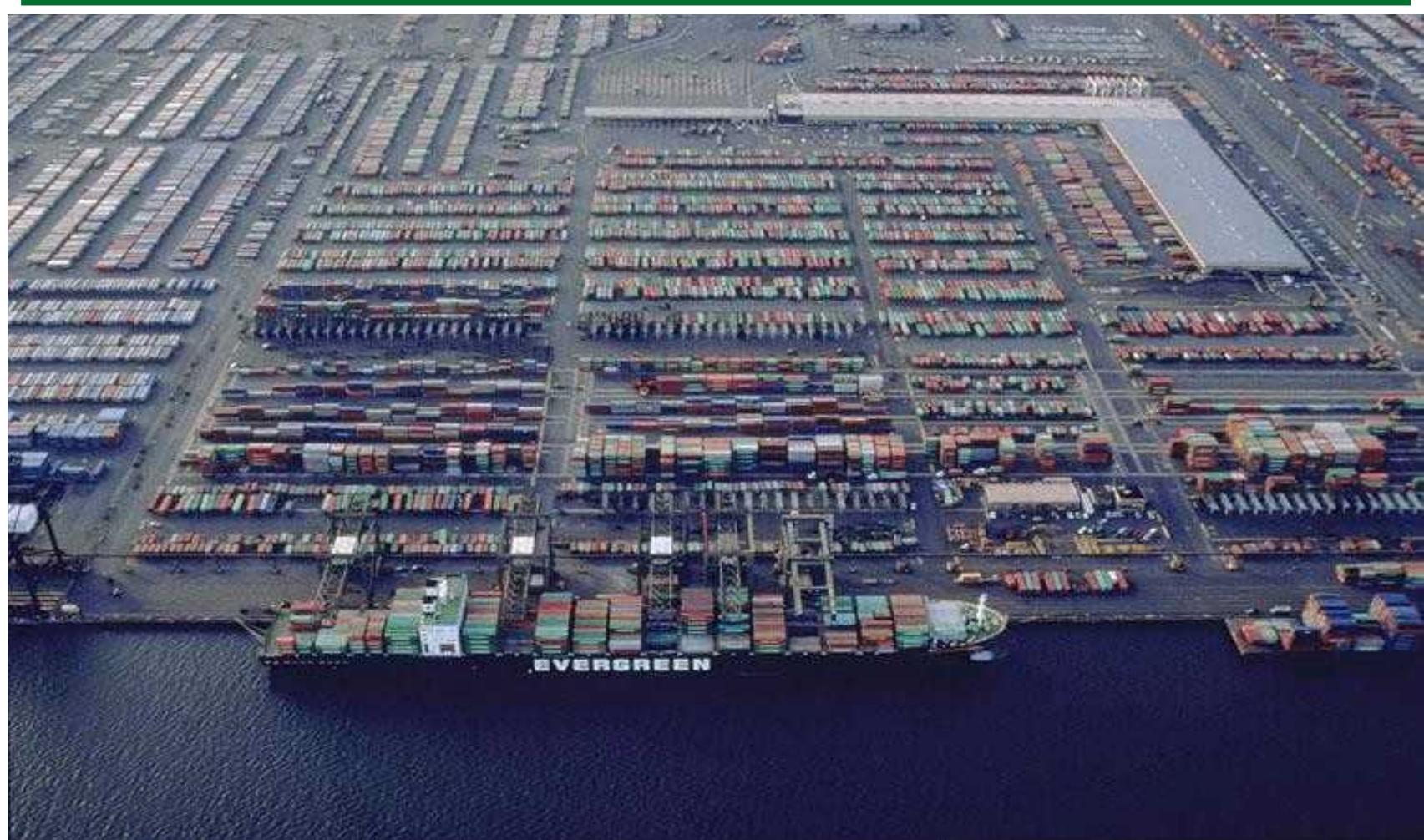


1917 - Subpart B - Marine Terminal Operations



1917 - Subpart B

- 1917.11 – Housekeeping
- 1917.12 - Slippery conditions
- 1917.13 – Slinging
- 1917.14 - Stacking of cargo pallets
- 1917.15 – Coopering
- 1917.16 - Line handling
- 1917.17 - Railroad facilities
- 1917.18 - Log handling



1917 - Subpart B

- 1917.19 - Movement of barges and railcars
- 1917.20 - Interference with communications
- 1917.21 - Open fires
- 1917.22 - Hazardous cargo
- 1917.23 - Hazardous atmospheres & substances
- 1917.24 - Carbon monoxide

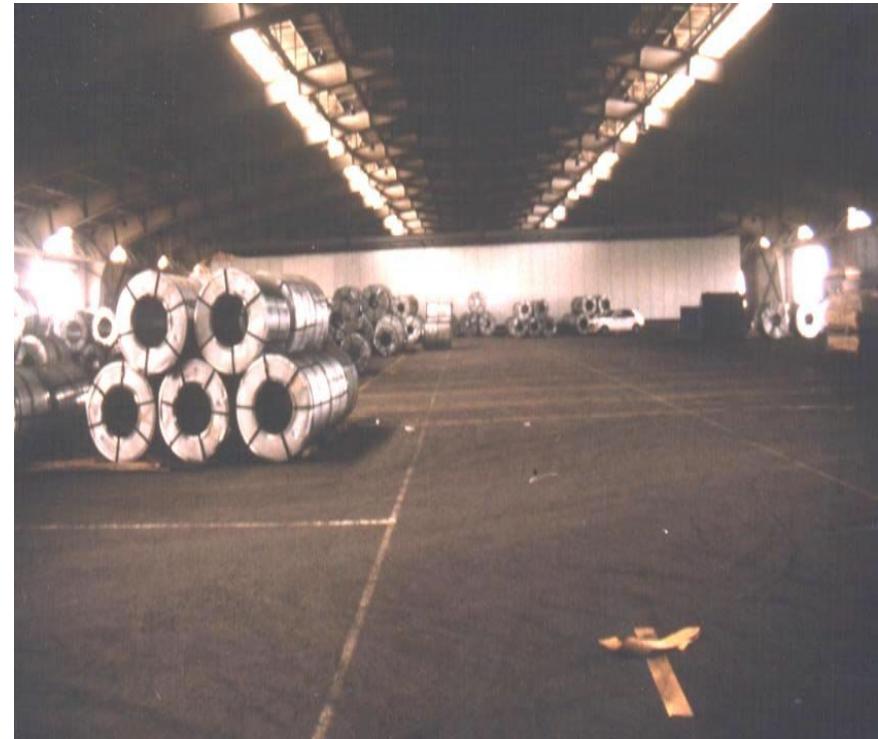
1917 - Subpart B

- 1917.25 - Fumigants, pesticides, insecticides and hazardous preservations
- 1917.26 - First aid and lifesaving facilities
- 1917.27 – Personnel
- 1917.28 - Hazard communication
- 1917.29 - Retention of DOT markings, placards and labels
- 1917.30 - Emergency action plans

Housekeeping

1917.11(a)

- Work areas - kept clear of equipment, materials, and debris.







Housekeeping

1917.11(b)

- Hatch beams, covers, and pontoons placed in working areas
 - Stowed in stable piles
 - Secured against tipping **or** falling
 - If more than one high – dunnage under and between tiers



Housekeeping

1917.11(c)

- Cargo and materials shall not obstruct access to buildings



Housekeeping

1917.11(d)

- Protruding nails removed or flattened from dunnage, lumber, and shoring material





Slippery Conditions

1917.12

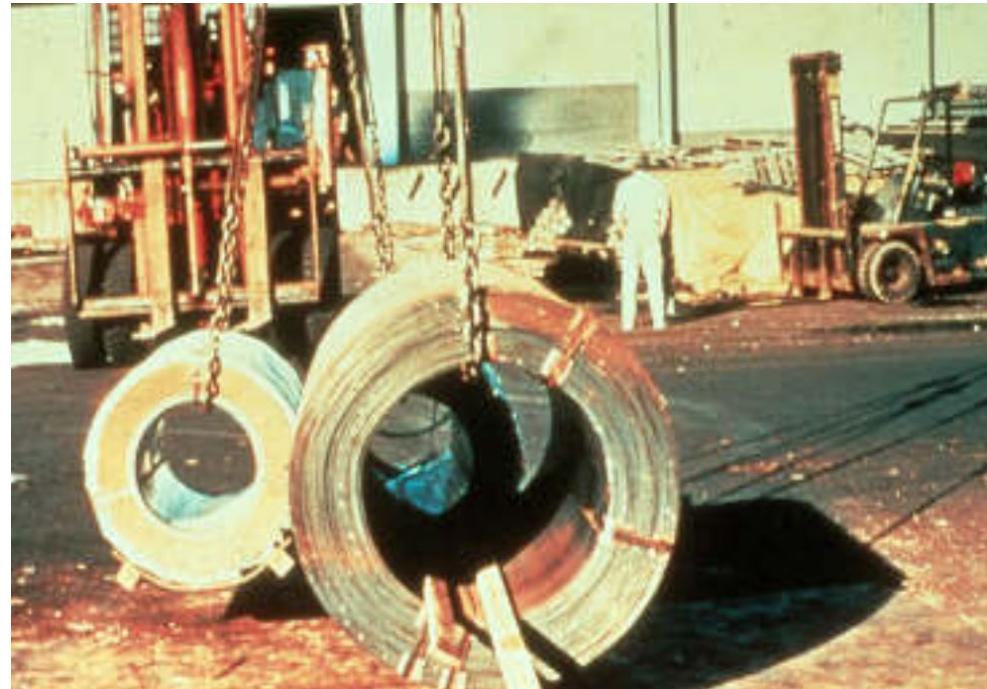
- Conditions causing slippery working and walking surfaces
 - Eliminated, to the extent possible



Slinging

1917.13(a)

- Drafts safely slung before being hoisted
- Dunnage must be removed



Slinging

1971.13(a)

- This draft is unstable and unsafe



Slinging

1917.13(b)

- Hoisted baled cargo with straps
 - Strong enough to support load
 - Two cargo hooks in separate straps



Slinging

1917.13(c)

- Unitized loads hoisted by bands and straps only:
 - Strapping suitable for hoisting
 - Strong enough to support weight



Slinging

1917.13(d)

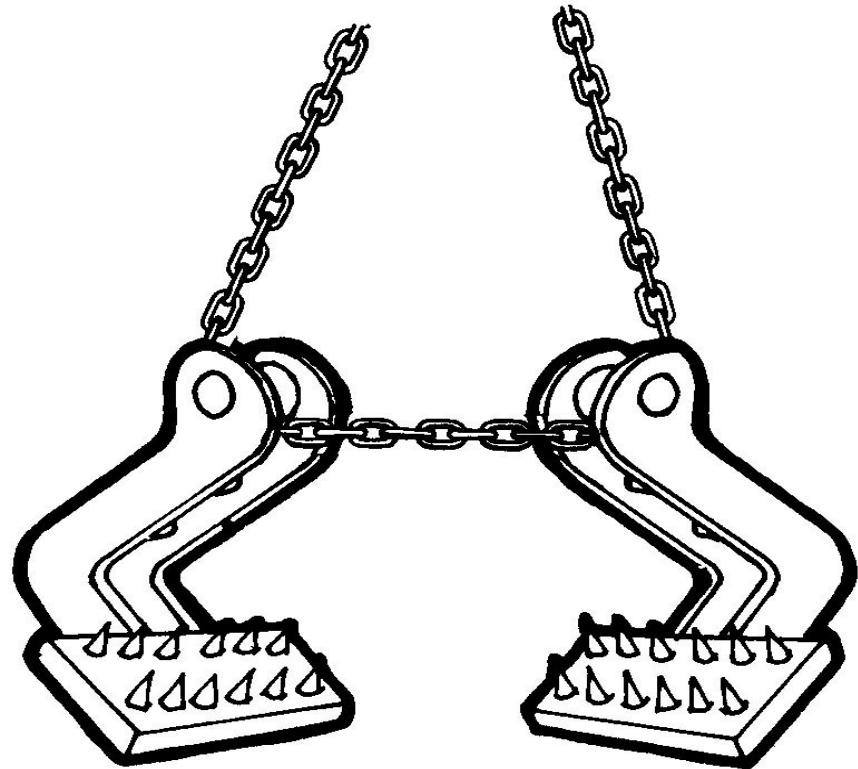
- Cargo having damaged or missing banding
 - Employ additional cargo handling gear



Slinging

1917.13(e)

- Case hooks only used with cases designed for their use



Slinging

1917.13(f)

- Tag lines used with loads requiring continuous manual guiding



Slinging

1917.13(g)

- Intermodal containers to be handled per 1917.71(f)



Slinging

1917.13(h)

- Employees stay clear of area beneath overhead drafts and descending lifting gear



Slinging

1917.13(i)

- Employees not allowed to ride hook or load.







3 10 '93





Stacking of Cargo and Pallets

1917.14

- Cargo, pallets, materials stored in tiers
 - Stacked to avoid sliding or collapse









Coopering

1917.15

- Repair and reconditioning of damaged packaging must not endanger employees





Line Handling

1917.16(a)

- Employees handling lines have safe access
- Cargo operations not obstruct mooring and unmooring



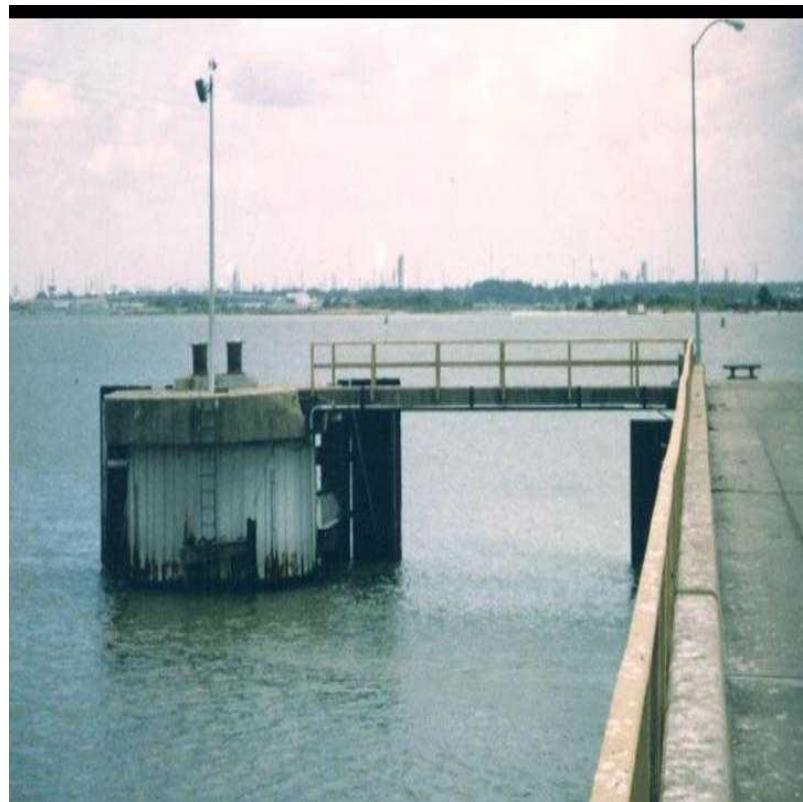


LLOYD CHIL
MANILA

Line Handling

1917.16(b)

- Where apron width over water is insufficient for safe walkway
 - Grab lines or rails shall be provided



Railroad Facilities

1917.17(a)

- Railcar floors must be visibly safe
 - For intended work activity, **and**
 - Equipment used



Railroad Facilities

1917.17(b)

- Alternate route established allowing employees to pass through railcar work areas
 - Where >10' exists between railcars



Railroad Facilities

1917.17(c)

- Employees not permitted to remain in railcars after work completed



Railroad Facilities

1917.17(d)(1)-(2)

- Railcars chocked or prevented from moving:
 - When dockboards are in place
 - While employees are working
 - » Within, on or under the railcars
 - » Near tracks at end of cars



Railroad Facilities

1917.17(d)(1)-(d)(2)

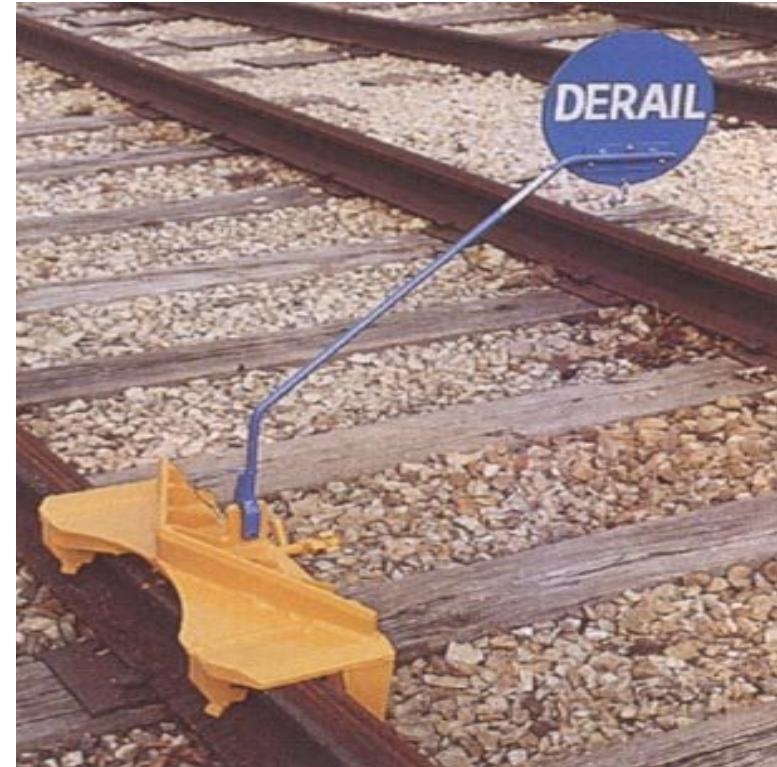
- Acceptable way to prevent movement is to set hand brake



Railroad Facilities

1917.17(e)

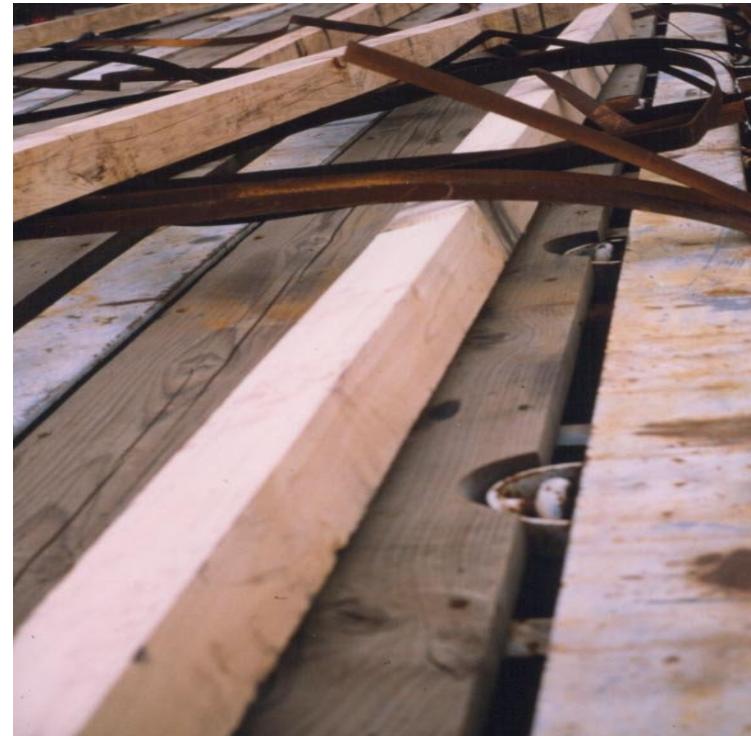
- Employees working in or around railcars
 - Protected from impact of moving cars



Railroad Facilities

1917.17(f)

- Before cars are moved:
 - Unsecured and overhanging stakes, wire straps, and banding
 - » Removed or placed so not to create hazards



Railroad Facilities

1917.17(g)

- Necessary controls taken during railcar movement
 - To safeguard personnel







Railroad Facilities

1917.17(h)

- Door opened slightly
- Check for shifting loads before being opened fully



Railroad Facilities

1917.17(i)

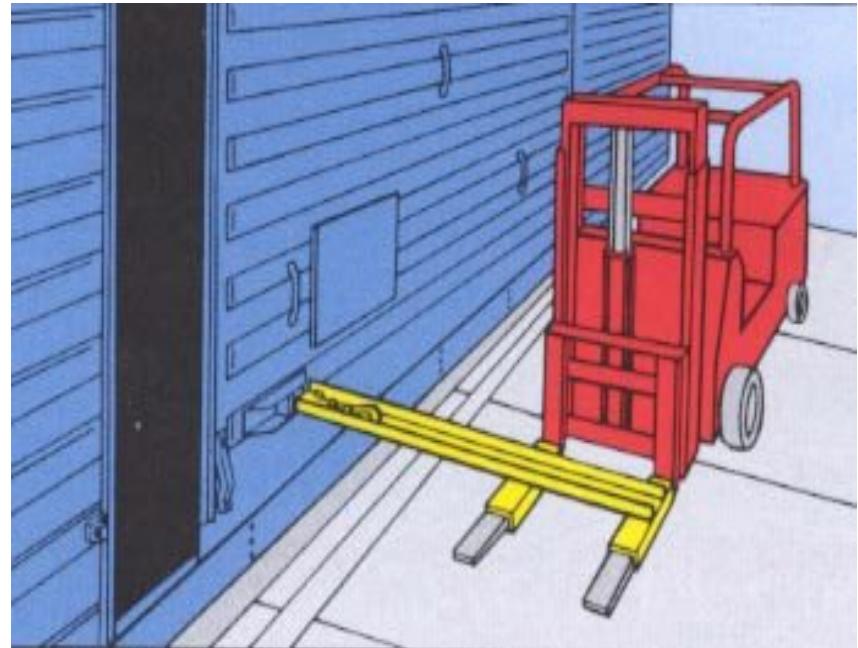
- When forklifts used to open doors
 - Equipped with attachments for that purpose



Railroad Facilities

1917.17(j)

- Railcar door openers or powered trucks equipped with door opening attachments
 - Used to open jammed doors



SECURE

HASP BEFORE
MOVING CAR

POL DOOR MUST
BE OPEN TO MOVE



FORK TRUCK PUSH POCKET



STANDARD CAR SEAL ONLY

RECALL NUMBER
97-482

Railroad Facilities

1917.17(j)

- This is not a safe way to open a jammed door.



Railroad Facilities

1917.17(k)

- Employees not work on or in cars
 - Where danger of being struck by cargo exists

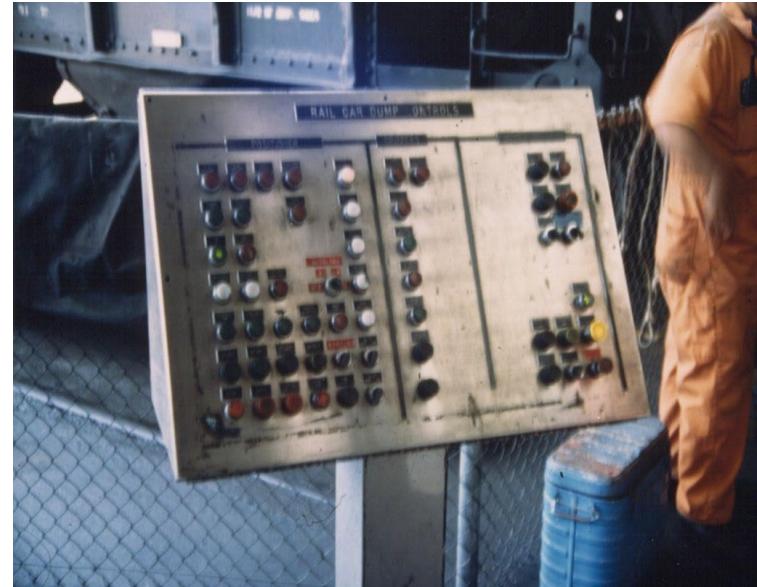




Railroad Facilities

1917.17(l)

- Operators of railcar dumps have unrestricted view of operations
- Emergency means of stopping movement



Railroad Facilities

1917.17(m)

- Recessed switches enclosed to provided level surface





Railroad Facilities

1917.17(n)

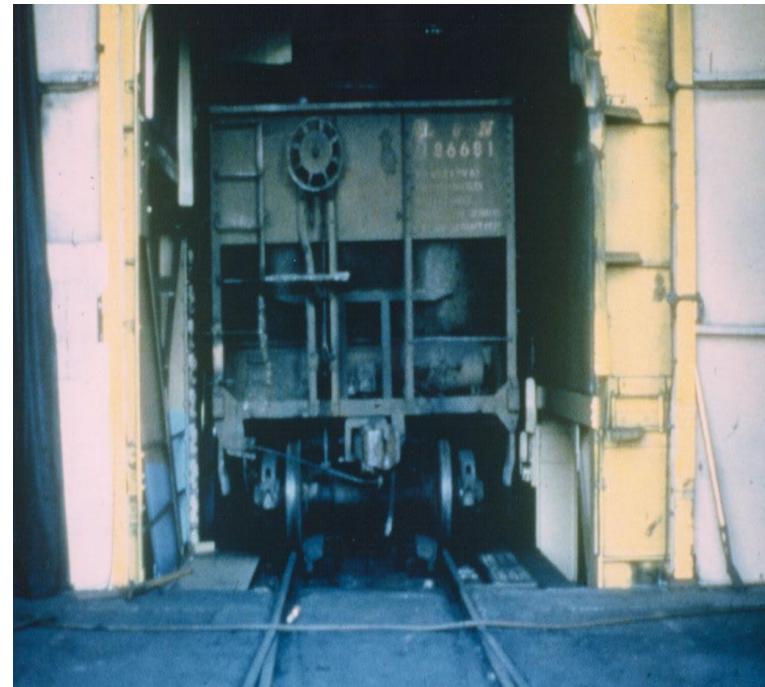
- Warning signs posted where vision restricted
 - Where doorways open onto tracks
 - At blind corners



Railroad Facilities

1917.17(o)

- Warning signs posted
 - Insufficient clearance for personnel exists between railcars and structures



Log Handling

1917.18(a)

- Bunks used to contain logs
 - Rounded corners and rounded structural parts to prevent sling damage



Log Handling

1917.18(b)

- Logs kept secured while being moved within terminal
- During unloading logs
 - Prevented from moving while binders being removed



Log Handling

1917.18(c)

- Hoist logs by at least two slings, **or**
- Other gear designed for safe hoisting



Log Handling

1917.18(d)

- Logs stowed on terminal
 - Not more than one tier high unless placed in bunks, **or**
 - Secured against movement



Log Handling

1917.18(e)

- Before logs slung for hoisting:
 - Supported to prevent spreading
 - Allow passage of slings beneath load
- When placed in bunks or retaining devices:
 - No log higher than stanchions or retaining members of device



Movement of Railcars and Barges

1917.19

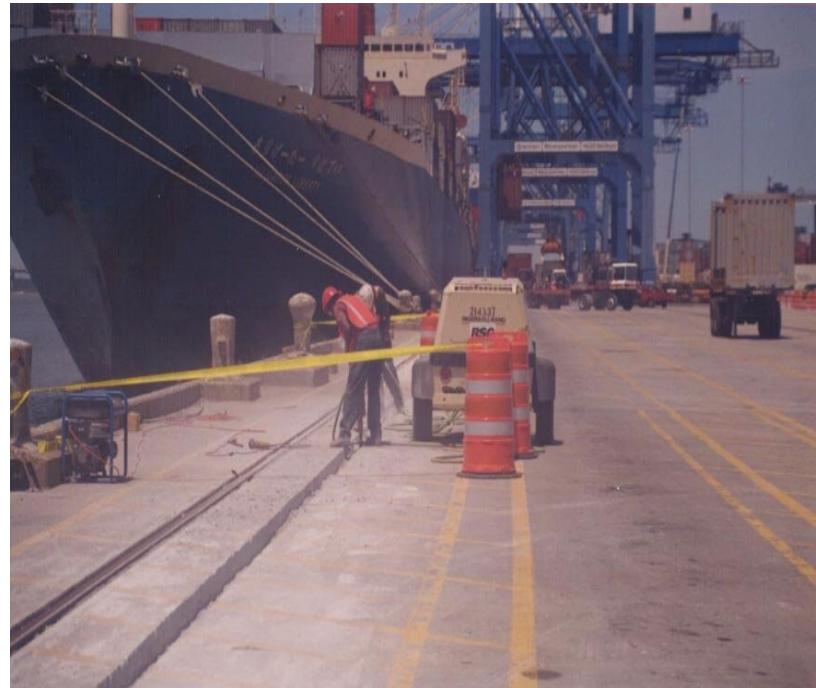
- Barges and railcars not moved by:
 - Running rigging of vessel cargo booms
 - Shore cranes, **or**
 - Equipment not suitable for purpose



Interference with Communications

1917.20

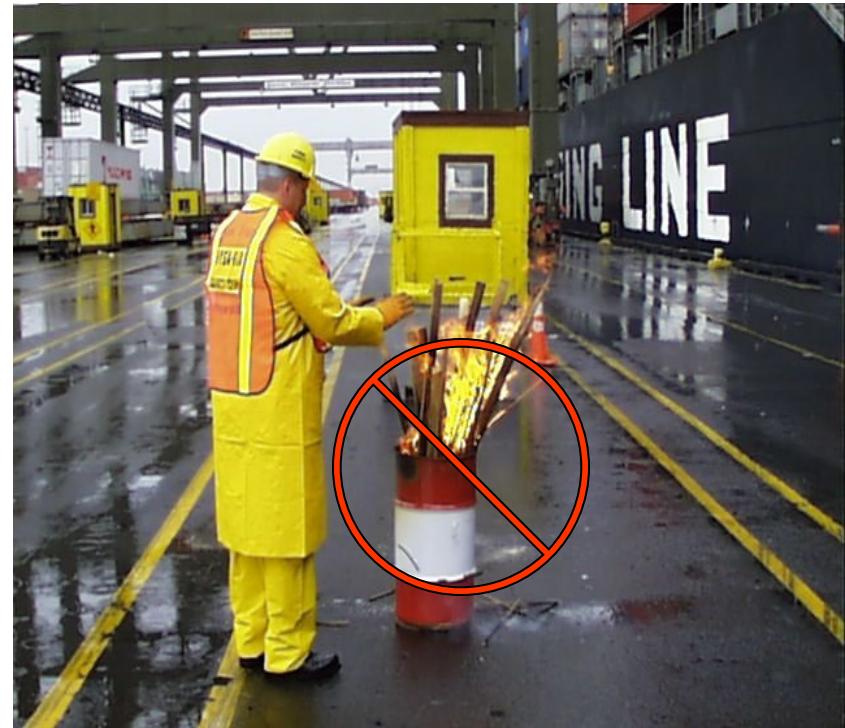
- No cargo handling operations when:
 - Noise-producing,
 - Maintenance,
 - Construction or repair work interferes with communications



Open Fires

1917.21

- Open fires and fires in drums or containers prohibited





FIREBOAT NO. 1

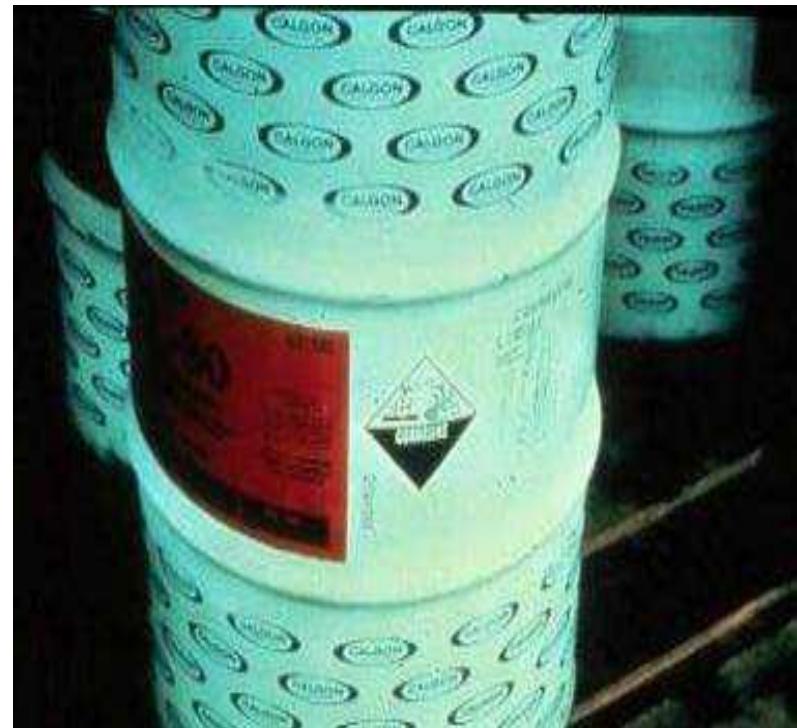
MAYOR THOMAS F. HANRICK JR.

MAYOR THOMAS F. HANRICK JR.

Hazardous Cargo

1917.22(a)

- Ascertain any hazardous cargo
- Inform employees nature of hazards



Hazardous Cargo

1917.22(b)

- Hazardous cargo properly slung



Hazardous Cargo

1917.22(c)

- Hazardous cargo leaking
 - Employees removed from affected area



Hazardous Atmosphere and Substances

1917.23(b)(1)-(b)(2)

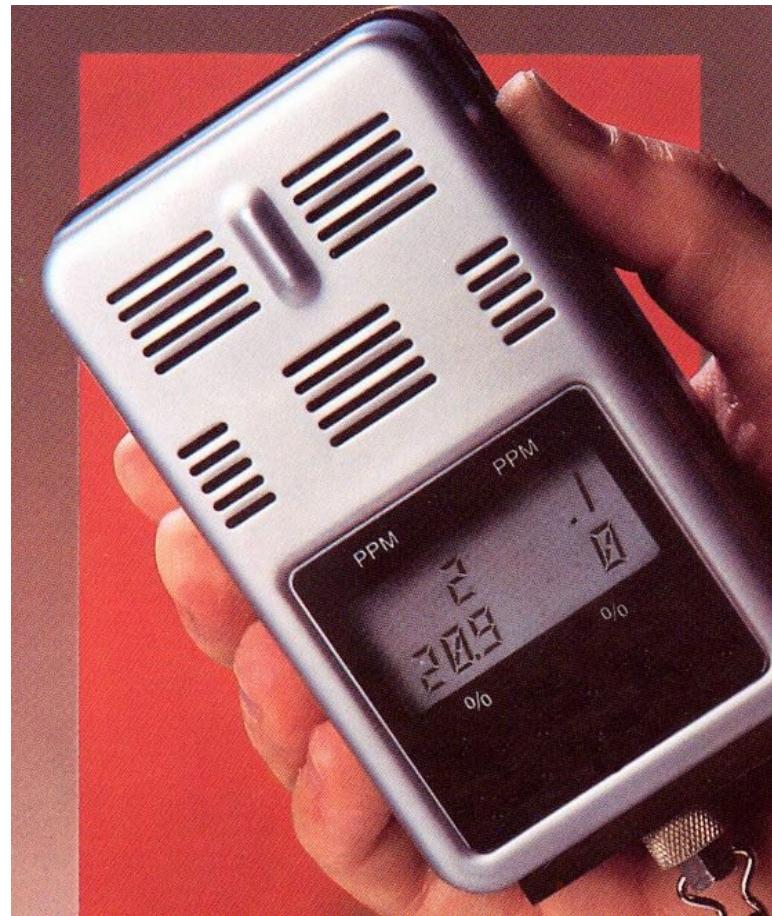
- Hazardous atmosphere
 - Designated person test atmosphere
- Tests maintained for at least 30 days



Carbon Monoxide

1917.24(a)

- Exposure limits – 50 ppm – 8 hour average area level
- Employees removed from enclosed space if ceiling over 100 ppm



Carbon Monoxide

1917.24(b)

- Testing required whenever necessary
 - Assure exposure level below average area level



Carbon Monoxide

1917.24(c)-(d)

- Testing by designated person
 - Using NIOSH certified instruments
- Test records maintained for 30 days
 - Date, time, location and results



Fumigants, Pesticides, Insecticides and Hazardous Preservatives

1917.25(a)

- Concentration is hazardous
 - Employees removed until test show it is safe

 Great Lakes Chemical Corporation MATERIAL SAFETY DATA SHEET

MSDS Number: 00055 Effective Date: 3/26/98
Product Name: Meth-O-Gas 100, Meth-O-Gas Q, Methyl Bromide (MUP) Page: 1 of 11

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|-----------------------------|--|
| Product Name: | Meth-O-Gas 100, Meth-O-Gas Q, Methyl Bromide (MUP) |
| Manufacturer: | Great Lakes Chemical Corporation |
| Address: | P.O. Box 2200 |
| City: | West Lafayette |
| State: | Indiana |
| Zip: | 47996-2200 |
| Emergency Telephone Number: | 1-800-949-5167 |
| Information | |
| Telephone Number: | 1-765-497-6100 |
| Chemtrec Phone: | 1-800-424-9300 |
| Effective Date: | 3/26/98 |
| MSDS Prepared By: | Regulatory Affairs Department/Great Lakes Chemical Corporation |
| Syonyms: | Methyl-O-Gas, Bromomethane |
| Product Use: | EPA Registered Pesticide |
| Chemical Name: | Methyl bromide |
| Chemical Family: | Alkyl bromide |

Additional Information
No information available

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT NAME | CAS NO. | % | EXPOSURE LIMITS |
|-----------------|---------|-------|--|
| Dimethyl ether | 115106 | -0.2 | Y (Hazardous) Not established (OSHA PEL TWA) Not established (OSHA PEL STEL) Not established (OSHA PEL CEIL) Not established (ACGIH TLV TWA) Not established (ACGIH TLV STEL) Not established (ACGIH TLV CEIL) |
| Methyl bromide | 74839 | >99.5 | Y (Hazardous) Not established (OSHA PEL TWA) Not established (OSHA PEL STEL) C20 ppm (OSHA PEL CEIL) 1 ppm (ACGIH TLV TWA) Not established (ACGIH TLV STEL) Not established (ACGIH TLV CEIL) |

Fumigants, Pesticides, Insecticides and Hazardous Preservatives

1917.25(d)

- Chemical only applied to cargos by designated persons



Fumigants, Pesticides, Insecticides and Hazardous Preservatives

1917.25(e)(1) –(2)

- Entry into hazardous atmospheres:
 - Designated person
 - PPE per Subpart E
 - Training in nature of hazard, precautions, use of PPE and emergency equipment
 - Warning signs posted at all access points



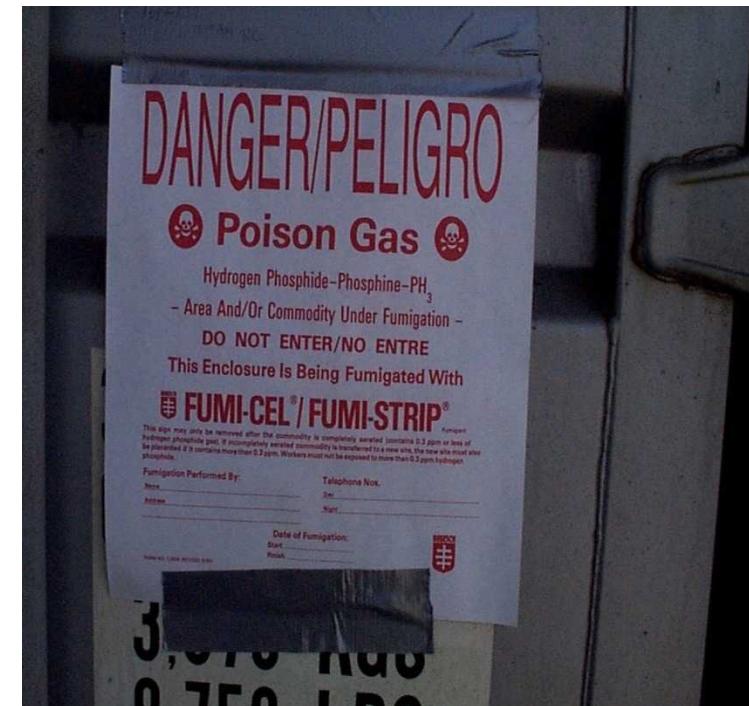
Space containing a hazardous atmosphere ???



Fumigants, Pesticides, Insecticides and Hazardous Preservatives

1917.25(f)

- Signs posted wherever hazardous atmospheres are present
 - Identify name of substance
 - Type of danger
 - Employee precautions
 - Emergency treatment



Fumigants, Pesticides, Insecticides and Hazardous Preservatives

1917.25(f)

- Containerized shipments of fumigated tobacco
 - Aeration period – 48 or 72 hours (depending on type of packaging)
- Employer have written warranty from fumigation facility





First Aid and Lifesaving Facilities

1917.26(a)

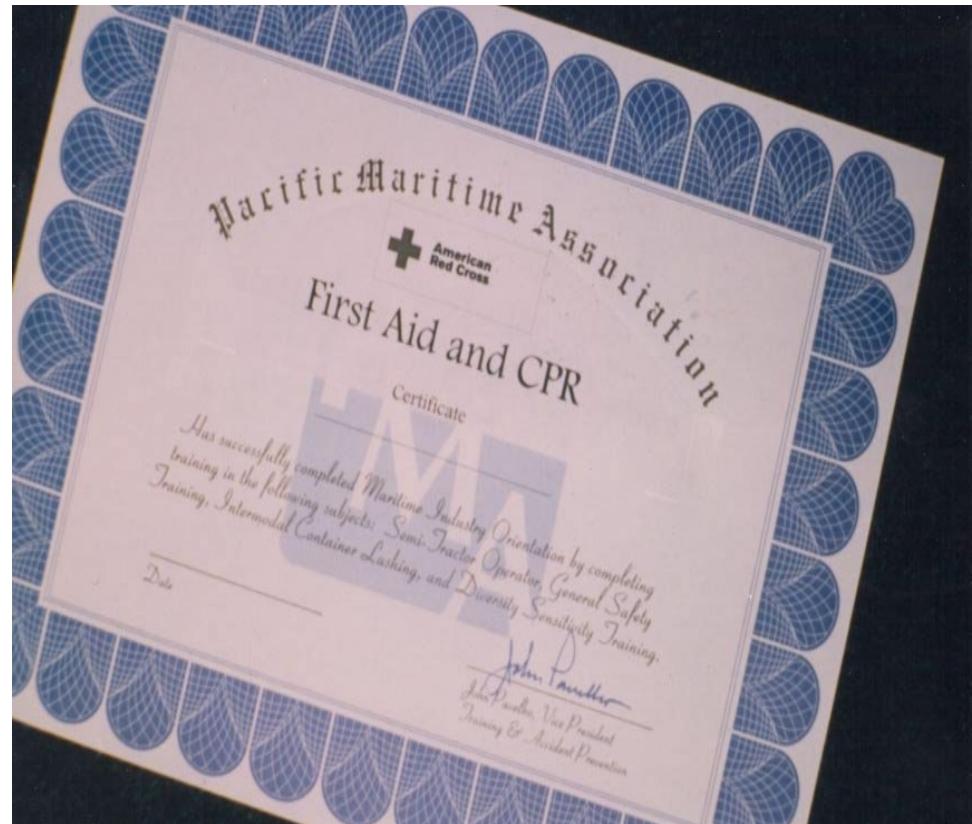
- All injuries must be reported to employer



First Aid and Lifesaving Facilities

1917.26(b)

- Certified first aid person on terminal during work operations



First Aid and Lifesaving Facilities

1917.26(c)

- Weatherproof, properly stocked kits available



First Aid and Lifesaving Facilities

1917.26(d)

- Stretchers with lifting bridles, blanket and patient restraints
 - Kept close to each vessel



First Aid and Lifesaving Facilities

1917.26(e)

- Telephone or other means for reporting medical emergencies
 - Readily available



First Aid and Lifesaving Facilities

1917.26(f)

- USCG approved 30" life ring with 90 feet of line attached
- A permanent or portable ladder
 - Giving access to water
 - Within 200 feet of work areas





Personnel

1917.27(a)

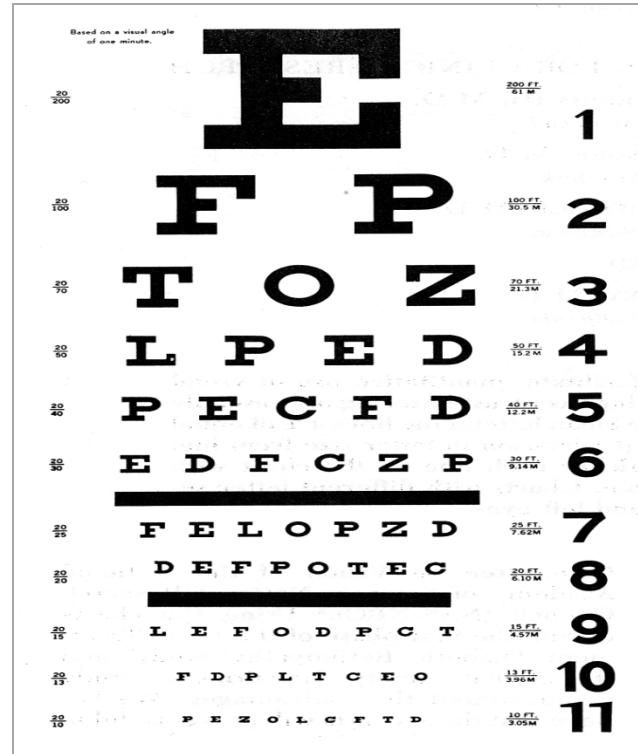
- Only trained and/or experienced personnel
 - Operate cranes and mobile equipment



Personnel

1917.27(a)

- Equipment operators have good eyesight and hearing
- Not subject to known ailments that would suddenly incapacitate them
 - See note to (a)(2).



Personnel

1917.27(b)

- Supervisors of more than 5 persons
 - Trained in accident prevention



Hazard Communication

1917.28

- Subpart Z, 1910.1200 applies by reference



Retention of DOT Markings, Placards and Labels

1917.29

- Hazmat markings kept on packages and containers
 - Until cleaned of residues and purged of vapors



Emergency Action Plans

1917.30(a)

- Emergency action plan in writing
- Elements:
 - Escape procedures and route assignments
 - Account for employees
 - Rescue and medical duties
 - Preferred method to report emergencies
 - Names and titles of persons to be contacted for further information of duties

XYZ TERMINAL
OPERATING
COMPANY

EMERGENCY
ACTION PLAN

REVISED 4/28/00

Emergency Action Plans

1917.30(a)(3)

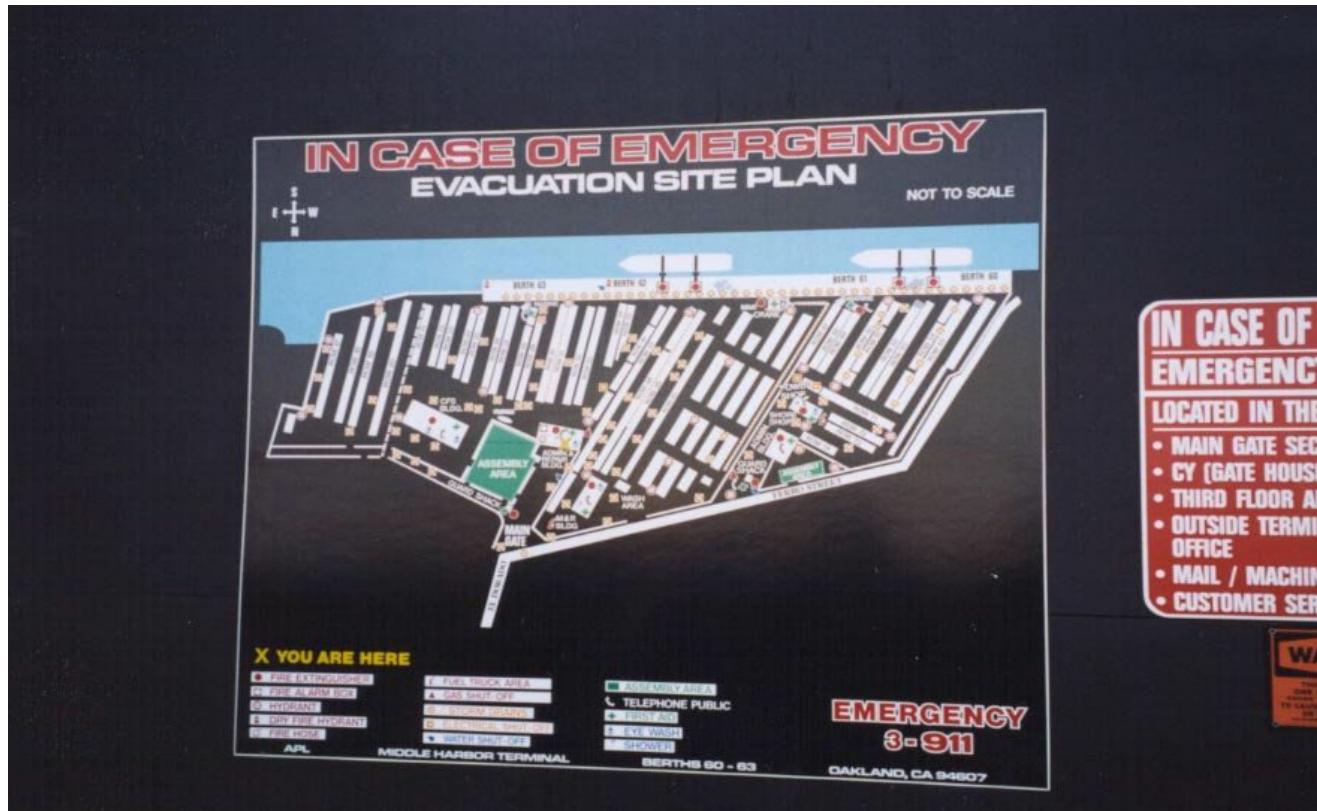
- Employer establish an employee alarm system
 - For warning and evacuation



Emergency Action Plans

1917.30(a)(4)

- Determine types of evacuation to be used in emergencies



Emergency Action Plans

1917.30(a)(5)

- Designated persons trained to assist in evacuation procedures
- Employees trained:
 - When plan developed
 - When actions or responsibilities change
 - When plan changes



Thank You For Attending!

Final Questions?

1-800-NC-LABOR
(1-800-625-2267)
www.nclabor.com



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