

# Utah Tilt-Up & Wall Raising Safety

Guy's Construction

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UOSHA + 29 CFR 1926.704

Effective Date: June 08, 2026

**SAMPLE DOCUMENT - NOT FOR COMPLIANCE USE**

## UTAH-SPECIFIC WALL RAISING REQUIREMENTS

**Utah (UOSHA) operates a state plan with specific requirements for tilt-up and precast panel erection beyond federal OSHA.**

- state-specific residential construction wall raising safety standard

*R614-7-4*

- residential wall raising safety - no federal equivalent

*R614-7-4*

- no state-specific written safety program beyond federal

*R614-1-5*

- employees protected from discrimination for exercising safety rights under Utah Code Title 34A Chapter 6

*Utah Code 34A-6*

- follows federal 1904.2 partial exemptions but Utah-specific enforcement through Utah OSHA Division

*29 CFR 1904 as adopted by Utah*

- a diagrammatic sketch of the mechanical installation along with a detailed explanation of the flow, procedures and frequency of well tests, calibration/proving of metering devices and allocation formula
- third physician to conduct examinations, consultations, laboratory tests and discussions with prior physicians as necessary to resolve disagreement
- the overall status of implementation of the provisions of this Part relating to the identification, inventory, and removal of underwater obstructions
- fiberboard box (4G) or fiber drum (1G) with plastic inner packaging not exceeding 5 kg (11 lbs) and maximum net mass not more than 25 kg (55 lbs)
- a list of interested parties (those with interests in the leases and/or units from which production is to be commingled for which the applicant has no existing commingling authority)
- in collapse zone during lifting
- qualified engineer
- 2 braces per panel
- Minimum 2x Maximum Intended Load
- Line size 10"-16" nominal diameters
- the availability of sufficient oil spill recovery devices to provide the effective daily oil recovery capacity required
- means of a derail in front of the cars
- raising longest exterior wall first, followed by opposite exterior, end walls, interior bearing walls, then partitions
- state-specific safety standard
- 150 feet in front of the front of the vehicle or the point from which the beacon or strobe light is first visible on the street or highway in front of the vehicle, whichever is closer to the vehicle
- against generator or transporter who disposes of TCEQ-regulated wastes without authorization at an RRC-permitted facility
- the worst case discharge volume of oil for the facility; the appropriate group(s) for the types of oil handled, stored, or transported at the facility (Groups A or B); and the geographic area(s) in which
- automatically provide visual and audible signals at the designated surface location for any interruption of circuit continuity and any electrical malfunction of the system

- PreCast Concrete Plan
- certificate of compliance signed by the precast concrete product manufacturer
- Adequate Support Until Permanent Connections Completed

1926.704(a)

- plywood covers fabricated in precast yard and shipped to jobsite
- insulated to a degree at least equal to that of the original and sealed to exclude moisture
- notice of intention (form 4) to plug with the director, and obtain the approval of the director, prior to the commencement of plugging or plug-back operations
- planning quantities for the marine transportation-related portion of the facility
- the vessel has been completely purged of fumes
- as close to the working face as practicable

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## FEDERAL BASELINE (29 CFR 1926.704)

Federal requirements for precast concrete:

- temporary bracing designed by qualified engineer; minimum 2 braces per panel; no workers in collapse zone during lifting

29 CFR 1926.704

- minimum 2x maximum intended load capacity

29 CFR 1926.704(b)

- Capacity of Minimum 2x Maximum Intended Load

1926.704(b)

- adequate support until permanent connections completed

29 CFR 1926.704(a)

- Capacity of Minimum 4x Maximum Intended Load

1926.704(c)

- Line size 10?-16? nominal diameters
- the availability of sufficient oil spill recovery devices to provide the effective daily oil recovery capacity required

## TILT-UP PANEL ERECTION SAFETY

**Tilt-up panel collapse is a catastrophic event. Temporary bracing must remain in place until all permanent connections are complete.**

- Bracing plan by PE required before any panel is lifted
- Temporary braces: minimum 2 per panel, rated for wind and seismic loads
- Brace connections: welded embed plates or mechanical anchors per PE design
- No work directly under a panel being lifted, set, or braced
- Wind speed limits for erection: per crane capacity chart and bracing design
- Daily inspection of all temporary bracing by competent person
- No brace removal until PE authorizes (permanent connections complete and verified)

## UTAH SEISMIC CONSIDERATIONS

- Utah is in Seismic Design Category D-E along the Wasatch Front
- Bracing design must account for seismic loads per IBC/ASCE 7
- Panel connections must be designed for seismic forces (not just gravity)
- Temporary bracing during erection must resist seismic forces that could occur during construction

## CRANE OPERATIONS FOR PANEL ERECTION

- Crane capacity: rated for panel weight + rigging at the working radius
- Ground conditions: verify bearing capacity for crane setup near panels
- Lift plan for each panel type (weight, pick points, rigging, radius)
- Signal person: designated and in direct communication with operator
- Tag lines on all panels during lift and set

## APPENDIX A: TILT-UP ERECTION DAILY CHECKLIST

Date: \_\_\_\_\_

Project: \_\_\_\_\_

Inspector: \_\_\_\_\_

Panel Numbers: \_\_\_\_\_

Item	Notes	OK	N/A
PE-stamped bracing plan on site			
Crane inspected and within capacity			
Ground conditions verified for crane setup			
Temporary braces installed per PE plan			
Brace connections verified (welds, anchors)			
No personnel under panels during lift			
Wind speed within limits	Speed: ____ mph		
Tag lines on all panels			
Signal person designated			
All permanent connections from previous day verified			

Competent Person: \_\_\_\_\_

Date: \_\_\_\_\_

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