



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

170 IAC 5-3

- Inclusion in Rules Hazardous Liquid Operators
- Abnormal Operations – 5-3-0.5(b), Definitions
- 5 Year Records Retention – 5-3-1
- 5-3-2 Paragraph 5
- Maps – 5-3-2 Paragraph 10
- Leak Survey Buried Customer Lines – 5-3-2(12)(b-3)
- Reporting Requirements – 5-3-4
- Leaks Reported and Repaired – 5-3-2(12)(c)
- Reportable Leaks – 49 CFR 191



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

170 IAC 5-3

Abnormal Operations – 5-3-0.5(b)

Identical to definition found in 49 CFR 192.605(c):

"Abnormal operation" means any of the following:

- (A) An unintended closure of valves or shutdowns.
- (B) An increase or decrease in pressure or flow rate outside normal operating limits.
- (C) A loss of communications.
- (D) The operation of any safety device.
- (E) Any other foreseeable malfunction of a component, deviation from normal operation, or personnel error, that may result in a hazard to persons or property.



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

170 IAC 5-3

Abnormal Operations – 5-3-0.5(b), cont'd

- Can be covered in O&M procedures or OQ plan, or a combination;
cross reference
- Purpose is to cause you to think about operation and have ready plans for such conditions – *be proactive*
- AOC's can occur in a distribution system just as in transmission
- Safety device: any device that changes, controls or communicates an operating condition
- 49 CFR 192 continues on with instructions to verify integrity of system after an AOC, communicating to the proper personnel, and evaluating the effectiveness of the procedures



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

170 IAC 5-3

5-3-2(5): Test Requirements–General (49 CFR 192.503)

Paragraph (a) shall read:

(a) No person may operate a new segment of pipeline, or return to service a segment of pipeline that has been relocated, replaced, or has been abandoned previously, until–

(Insert remainder of 192.503)

- (1) It has been tested in accordance with this subpart and §192.619 to substantiate the maximum allowable operating pressure; and
- (2) Each potentially hazardous leak has been located and eliminated



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Maps

5-3-2(10):

Each operator shall maintain a system of records of its physical plant. These shall include records and maps of its active physical plant in use, and be in such form as to facilitate the operation and maintenance of the plant in a safe manner. The records shall be reviewed, with documentation, and updated, with documentation, when an addition, deletion, or change of the system occurs', ' each calendar year at intervals not exceeding fifteen (15) months.



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Maps, cont'd

5-3-2(10):

Included on the maps shall be:

- (1) main;
- (2) sizes;
- (3) materials;
- (4) pressure ranges; and
- (5) location of:
 - (A) mains emergency valves;
 - (B) regulator stations;
 - (C) rectifiers; and
 - (D) critical bonds



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Leak Survey Buried Customer Lines – 5-3-2(12)(b-3)

- “the term ‘customer-owned service’ shall mean buried metallic gas carrying steel piping that is between the outlet of the meter and the entry of the building wall of a residential dwelling”
- Exceptions:
 - (1) Farm taps.
 - (2) Services directly off mains that have an operating pressure of greater than sixty (60) psig.
 - (3) Diversions to structures other than the residential dwelling located on the premises.
 - (4) Services with meter settings adjacent to the structure being served.
- Once every five years not to exceed 63 months



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Reports 5-3-4

- Incidents > \$50,000 – this is the only change
- Interruption of Service, or Outages
 - (A) entire system;
 - (B) affecting a major division of its system;
 - (C) affecting one hundred (100) or more customers at once; or
 - (D) when the operator deems the event to be significant.
- Safety Related Conditions
 - Report to IURC as well as PHMSA
 - 30 Day Updates



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Reports 5-3-4, cont'd

'Major' Projects

- Transmission
- Distribution main of 'significant footage', including BS or CI replacement projects of any length
- Purchase Point
- Distribution Center designed to serve 1,000 or more customers
- Hazardous liquid or carbon dioxide facility
- Significant service replacement project of twelve city blocks or 250 customers
- Annual reporting, but we ask that you give us notice when such a project becomes a definite 'go'



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Leaks Reported/Repaired–5-3- 2(12)(c)

All leaks reported, regardless of the origin of the reports, shall be recorded on suitable report forms. These report forms should provide space for all pertinent information. Each leak reported shall be accounted for, and actions taken in response to leaks shall be documented and filed in a systematic manner.



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Leaks Reported/Repaired–5-3- 2(12)(c-1)

All leaks reported shall be investigated promptly and classified in accordance with procedures outlined in the operator's operations and maintenance plan. The procedures shall include acceptable response times and shall ensure that gas leakage that is hazardous to life or property shall receive immediate attention for repairs.



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Leaks Reported/Repaired–5-3- 2(12)(c-2)

Leak indications where repairs are not completed shall be rechecked on subsequent surveys, depending on the operator's classification and in accordance with the operator's procedures.



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Reportable Leaks

Federal Annual Report Instructions:

<http://www.phmsa.dot.gov/pipeline/library/forms/>

- A leak is defined as an unintentional escape of gas from the pipeline. A non-hazardous release that can be **eliminated by lubrication, adjustment, or tightening, is not a leak.**
- Review leak classifications: Corrosion, Natural Forces, Excavation, Other Outside Force Damage, Materials and Welds, Equipment and Operations, Other
- Other: leak resulting from any other cause, such as exceeding the service life, not attributable to the above causes.



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Master Meter Operators

Reporting Requirements: 5-3-4(e)(3)

Each master meter operator as defined in 49 CFR 191.3 shall file with the division, not later than March 1 of each year, a report that shall include the following:

- (A) The dates of completion for previous year of the:
 - (i) leak survey;
 - (ii) cp survey; and
 - (iii) valve inspection.
- (B) The name of the person who completed the inspections on behalf of the master meter operator.



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Master Meter Operators

Reporting Requirements: 5-3-4(e)(3)

- (C) The number of unrepaired leak reports on January 1 of the preceding year.
- (D) The number of leak reports received during the preceding year.
- (E) The number of leaks repaired during the preceding year; and
- (F) The number of unrepaired leak reports at the end of the preceding year.



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Master Meter Operators

Reporting Requirements: 5-3-4(e)(3)

(G) Current information for the individual responsible for the gas system including the following:

- (i) Name.
- (ii) Title.
- (iii) Address.
- (iv) Phone number.
- (v) E-mail address.

The information required in this subdivision shall be provided to the division on a form available on the division's website at

<http://www.in.gov/iurc/2335.htm> .



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

IC 8-1-26

Damage to Underground Facilities Law

- Members of Advisory Committee have been named – still attempting to schedule first meeting
- Working with Indiana811 to develop a database for use by IURC, operators, and other “interested parties”
 - a) Excavators are to report damages to IN811
 - b) False emergency locates, non-members are an issue
- To date, we have nearly 80 damage reports to process



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Public Awareness Programs

- 4 year program evaluation should be completed – June 20th
- Operators will now have a benchmark with which to compare future evaluations
- Don't forget annual evaluation – Are you following your program?
- *Take ownership of your programs*
- "Living, breathing" document – follow, verify, evaluate, and improve; no different from O&M and Emergency procedures manual(s)



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Incident Reports

- File electronically – Advisory Bulletin ADP-10-01
- "...forms are to be used for all incidents/accidents occurring on or after January 1, 2010."
- <http://pipelineonlinereporting.phmsa.dot.gov/> , or "old" system
- Fire First incidents: "Damage from secondary ignition need not be reported unless the damage to facilities subject to Part 191 exceeds \$50,000. Secondary ignition is a gas fire where the origin is unrelated to the gas facilities, such as electrical fires, arson, etc."
- "Facilities" : operator's facilities only



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Annual Reports

- IURC initiated a method of online filing via a PDF form and email
- Signatures on 'hard copies': "AUTHORIZED SIGNATURE may be the preparer, an officer, or other person whom the operator has designated to review and sign reports. Please include the direct phone number and email address. If submitting via the Online Data Entry System your Operator ID and PIN take the place of the Authorized Signature."
- Director of Pipeline Safety will act as designee to review and sign reports



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Annual Reports

- Changes for March 1, 2011 report (covering 2010 calendar year)
- Brought to you by DIMP
192.1007(g) *Report results.*

Report, on an annual basis, the four measures listed in paragraphs (e)(1)(i) through (e)(1)(iv) of this section, as part of the annual report required by § 191.11. An operator also must report the four measures to the state pipeline safety authority if a state exercises jurisdiction over the operator's pipeline.

Required performance measures → → → → →



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Annual Reports

- Changes for 2011 report (covering 2010 calendar year)
- DIMP
 - 192.1007 (e)(1) -
 - (i) Number of hazardous leaks either eliminated or repaired as required by § 192.703(c) of this subchapter (or total number of leaks if all leaks are repaired when found), categorized by cause;
 - (ii) Number of excavation damages;
 - (iii) Number of excavation tickets (receipt of information by the underground facility operator from the notification center);
 - (iv) Total number of leaks either eliminated or repaired, categorized by cause;



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Annual Reports

- Changes for 2011 report (covering 2010 calendar year)
- DIMP

192.1007 (e)(1) - (ii) Number of excavation damages;

"...any impact that results in the need to repair or replace an underground facility due to a weakening, or the partial or complete destruction, of the facility, including, but not limited to, the protective coating, lateral support, cathodic protection or the housing for the line device or facility."

Number of EFV's in system at year end – single family residences.



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Annual Reports

- Changes for 2012 report (covering 2011 calendar year)
- DIMP
- Mechanical fittings (compression couplings) failures – *must begin tracking January 2011*
 - i. regardless of the material composition of the fitting
 - ii. bodies of mechanical fittings or failures in the joints between the fitting and the pipe
- Report due March 15, 2012



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

State-wide Welding Procedures

Status

- Not dead yet
- Performance goal to have procedures in place, if not tested
- SMAW procedures are available for review



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Corrosion

- Visual Inspections are very important; we want to see completed reports
- Atmospheric corrosion – check your procedures; conduct and document that you are surveying for atmospheric corrosion
- Casings – electrical isolation from carrier pipe



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Various Items

- Horizontal Drilling Procedures
- Regulators, stations under control of interstate suppliers
- HCA's, PIR's and Identified Sites
- Advisory Bulletins



Indiana Utility Regulatory Commission Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Various Items

Horizontal Drilling Procedures

- Have your own procedures
- Have also, procedures to protect your systems from others

Regulators, stations under control of interstate suppliers

- Have had discussions with PHMSA Central Region
- Need a list of those stations that fall under this dilemma



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Various Items

HCA's, PIR's and Identified Sites –49 CFR 192.903

- New question on inspection documents – 'Verify that operator is striving to identify new HCA's'
- Done on patrols and surveys, continuing surveillance, class location studies
- Requires knowledge on the part of employees gathering the data
- Effective communication plan should new locations be discovered
- What are your procedures to identify new HCA's?



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Various Items

HCA's, PIR's and Identified Sites

FAQ 117:

Question: How often must an operator update its building density survey and list of identified sites to determine if new HCAs have been created?

Answer: The rule does not specify a frequency for updating data used to identify HCAs. Instead, the rule states that operators must complete an evaluation when they have information that the area around a segment not previously identified as an HCA has changed so that it might now be one. *Operators are expected to assure that their HCA definitions are current.* In an area in which there is rapid growth or change in the use of buildings near the pipeline, that may require frequent updating. In an area where less growth is occurring, updates could occur more infrequently. In any event, OPS would expect that operators would evaluate conditions along their pipelines *at least annually* to determine if they have changed.



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Various Items

Recent PHMSA Advisory Bulletins (Last 2 years)

<u>Number</u>	<u>Date</u>	<u>Subject</u>
ADB-07-02	February 29, 2008	Correction - Pipeline Safety: Updated Notification of the Susceptibility to Premature Brittle-Like Cracking of Older Plastic Pipe
ADB-08-01	May 13, 2008	Pipeline Safety - Notice to Operators of Gas Transmission Pipelines on the Regulatory Status of Direct Sales Pipelines
ADB-08-02	March 4, 2008	Pipeline Safety - Issues Related to Mechanical Couplings Used in Natural Gas Distribution Systems
ADB-08-03	March 10, 2008	Pipeline Safety - Dangers of Abnormal Snow and Ice Build-Up on Gas Distribution Systems
ADB-08-04	June 5, 2008	Pipeline Safety - Installation of Excess Flow Valves into Gas Service Lines
ADB-08-05	June 25, 2008	Pipeline Safety - Notice to Hazardous Liquid Pipeline Operators of Request for Voluntary Adv Notification of Intent To Transport Biofuels
ADB-08-06	July 2, 2008	Pipeline Safety - Dynamic Riser Inspection, Maintenance, and Monitoring Records on Offshore Floating Facilities
ADB-09-01	May 21, 2009	Potential Low and Variable Yield and Tensile Strength and Chemical Composition Properties in High Strength Line Pipe
ADB-09-02	Sept 30, 2009	<u>Weldable</u> Compression Coupling Installation
ADB-09-03	Dec 7, 2009	Operator Qualification Program Modifications
ADB-09-04	Jan 14, 2010	Reporting Drug and Alcohol Test Results for Contractors and Multiple Operator Identification Numbers
ADB-10-01	Jan 26, 2010	Pipeline Safety: Leak Detection on Hazardous Liquid Pipelines
ADB-10-02	Feb 3, 2010	Implementation of Revised Incident/Accident Report Forms for Distribution Systems, Gas Transmission and Gathering Systems, and Hazardous Liquid Systems
ADB-10-03	March 24, 2010	Girth Weld Quality Issues Due to Improper Transitioning, Misalignment, and Welding Practices of Large Diameter Line Pipe



Indiana Utility Regulatory Commission

Pipeline Safety Division

2010 Operator Seminar

July 13-15, 2010

Final Thoughts

- Document, document, document
- Procedures are critical
- 'Living, breathing document(s)
 - i. Follow
 - ii. Verify
 - iii. Evaluate
 - iv. Improve
- Measure performance, monitor results, and evaluate effectiveness
- ***Be Proactive*** – Consider what could happen, prepare a response