

- Connectors
- Detail Work
- Decking

- *Fall Protection Systems in Accordance With Subpart M Systems Criteria (1926.502)*



Connector Safety

- Personal Fall Arrest Systems required at 15'
- Connector option to 30' or two stories, whichever is less
- Best Practice:

NO OPTION



Detail Work

- Fall Protection Required at 15'
- Guardrails
- Nets
- Personal Fall Arrest Systems



Decking

- PFAS
- Controlled Decking Zones
- Guardrails (after leading edge work is complete)



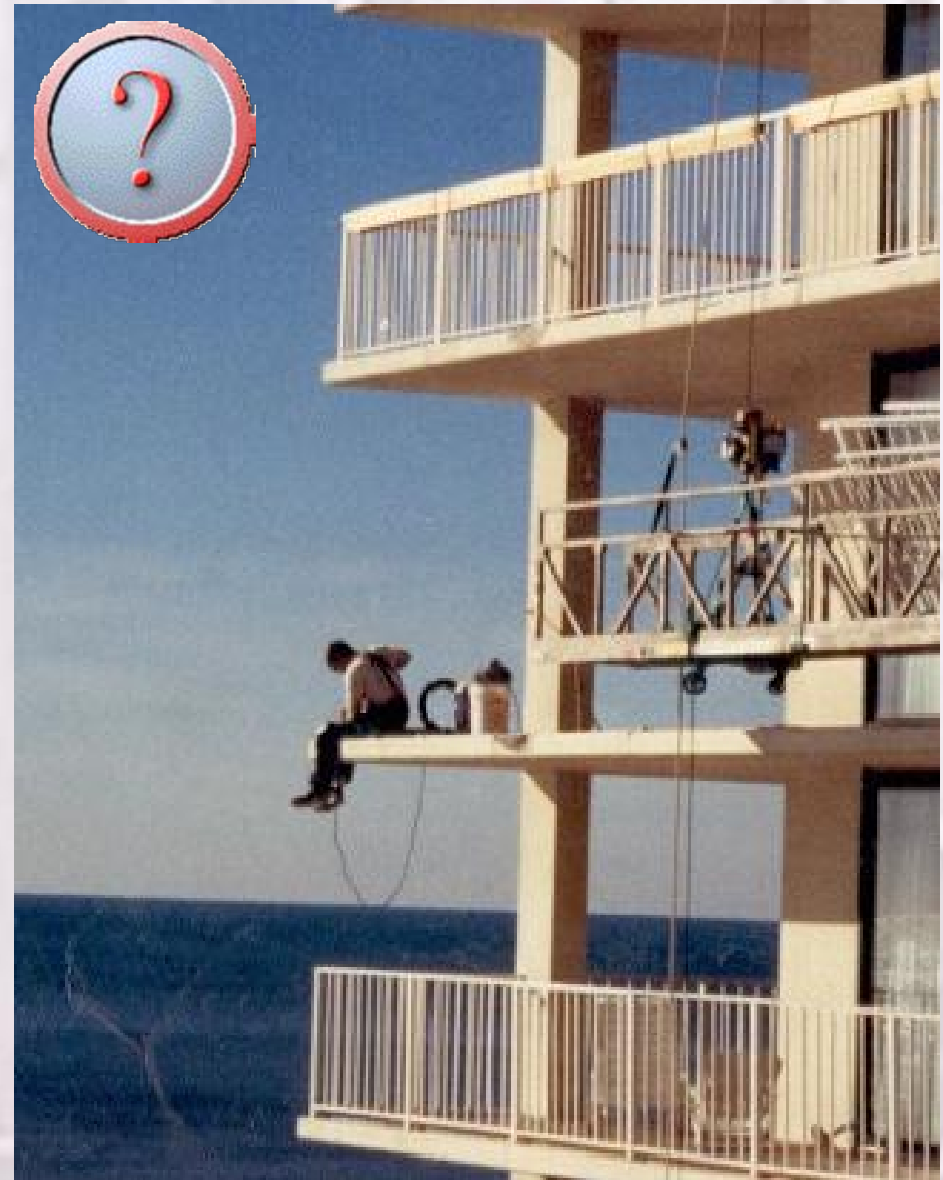
Controlled Decking Zones

- Required where PFAS cannot be used, from 15-30'
- Limited in size
- Must be marked
- Training required
- Not applicable over 30', or two stories, whichever is less



Decks (Walking & Working Surfaces)

- Open-sided Floors
- Holes
- Leading Edges



Open Sided Floors

- Guardrails
- Catch Platforms
- Restraint Devices
- Safety Nets



Guardrails

- Primary Issues
 - Complete System
 - Full coverage
 - Accessways/Ladderways
 - Material Handling Areas
 - Proper construction
 - Strength
 - Deflection
 - Maintenance
 - Custody & Control



Coverage

Bad



Better



Accessways/Ladderways

Bad



Better



Material Handling



When areas have been opened, PFAS is required
Gates are preferred to removable rails

Wood Guardrail Construction

Proper Height

Midrails

Toeboards

Adequate Strength



Cable Guardrail Construction

- Proper Height
- Cannot deflect below 39"
- Marked every 6'
- Terminations and Attachments
- Maintenance!



Holes

- Covers
- Guardrails



Skylights



Must be protected

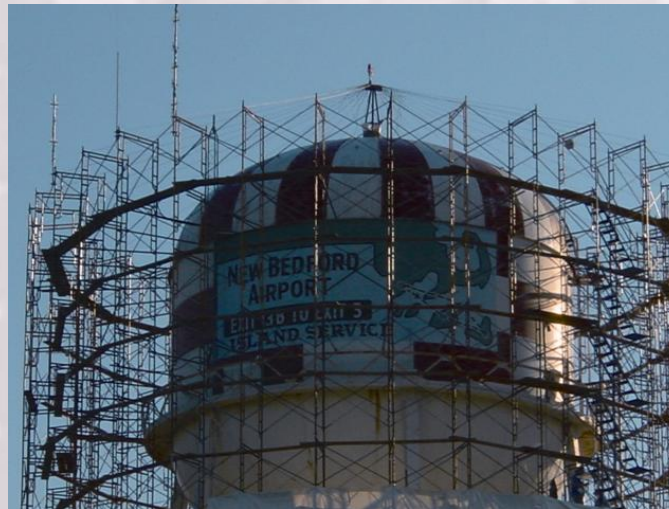
Leading Edges

- Catch Platforms
- PFAS
- Nets
- In some instances (residential construction and pre-cast concrete), a site-specific fall protection plan



Scaffolds

- Supported
 - Fabricated Frame
 - Tube & Coupler
 - Wall Brackets
 - Form Brackets
 - Ladder Jacks
 - Pump Jacks



Scaffolds

- Suspended
 - Swings
 - Multi-point
 - Catenary



Scaffolds

- Access
- Planking
- Guardrails
- Erection & Dismantling
- Training



Scaffold Access

Bad



Better



Scaffold Platform Construction

Bad

Better

