



# Module 8:

## Storage and Pre-planning Considerations

# Objective



Upon the completion of this module, participants should be able to develop plans to fight or contain fires at tank farms & bulk storage facilities.



# Introduction



- Agency responsibility
  - Establish pre-plans, drills, & walk-throughs on regular basis
  - Establish & maintain good relations & cooperation with facility operators & staff
  - Pre-planning should identify:
    - Foam supplies
    - Special equipment
    - Apparatus
    - Mutual aid & contract services
- **Best defense is a pro-active approach and prevention!**

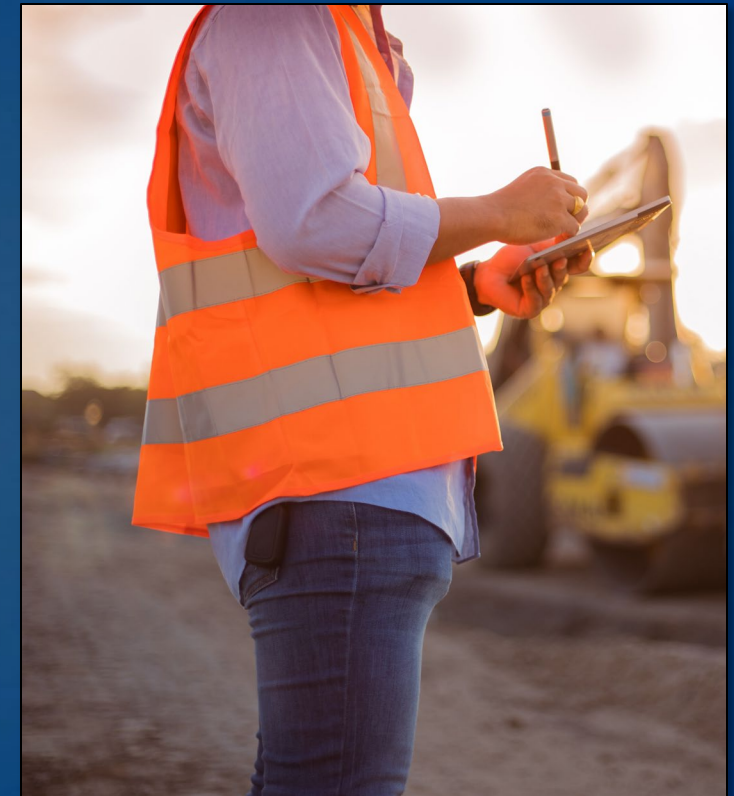


# Bulk Storage Fire Operations



## Considerations:

- Pre-plans with predetermined response plans should be developed for emergency incidents
- Fire foam flow rates should be established before incident occurs & reviewed regularly
- Storage tanks containing ethanol-blended fuels should be identified & known by agency personnel in advance



# Bulk Storage Fire Operations



## Considerations:

- Connection locations & required pressures & flows identified on tanks provided with pre-piped foam systems
- Fires in storage tanks where no fixed systems are available/ usable or in cases where fixed systems rendered inoperable may not be extinguishable with non-fixed appliances



# Pre-planning



- Steps involved in the pre-planning process include:
  - Information gathering
  - Information analysis
  - Information distribution
- Again, consider consortium approach for bulk AR-AFFF storage and availability
- Ensure adequate foam resource management plan and foam stock rotation



# Summary



- Better positioned to respond if prepared in advance
- Incident plan in place & maintain good relationships with agencies that can offer support in time of crisis
- Drills/ walk-throughs essential & should be conducted on regular basis
- Sometimes all that can safely be done is contain incident & let fire run course
  - Knowing when to let this happen is an important component of safety

# Activity 8.1:

## Ethanol Emergency Procedures



- Purpose:
  - To allow participants to utilize all the information discussed in the course to determine the appropriate procedures for fire & non-fire ethanol emergencies



# Activity 8.2:

## Ethanol Incident Procedures



- Purpose:
  - To allow participants to show comprehension of the firefighting foam capabilities and inabilities to combat polar solvent fire emergencies