

# **§192.615**

## **Emergency Plans**



# Emergency Assessment Tools

Natural Gas



Liquids



# Emergency Assessment Tools

## HVL's or Breakout Tanks



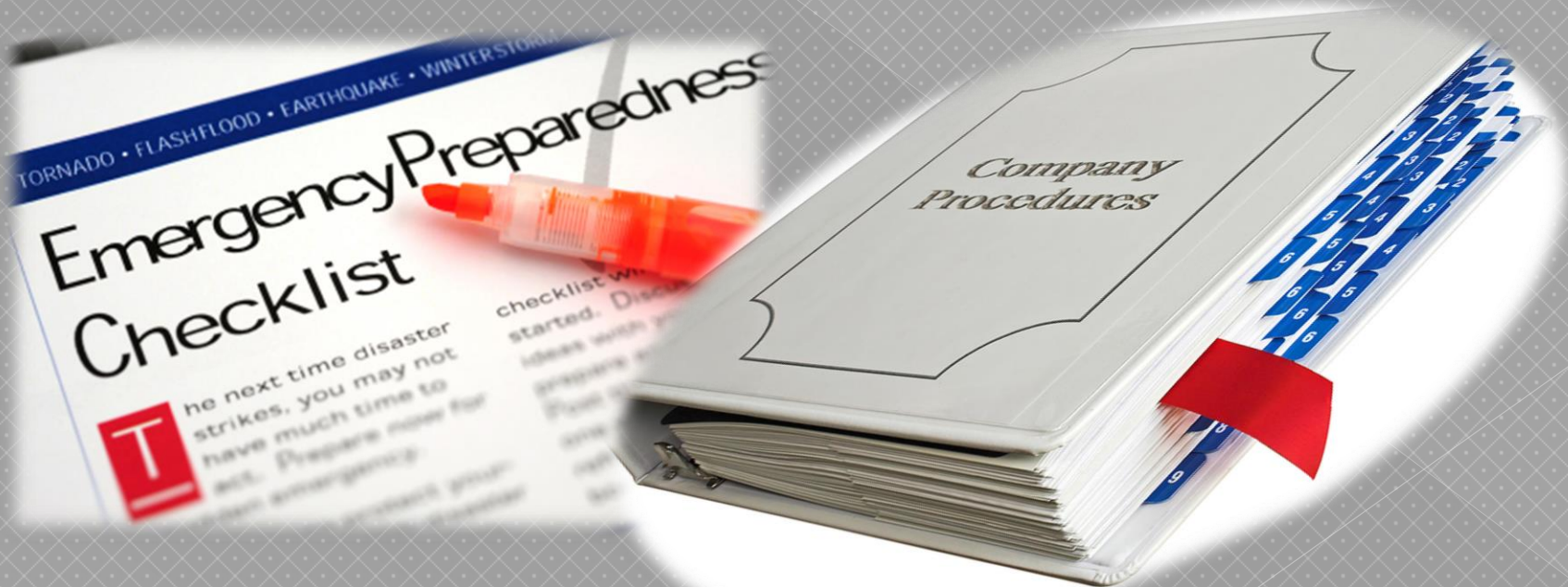
## **§192.605 O&M Manual**

Manual required by paragraph (a) must include procedures for the following to provide safety when an emergency condition occurs



# §192.615 Emergency Plans

- §192.615 (a) Requirements for written procedures to minimize the hazard resulting from a gas pipeline emergency.





# Pemex Oil/Mexichem

- ◉ 24 – 30 fatalities
- ◉ At least 46 injured
- ◉ One of several fires at the state run facilities
- ◉ Most likely caused by thieves tapping the line to steal petrol



# §192.615 (a)(1) Emergency Plans

- Procedures for receiving, identifying, and classifying notices of events which require an immediate response



# §192.615 (a)(1) Emergency Plans

## ● Receiving Notices:

- 24 hour telephone number
  - Toll free or collect call
  - Has Number changed ?
- Company during the day, or police or answering service at night?
- How is it answered?



# §192.615 (a)(1) Emergency Plans

## Identifying Notices:

- List of questions to help identify the type of emergency event
- Contact information
- Location of event
- Training to determine the type of event, is it an emergency event, are people in danger, is it on your system?

# §192.615 (a)(1) Emergency Plans

- ❖ Instructions for Callers:
  - ❖ Safety instructions for someone reporting a natural gas pipeline event
  - ❖ Do the instructions provide information for the safety of people first
- ❖ Person receiving information trained to understand and make decisions



# §192.615 (a)(1) Emergency Plans

- Classifying Notices:
  - How do you classify events?
    - Priority 1 = Immediate response
    - Priority 2 = Next available person
    - Priority 3 = Someone within 2 hours
  - Person receiving trained to understand and make decisions

## §192.615 (a)(2) Emergency Plans

- Establishing and maintaining adequate means of communication with appropriate fire, police, and other public officials.
  - Current list of emergency contact numbers, and update the list at regular intervals
    - Field and call center
    - ADB-2012-09 – Communication during Emergency Situations
  - Alternate communication plans

## §192.615 (a)(2) Emergency Plans

- Establishing and maintaining adequate means of communication with appropriate fire, police, and other public officials
  - Additional telephone trunk lines, switchboard facilities, or personnel, in case of telephone line damage and to handle increased call volume
  - Back-up power supply for the operations center in case of power failure
- ADB-2010-08 and ADB-2012-09



# Communications Issues





# §192.615 (a)(3) Emergency Plans

- Prompt and effective response to a notice of each type of emergency, including the following:
  - Gas detected inside or near a building (Gas)
  - Accidental release of hazardous liquid or carbon dioxide from pipeline facility (Liquid)
  - Operational failure causing hazardous conditions (Liquid)
  - Fire/explosion near or directly involving a pipeline facility
  - Natural disaster



## §192.615 (a)(4) Emergency Plans

- The availability of personnel, equipment, tools, and materials, as needed at the scene of an emergency
  - Current personnel contact lists, numbers, and responsibilities
  - Current lists of equipment, tools, and materials, needed to respond to possible types of emergencies
  - Current contractor contact list, capabilities, and equipment, available to respond to an emergency

# §192.615 (a)(4) Emergency Plans

- The availability of personnel, equipment, tools, and materials, as needed at the scene of an emergency
- Responsibility for overall coordination of personnel and execution of the emergency response plan
- Incident command system (ICS)



# ICS

## THE SYSTEM CONSISTS OF PROCEDURES FOR:

- ❖ Controlling facilities
- ❖ Controlling personnel
- ❖ Coordinating response agencies
- ❖ Providing for common terminology
- ❖ Effectively managing communications
- ❖ Responding to nearly any kind of disaster
- ❖ Managing equipment and “hard” resources



# ICS Structure

- ❖ Provides for:
  - Single jurisdiction/single agency involvement
  - Single jurisdiction with multi-agency involvement
  - Multi-jurisdiction/multi-agency involvement
- ❖ Readily adaptable to new technology
- ❖ Common terminology, procedures and standards
- ❖ Applicability and acceptability throughout country
- ❖ Expandable in a logical manner from a single point
- ❖ Adaptability to wide range of response requirements

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# §192.615 (a)(5) Emergency Plans

- Actions directed toward protecting people first and then property.
  - > Determine the scope of the emergency.
  - > Evacuate and prevent access to premises that are or may be affected.
  - > Prevent accidental ignition.
  - > Report to the appropriate supervisor on the situation, and request further instructions or assistance if needed.

# §192.615 (a)(6) Emergency Plans

- Emergency shutdown and pressure reduction in any section of the operator's pipeline system necessary to minimize hazards to life or property
  - Plans to shut down or reduce pressure should consider:
    - Responsibility for shutdown
    - Identification of critical valves, access to and operability of valves
    - Other facilities required for shutdown



# §192.615 (a)(6) Emergency Plans

- Emergency shutdown and pressure reduction in any section of the operator's pipeline system necessary to minimize hazards to life or property
  - Plans to shut down or reduce pressure should consider: (continued)
    - Provisions for confirming that the shutdown or pressure reduction was effective
    - Coordination with control room

# §192.615 (a)(7) Emergency Plans

- Making safe any actual or potential hazard to life or property
  - Eliminating potential sources of ignition
  - Determining the full extent of the hazardous area, including areas of gas migration and secondary or auxiliary damage
  - Monitoring for a change in the extent of the hazardous area or other conditions

# §192.615 (a)(8) Emergency Plans

- Notifying appropriate fire, police, and other public officials of gas pipeline emergencies and coordinating with them both planned responses and actual responses during an emergency.
  - Contacting and coordinating with fire, police, and other public officials, the actions to be taken
  - Maintaining ongoing communication to ensure that information pertinent to emergency response is shared in a timely manner.
  - Notifying response personnel when the emergency has been made safe.
  - ADB-2012-09

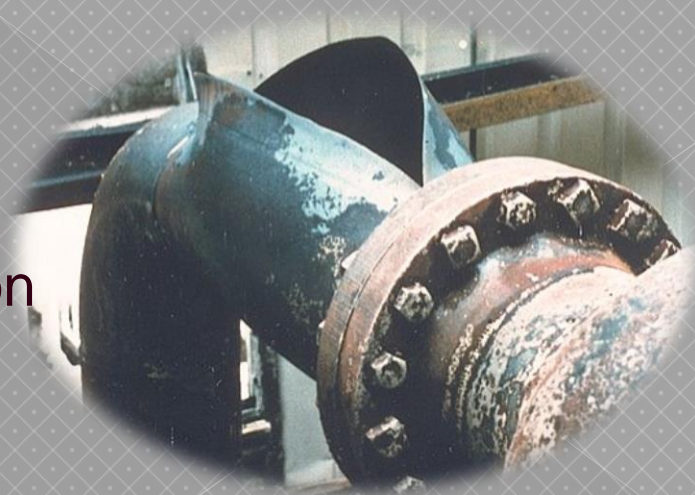
# §192.615 (a)(9) Emergency Plans

- ◉ Safely restoring any service outage
  - Re-survey of the area involved in an incident to locate any additional damages
  - Communication with control room
  - Purging and re-pressuring of pipeline facilities
  - Monitoring of facilities after service is restored



# §192.615 (a)(10) Emergency Plans

- Beginning action under §192.617, if applicable, as soon after the end of the emergency as possible.
  - Procedures for initiating investigation of failures in accordance with §192.617
    - Log of significant events and of actions taken
    - Preservation of failed facilities or equipment for analysis.
    - Obtaining and submitting information required by regulatory bodies





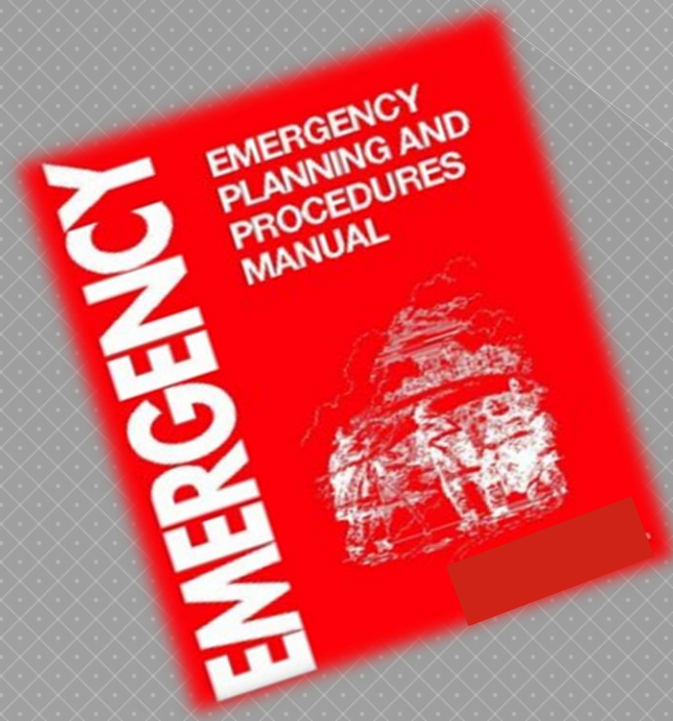
# §192.615 (a)(11) Emergency Plans

- Actions required to be taken by a controller during an emergency in accordance with § 192.631



# §192.615 (b) Emergency Plans

- Each operator shall:
  - > Furnish supervisors who are responsible for emergency action a copy of that **portion** of the latest edition of the emergency procedures established under paragraph (a) of this section as necessary for compliance with those procedures



# §192.615 (b) Emergency Plans

- Each operator shall:
  - Train the appropriate operating personnel to assure that they are knowledgeable of the emergency procedures and verify that the training is effective.
  - Review employee activities to determine whether the procedures were effectively followed in each emergency.

# §192.615 (c) Emergency Plans

- Each operator shall establish and maintain liaison with appropriate fire, police, and other public officials to:
  - Learn the responsibility and resources of each government organization that may respond to a gas pipeline emergency
  - Acquaint the officials with your abilities in responding to a gas pipeline emergency

# §192.615 (c) Emergency Plans

- Each operator shall establish and maintain liaison with appropriate fire, police, and other public officials to: (continued)
  - Identify the types of gas pipeline emergencies which may require notification
  - Plan how you and the public officials can engage in mutual assistance to minimize hazards to life or property



# What is liaison?

- ◉ Coordination: the exchange of information or the planning of joint efforts by two or more people or groups, often of military personnel
- ◉ A communication for establishing and maintaining mutual understanding and cooperation

# Liaison Issues

- Generic message to attend meeting doesn't catch attention
  - > Use term “**PIPELINE EMERGENCY**”
  - > Use titles rather than names for invitations
  - > Multiple invitations for large departments
- Credit for training
  - > Qualify for HAZWOPER or emergency training
  - > Make credits easy

# Liaison Meetings

- Prefer face to face meetings rather than public meetings
  - > At their facility
  - > Prefer local operations people
  - > Contact all shifts
  - > Volunteer departments – weekends rather than weekday

# Emergency Plans

- ADB – 10 – 08 – Emergency Plans
- Don't want full plan
- Quick reference on:
  - > what to do and
  - > contact lists
- Portable – multiple copies and available in their vehicles

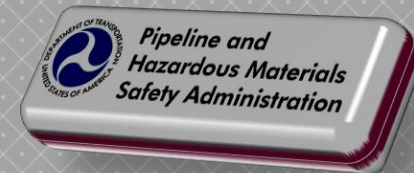
# Don't forget

- Emergency Plan activities under §192.615 may also be credited to §192.616 – Public Awareness
  - > Drills, planning meetings
- Document, document, and document some more





# Contact Information



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