



**Pipeline and
Hazardous Materials
Safety Administration**

§192.615

Emergency Plans

§192.603 GENERAL PROVISIONS

- ✘ Pipelines must be operated in accordance with this subpart.
- ✘ Each operator shall keep records necessary to administer the procedures established under §192.605.
- ✘ The Administrator of PHMSA or the State Agency that has a current certification under the pipeline safety laws, (49 U.S.C. 60101 et seq.) may require the operator to amend its plans and procedures as necessary to provide a reasonable level of safety.

§192.605 PROCEDURE MANUAL

- ✘ Each operator shall prepare and follow for each pipeline, a manual of written procedures for conducting operations and maintenance activities and for emergency response. **For transmission lines**, the manual must also include procedures for handling abnormal operations.
- ✘ **For transmission lines**, the manual required by paragraph (a) of this section must include procedures to provide safety when operating design limits have been exceeded.
- ✘ **Surveillance, emergency response, and accident investigation procedures, required by §§192.613(a), 192.615, and 192.617 must be included in the manual.**

§192.605 (C) ABNORMAL OPERATIONS

What is an abnormal operating condition?

- × An abnormal condition is a non-emergency condition on a gas transmission facility that occurs when the operating design limits have been exceeded due to a pressure, flow rate, or temperature change outside the limits of normal conditions.
- × When an abnormal condition occurs, it does not pose an immediate threat to life or property, but could if not promptly corrected.

§192.605 (C) ABNORMAL OPERATIONS

- ✘ For transmission lines, the manual required by paragraph (a) of this section must include procedures for the following to provide safety when operating design limits have been exceeded:
 - Responding to, investigating, and correcting the cause of:
 - ✘ Unintended closure of valves or shutdowns;
 - ✘ Increase or decrease in pressure or flow rate outside normal operating limits.
 - ✘ Loss of communications.
 - ✘ Operation of any safety device.
 - ✘ Any other foreseeable malfunction of a component, deviation from normal operation, or personnel error which may result in a hazard to persons or property.

§192.605 (C) ABNORMAL OPERATIONS

- × Checking variations from normal operation after abnormal operation has ended at sufficient critical locations in the system to determine continued integrity and safe operation.
- × Notifying responsible personnel when notice of an abnormal operation is received.

§192.605 (C) ABNORMAL OPERATIONS

- × Periodically review the response of personnel to determine the effectiveness of the procedures controlling abnormal operation and taking corrective action where deficiencies are found.
- × The requirements of this paragraph do not apply to natural gas distribution operators that are operating transmission lines in connections with their distribution system.

§192.615 EMERGENCY PLANS

- ✘ §192.615 (a) Each operator shall establish written procedures to minimize the hazard resulting from a gas pipeline emergency.





Dec 11, 2012 – Sissonville, WV



Sept 18, 2012 - Pemex - Reynosa, Mexico

§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
 - 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

§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

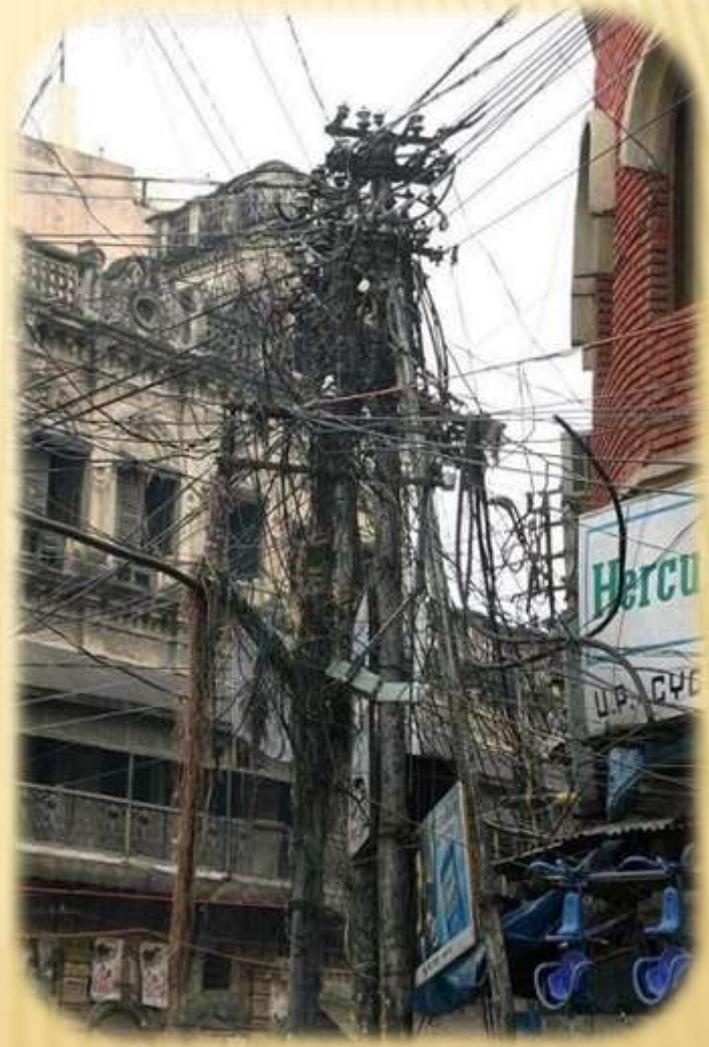
§192.615 (A)(2) EMERGENCY PLANS

- ✘ 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
 - ✘ Fire located near or directly involving a pipeline facility



§192.615 (A)(3) EMERGENCY PLANS

- ✘ Prompt and effective response to a notice of each type of emergency, including the following:



- Explosion occurring near or directly involving a pipeline facility

§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)



§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)(5) EMERGENCY PLANS

- ✘ Actions directed toward protecting people first and then property.

H	Hazard
E	Extent
L	Life
P	Property
S	Safe

§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:
 - 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



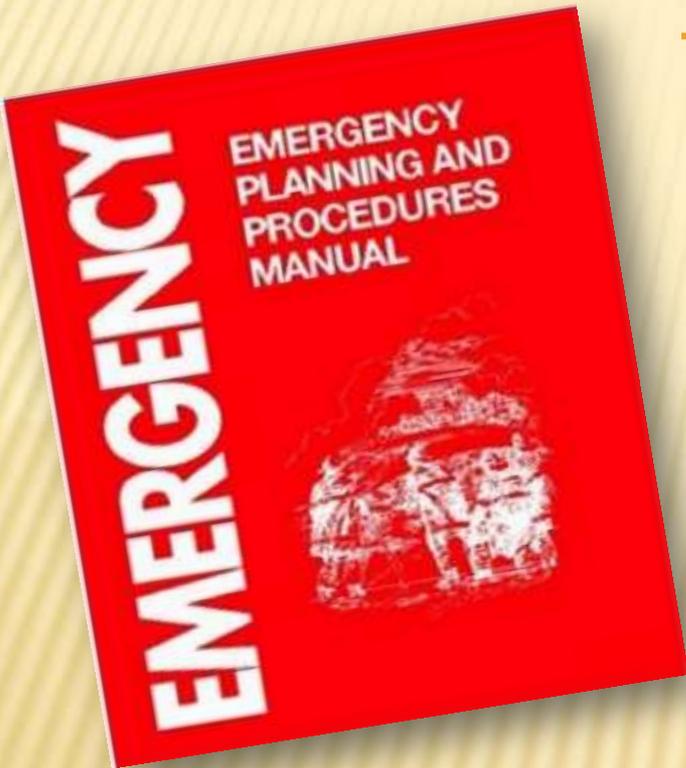
§192.615 (A)(11) EMERGENCY PLANS

- 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:
 - ✘ 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

- ✘ 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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