

§195.402(e) Emergencies

§195.402 Procedural manual for operations, maintenance, and emergencies.

- ⦿ Each operator shall prepare and follow for each pipeline system, a manual of written procedures for conducting normal operations and maintenance activities and handling abnormal operators and emergencies.
- ⦿ Reviewed at intervals not exceeding 15 months, but at least once each calendar year,

§195.402 Procedural manual for operations, maintenance, and emergencies.

- ◉ Prepared before initial operations of a pipeline system
- ◉ Changes made as necessary to insure that the manual is effective
- ◉ Appropriate parts shall be kept at locations where activities are conducted

§195.402(e) Emergencies

- Manual must include procedures for the following to provide safety when an emergency condition occurs



§195.402(e)(1) Emergencies

- Receiving, identifying, and classifying notices of events which need immediate response by the operator or notice to fire, police, or other appropriate public officials



§195.402(e)(1) Emergencies

- Communicating this information to appropriate operator personnel for corrective action



§195.402(e)(1) Emergencies

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



§195.402(e)(1) Emergencies

◎ 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?

§195.402(e)(1) Emergencies

⦿ Instructions for Callers:

- Safety instructions for someone reporting a pipeline event
- Do the instructions provide information for the safety of people first

§195.402(e)(1) Emergencies

- ◉ Classifying Notices:
 - How do you classify events?
 - Person receiving trained to understand consequences and make decisions
 - Notifications spelled out
 - Internal notifications
 - External notifications (ADB 2012-09)

§195.402(e)(2) Emergencies

- Prompt and effective response to notice of each type emergency, including
 - fire or explosion occurring near or directly involving a pipeline facility,
 - accidental release from a pipeline facility,
 - operational failure causing a hazardous condition
 - natural disaster affecting pipeline facilities



§195.402(e)(3) Emergencies

- Having personnel, equipment, instruments, tools, and materials available 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

§195.402(e)(4) Emergencies

- Taking necessary action to minimize the volume released from any section of a pipeline in the event of a failure
 - › Emergency shutdown
 - › Pressure reduction
 - › Other actions

§195.402(e)(4) Emergencies

- 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
 - Provisions for confirming that the shutdown or pressure reduction was effective
 - Coordination with control room

§195.402(e)(5) Emergencies

- Control of released hazardous liquid or carbon dioxide at an accident scene to minimize the hazards, including possible intentional ignition in the cases of flammable highly volatile liquid.

§195.402(e)(6) Emergencies

- Minimization of public exposure to injury and probability of accidental ignition by
 - > assisting with evacuation of residents
 - > assisting with halting traffic on roads and railroads in the affected area
 - > taking other appropriate action



§195.402(e) Emergencies

- ⦿ 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.

§195.402(e) Emergencies

- Actions directed toward protecting people first and then property.

H	Hazard
E	Extent
L	Life
P	Property
S	Safe

§195.402(e) Emergencies

- 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 migration and secondary or auxiliary damage
 - Monitoring for a change in the extent of the hazardous area or other conditions

§195.402(e)(7) Emergencies

- Notifying fire, police, and other appropriate public officials of hazardous liquid or carbon dioxide pipeline emergencies and coordinating with them preplanned and actual responses during an emergency

§195.402(e)(7) Emergencies

- Responsibility for overall coordination of personnel and execution of the emergency response plan
- Incident command system (ICS)



§195.402(e)(7) Emergencies

- 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

§195.402(e)(8) Emergencies

- In the case of failure of a pipeline transporting a highly volatile liquid, use of appropriate instruments to assess the extent and coverage of the vapor cloud and determine the hazardous areas.

§195.402(e)(9) Emergencies

- Providing for a post accident review of employee activities to determine whether the procedures were effective in each emergency and taking corrective action where deficiencies are found.
 - > As appropriate, review of and changes to
 - Emergency Plan
 - O&M Plans
 - Training and Qualification
 - CRM procedures

IMPLEMENT CHANGES!

§195.402(e)(10) Emergencies

- ⦿ Actions required to be taken by a controller during an emergency in accordance with § 195.446.



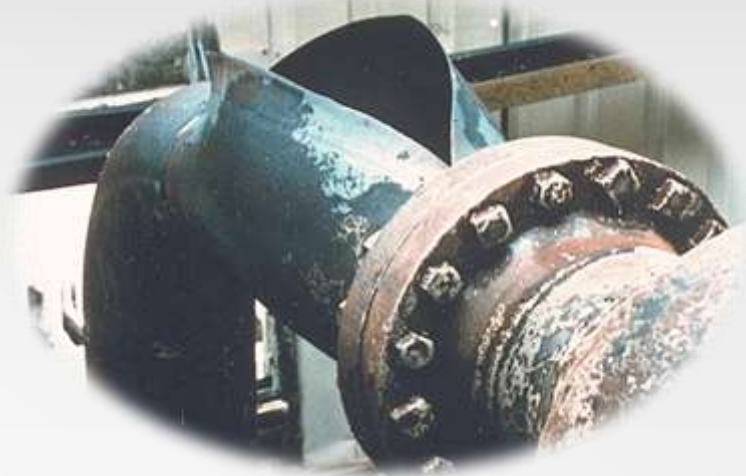
Other considerations

- ◉ Safely restoring any pipeline outage
 - Re-survey of the area involved to locate any additional damages or unusual conditions
 - Communication with control room
 - Re-pressuring of pipeline facilities
 - Monitoring of facilities after service is restored



Other Considerations

- ⦿ Beginning investigation actions under §195.402(c) as soon after the end of the emergency as possible.



Other Considerations

- ◎ References to other manuals included in Emergency plan if used on site
 - > Safety Manuals
 - > O&M Procedures
 - > OPA Oil Spill Response Plan
- ◎ PHMSA and other notification requirements

§195.403 Emergency Response Training

- Each operator shall establish and conduct a continuing training program to instruct emergency response personnel:
 - 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.

§195.403 Emergency Response Training

- Each operator shall establish and conduct a continuing training program to instruct emergency response personnel:
 - Carry out procedures established under 195.402
 - Know characteristics and hazards of products transported
 - Recognize conditions, predict consequences, and take appropriate action

§195.403 Emergency Response Training

- Each operator shall establish and conduct a continuing training program to instruct emergency response personnel:
 - Take steps to control releases, and minimize potential for fire, explosion, toxicity, or environmental damage
 - Learn about fires, and appropriate use of fire extinguishers or other fire control equipment in a simulated emergency condition if feasible

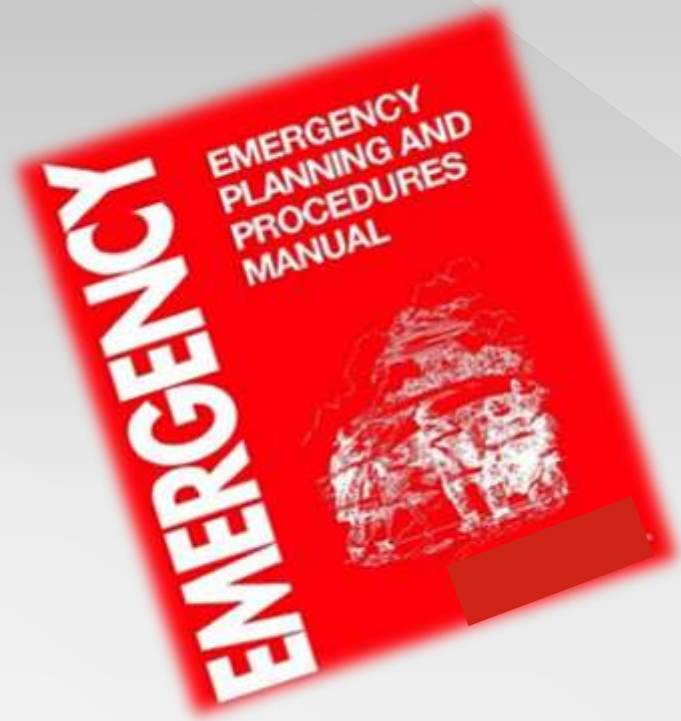
§195.403 Emergency Response Training

- At the intervals not exceeding 15 months, but at least once each calendar year
 - > Review with personnel their performance in meeting objectives of the training
 - > Make appropriate changes to training program to ensure it is effective



§195.403 Emergency Response Training

- Each operator shall require and verify supervisors maintain a thorough knowledge of that portion of the emergency response procedures established under 195.402 for which they are responsible to ensure compliance



§195.408 Communications

- Each operator must have a communication system to provide for the transmission of information needed for the safe operation of its pipeline system.
- Communication system must include:
 - > Monitoring operations
 - > Receiving and sending notices
 - > Conducting communication between control center and scene of emergencies or abnormal operations
 - > Provide communication with fire, police, and public officials during emergencies, including natural disasters

§195.408 Communications

- Additional telephone trunk lines, switchboard facilities, or personnel, in case of telephone line damage and to handle increased call volume during emergencies
- Back-up power supply for the operations center in case of power failure
- ADB-2010-08 and ADB-2012-09

§195.402(c)(12) Liaison

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



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

- Activities under 195.402(c)(12) may also be credited to 195.440 – Public Awareness
 - > Drills, planning meetings
- Document, document, and document some more