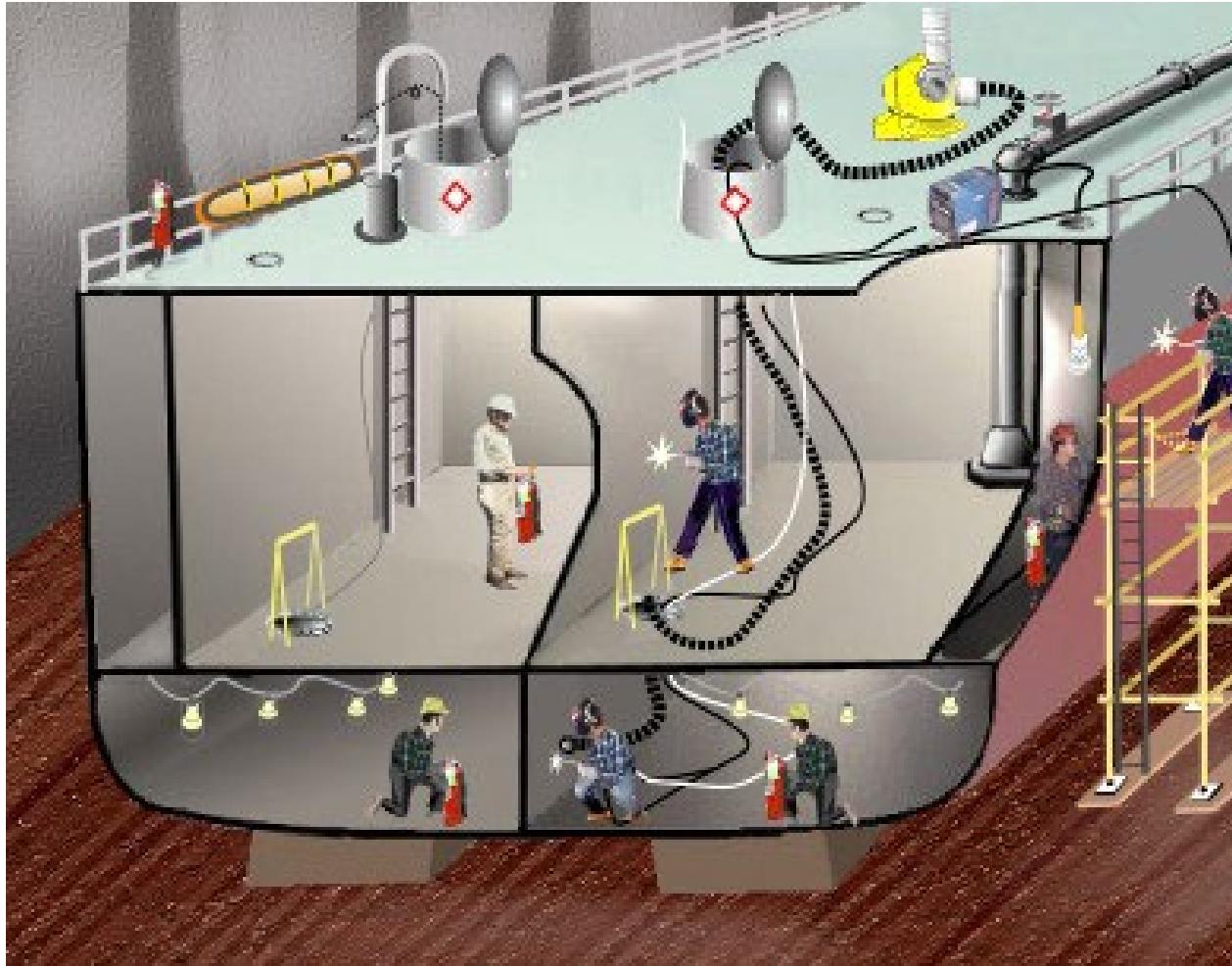


# Shipyard Employment

## Fire Protection in Shipyard Employment - Subpart P



# Fire Protection in Shipyard Employment

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29 CFR 1915

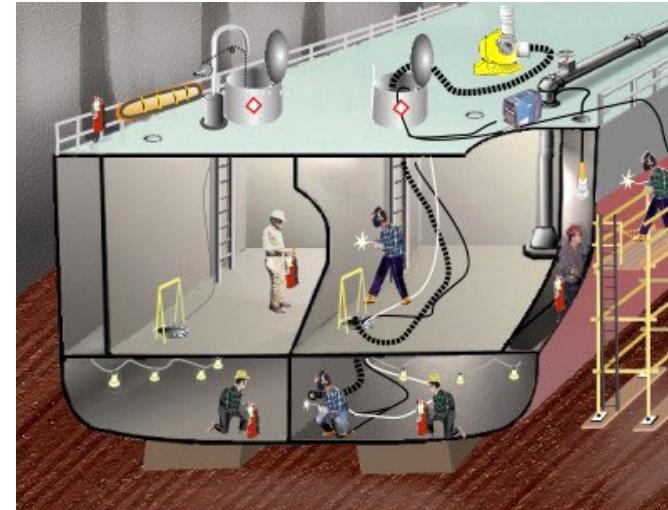
## ● Subpart P

- 1915.501 – General Provisions
- 1915.501 – Fire safety plan
- 1915.503 – Precautions for hot work
- 1915.504 – Fire watches
- 1915.505 – Fire response
- 1915.506 – Hazards of fixed extinguishing systems on board vessels and vessel sections

# Fire Protection in Shipyard Employment

29 CFR 1915

- 1915.507 – Land-side fire protection systems
- 1915.508 – Training
- 1915.509 – Definitions applicable to this subpart
- 1915 Appendix A – Model Fire Safety Plan (Non-Mandatory)



# General Provisions

1915.501(d)(1)

- Multi-employer worksite
  - Inform employers about fire safety plan
  - Responsibilities for fire protection assigned
  - Each host employer communicate information about fire-related hazards



# General Provisions

1915.501(d)(2)

- Contract employer responsibilities
  - Notify host employer about fire-related hazards
  - Advise host employer of previously unidentified fire-related hazards



# Fire Safety Plan

1915.502(a)

- Develop and implement written fire safety plan
  - Actions taken to ensure safety in event of fire



# Fire Safety Plan

1915.502(b)

- Identify significant fire hazards
- Alarm procedures
- Procedures for evacuation
- Procedures to account for all employees



# Precautions for Hot Work

1915.503(a)(1)

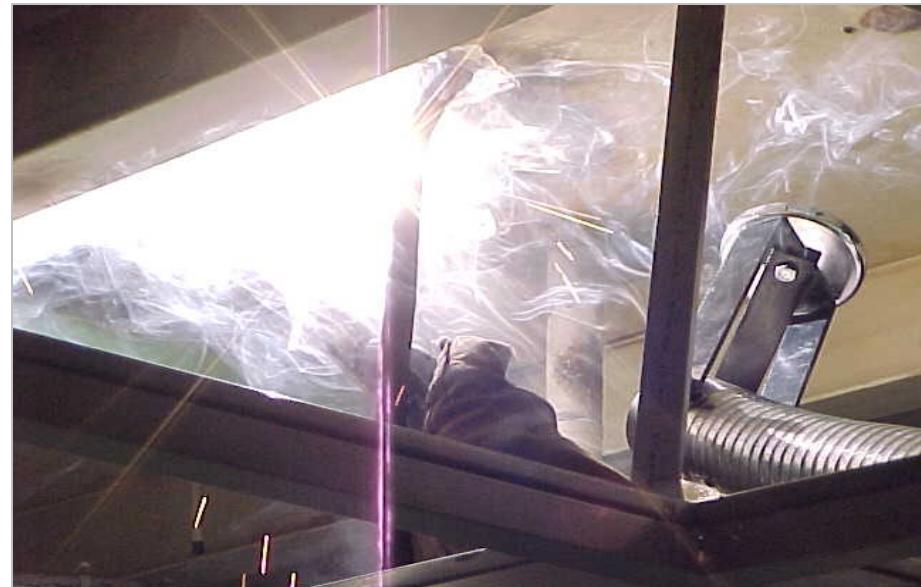
- Designated areas for hot work
- Free of fire hazards



# Precautions for Hot Work

1915.503(a)(2)

- Hot work in non-designated area
  - Visually inspect area
  - Free of fire hazards



# Precautions for Hot Work

1915.503(b)(1)

- Maintain fire hazard-free conditions



# Precautions for Hot Work

1915.503(b)(2)(i)-(ii)

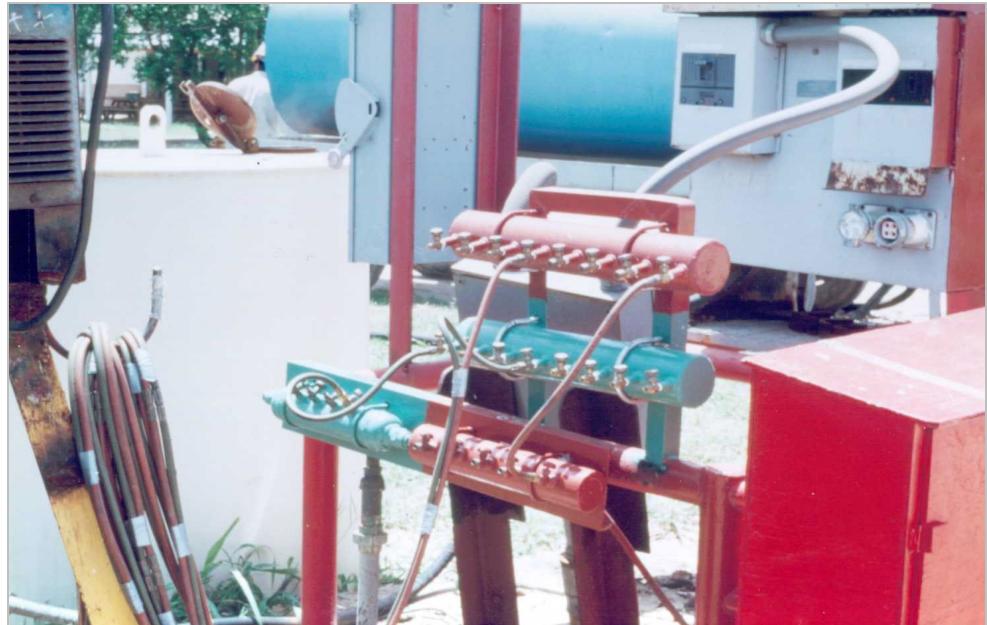
- No unattended fuel gas and oxygen hose lines or torches in confined spaces
- No unattended fuel gas and oxygen hose lines or torches in enclosed spaces
  - More than 15 minutes



# Precautions for Hot Work

1915.503(b)(2)(iii)

- Fuel gas and oxygen hose lines disconnected at supply manifold
  - At end of each shift



# Precautions for Hot Work

1915.503(b)(2)(iv)

- Disconnected fuel gas and oxygen hose lines
  - Rolled back to supply manifold or open air
    - » To disconnect torch



# Fire Watches

1915.504(a)

- Written fire watch policy
  - Training given
  - Duties performed
  - Equipment given
  - PPE available and worn



# Fire Watches

1915.504(b)

- Posting fire watches

- Slag, weld splatter, or sparks pass through opening and cause fire
- Combustible materials closer than 35 feet
- Hot work near insulation, combustible coatings, etc.
- Close to unprotected combustible pipe or cable runs



# Fire Watches

1915.504(c)(1)-(2)

- Assigning employees to fire watch duty
  - No other duties while hot work in progress
- Clear view and immediate access to all areas included in fire watch



# Fire Response

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1915.505(a)

- Decide type of response provided
- Create, maintain, and update written policy
  - Describe internal and outside response organizations used
  - Evacuation procedures



# Fire Response

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1915.505(b)(1)

- Internal fire response
  - Structure of fire response organization
  - Number of trained employees
  - Fire response functions
  - Frequency of training



# Fire Response

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1915.505(b)(2)

- Outside fire response
  - Types of incidents expected to respond
  - Liaisons between employer and outside organizations
  - Plan for fire response functions



# Fire Response

1915.505(b)(3)

- Combination internal and outside fire response
  - Basic organizational structure
  - Number combined trained fire responders
  - Frequency of joint training



# Fire Response

1915.505(b)(4)

- Employee evacuation
  - Emergency escape procedures
  - Account for employees
  - Reporting fires and other emergencies



# Fire Response

1915.505(b)(5)

- Rescue and emergency response
  - Description of emergency rescue procedures
  - Names of employees assigned to perform rescue



# Fire Response

1915.505(c)(1)

- Medical requirements for fire response employees
  - Receive medical exam
  - Required to wear respirators – meet 1915.154
  - Annual medical exam
  - Medical records maintain in accordance with 1910.1020



# Fire Response

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1915.505(e)(1)(i)

- Supply fire response employees with appropriate PPE and equipment at no cost



# Fire Response

1915.505(f)(1)

- Equipment maintenance – personal protective equipment
  - Inspect and maintain PPE
- Keep fire response equipment in state of readiness



# Fixed Extinguishing Systems on Board Vessels

1915.506(b)(1)–(2)

- Physically isolate systems or other positive means
  - Prevent systems discharge
  - Train to recognize system discharge and evacuation alarms



# Fixed Extinguishing Systems on Board Vessels

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1915.506(g)(1)-(3)

- Authorized employees allowed to activate system
- Authorized employees trained to operate and activate systems
- Employees evacuated before system activated



# Land-side Fire Protection Systems

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1915.507(b)

- Select, install, inspect, maintain and test portable fire extinguishers



# Land-side Fire Protection Systems

1915.507(c)(1)

- Fixed extinguishing system component or extinguishing agent
  - Approved by OSHA NRTL
  - Use on specific hazards expected to control or extinguish



# Training

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1915.508(b)(1)-(2)

- All employees trained
  - Emergency alarm signals
  - System discharge alarms
  - Evacuation alarms
  - Primary and secondary evacuation routes



# Training

1915.508(e)(1)

- Each fire watch trained by instructor
  - Adequate fire watch knowledge and experience



# Training

1915.508(f)

- Records kept demonstrating employees trained
  - Records include; employee' name, trainer's name, type of training, date(s) of training



# Thank You For Attending!

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## Final Questions?

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