Summary of Rule Changes Affecting 191 and 192 Published January 23, 2017 and Effective March 24, 2017

(Additional text is in bold and underlined. Retracted language is indicated with strikethrough text.)

Definition added to 191.3

<u>Confirmed Discovery means when it can be reasonably determined, based on information available to</u> <u>the operator at the time a reportable event has occurred, even if only based on a preliminary</u> <u>evaluation.</u>

§191.5 Immediate notice of certain incidents

(a) At the earliest practicable moment following discovery, each operator shall give notice in accordance with paragraph (b) of this section of each *incident* as defined in <u>§191.3</u>.

(a) At the earliest practicable moment following discovery, but no later than one hour after confirmed discovery, each operator must give notice in accordance with paragraph (b) of this section of each incident as defined in § 191.3.

- (b) Each notice required by paragraph (a) of this section must be made to the National Response Center either by telephone to 800-424-8802 (in Washington, DC, 202 267-2675) or electronically at <u>http://www.nrc.uscg.mil</u> and must include the following information:
 - (1) Names of operator and *person* making report and their telephone numbers.
 - (2) The location of the incident.
 - (3) The time of the incident.
 - (4) The number of fatalities and personal injuries, if any.
 - (5) All other significant facts that are known by the operator that are relevant to the cause of the incident or extent of the damages.
- (c) Within 48 hours after the confirmed discovery of an incident, to the extent practicable, an operator must revise or confirm its initial telephonic notice required in paragraph (b) of this section with an estimate of the amount of product released, an estimate of the number of fatalities and injuries, and all other significant facts that are known by the operator that are relevant to the cause of the incident or extent of the damages. If there are no changes or revisions to the initial report, the operator must confirm the estimates in its initial report.

§191.22 National Registry of Pipeline and LNG operators

- (a) OPID request. Effective January 1, 2012, each operator of a gas pipeline, gas pipeline facility, underground natural gas storage facility, LNG plant or LNG facility must obtain from PHMSA an Operator Identification Number (OPID). An OPID is assigned to an operator for the pipeline or pipeline system for which the operator has primary responsibility. To obtain an OPID, an operator must complete an OPID Assignment Request DOT Form PHMSA F 1000.1 through the National Registry of Pipeline, Underground Natural Gas Storage Facility, and LNG Operators in accordance with § <u>191.7</u>.
- (b) OPID validation. An operator who has already been assigned one or more OPID by January 1, 2011, must validate the information associated with each OPID through the National Registry of Pipeline, Underground Natural Gas Storage Facility, and LNG Operators at http://opsweb.phmsa.dot.gov, and correct that information as necessary, no later than June 30, 2012.
- (c) Changes. Each operator of a gas pipeline, gas pipeline facility, underground natural gas storage facility, LNG plant, or LNG facility must notify PHMSA electronically through the National Registry of Pipeline, Underground Natural Gas Storage Facility, and LNG Operators at <u>http://opsweb.phmsa.dot.gov</u> of certain events.
 - (1) An operator must notify PHMSA of any of the following events not later than 60 days before the event occurs:
 - (i) Construction or any planned rehabilitation, replacement, modification, upgrade, uprate, or update of a facility, other than a section of line pipe, that costs \$10 million or more. If 60 day notice is not feasible because of an emergency, an operator must notify PHMSA as soon as practicable;

(ii) Construction of 10 or more miles of a new pipeline

(ii) Construction of 10 or more miles of a new or replacement pipeline;

- (iii) Construction of a new LNG plant or LNG facility; or
- (iv) Construction of a new underground natural gas storage facility or the abandonment, drilling or well workover (including replacement of wellhead, tubing, or a new casing) of an injection, withdrawal, monitoring, or observation well for an underground natural gas storage facility.
- (v) Reversal of product flow direction when the reversal is expected to last more than 30 days. This notification is not required for pipeline systems already designed for bidirectional flow; or

(vi) A pipeline converted for service under § 192.14 of this chapter, or a change in commodity as reported on the annual report as required by § 191.17.

(2) An operator must notify PHMSA of any of the following events not later than 60 days after the event occurs:

- (i) A change in the primary entity responsible (i.e., with an assigned OPID) for managing or administering a safety program required by this part covering pipeline facilities operated under multiple OPIDs.
- (ii) A change in the name of the operator;
- (iii) A change in the entity (e.g., company, municipality) responsible for an existing pipeline, pipeline segment, pipeline facility, underground natural gas storage facility, or LNG facility;
- (iv) The acquisition or divestiture of 50 or more miles of a pipeline or pipeline system subject to Part 192 of this subchapter
- (v) The acquisition or divestiture of an existing LNG plant or LNG facility subject to Part 193 of this subchapter; or
- (vi) The acquisition or divestiture of an existing underground natural gas storage facility subject to part 192 of this subchapter.
- (d) Reporting. An operator must use the OPID issued by PHMSA for all reporting requirements covered under this subchapter and for submissions to the National Pipeline Mapping System.

§192.14 Conversion to service subject to this part

- (a) A *steel pipeline* previously used in service not subject to this part qualifies for use under this part if the *operator* prepares and follows a written procedure to carry out the following requirements:
 - (1) The design, construction, operation, and maintenance history of the pipeline must be reviewed and, where sufficient historical records are not available, appropriate tests must be performed to determine if the pipeline is in a satisfactory condition for safe operation.
 - (2) The pipeline right-of-way, all aboveground segments of the pipeline, and appropriately selected underground segments must be visually inspected for physical defects and operating conditions which reasonably could be expected to impair the strength or tightness of the pipeline.
 - (3) All known unsafe defects and conditions must be corrected in accordance with this part.
 - (4) The pipeline must be tested in accordance with Subpart J of this part to substantiate the *maximum allowable operating pressure* permitted by Subpart L of this part.
- (b) Each operator must keep for the life of the pipeline a record of investigations, tests, repairs, replacements, and alterations made under the requirements of paragraph (a) of this section.

(c) An operator converting a pipeline from service not previously covered by this part must notify PHMSA 60 days before the conversion occurs as required by § 191.22 of this chapter.

§192.175 Pipe-type and bottle-type holders.

- (a) Each *pipe* -type and *bottle* -type holder must be designed so as to prevent the accumulation of liquids in the holder, in connecting pipe, or in auxiliary equipment, that might cause corrosion or interfere with the safe operation of the holder.
- (b) Each pipe-type or bottle-type holder must have minimum clearance from other holders in accordance with the following formula:

C = (3D x P x F)/1,000 or C=(DxPxF/48.33)

in which:

C = Minimum clearance between pipe containers or bottles in inches (millimeters).

D = Outside diameter of pipe containers or bottles in inches (millimeters).).

P = Maximum allowable operating pressure , p.s.i. (kPa) gage.

F = Design factor as set forth in $\frac{9192.111}{9192.111}$ of this part.

(b) Each pipe -type or bottle -type holder must have minimum clearance from other holders in accordance with the following formula:

<u>C = (3D*P*F)/1000) in inches; (C = (3D*P*F*)/6,895) in millimeters</u>

in which:

<u>C = Minimum clearance between pipe containers or bottles in inches (millimeters).</u>

D = Outside diameter of pipe containers or bottles in inches (millimeters).

P = Maximum allowable operating pressure , psi (kPa) gauge.

F = Design factor as set forth in § 192.111 of this part.

§192.225 Welding Procedures

(a) Welding must be performed by a qualified welder or welding operator in accordance with welding procedures qualified under section 5, section 12, or Appendix A of API Std 1104 (incorporated by reference, see §192.7) or section IX ASME Boiler and Pressure Vessel Code (BPVC) (incorporated by reference, see §192.7), to produce welds which meet the requirements of this subpart. The quality of the test welds used to qualify welding procedures must be determined by destructive testing in accordance with the referenced welding standard(s).

(a) Welding must be performed by a qualified welder or welding operator in accordance with welding procedures qualified under section 5, section 12, Appendix A or Appendix B of API Std <u>1104 (incorporated by reference, see § 192.7), or section IX of the ASME Boiler and Pressure</u> Vessel Code (ASME BPVC) (incorporated by reference, see § 192.7) to produce welds meeting the requirements of this subpart. The quality of the test welds used to qualify welding procedures must be determined by destructive testing in accordance with the applicable welding standard(s).

- (b) Each welding procedure must be recorded in detail, including the results of the qualifying tests. This record must be retained and followed whenever the procedure is used.
- §192.227 Qualification of welders.
 - (a) Except as provided in paragraph (b) of this section, each welder or welding operator must be qualified in accordance with section 6, section 12, or Appendix A of API Std 1104 (incorporated by reference, see §192.7), or section IX of ASME Boiler and Pressure Vessel Code (BPVC) (incorporated by reference, see §192.7). However, a welder or welding operator qualified under an earlier edition than the edition listed in §192.7 may weld but may not re-qualify under that earlier edition.
 - (a) Except as provided in paragraph (b) of this section, each welder or welding operator must be qualified in accordance with section 6, section 12, Appendix A or Appendix B of API Std 1104 (incorporated by reference, see § 192.7), or section IX of the ASME Boiler and Pressure Vessel Code (ASME BPVC) (incorporated by reference, see § 192.7). However, a welder or welding operator qualified under an earlier edition than the listed in § 192.7 of this part may weld but may not requalify under that earlier edition.
 - (b) A welder may qualify to perform welding on pipe to be operated at a pressure that produces a *hoop stress* of less than 20 percent of *SMYS* by performing an acceptable test weld, for the process to be used, under the test set forth in section I of <u>Appendix C</u> of this part. Each welder who is to make a welded *service line* connection to a *main* must first perform an acceptable test weld under section II of Appendix C of this part as a requirement of the qualifying test.
- §192.631 Control room management.
 - (a) General.
 - (1) This section applies to each operator of a pipeline facility with a controller working in a control room who monitors and controls all or part of a pipeline facility through a SCADA system. Each operator must have and follow written control room management procedures that implement the requirements of this section, except that for each control room where an operator's activities are limited to either or both of:
 - (i) Distribution with less than 250,000 services, or
 - (ii) Transmission without a compressor station, the operator must have and follow written procedures that implement only paragraphs (d) (regarding fatigue), (i) (regarding compliance validation), and (j) (regarding compliance and deviations) of this section.

- (2) The procedures required by this section must be integrated, as appropriate, with operating and emergency procedures required by § § <u>192.605</u> and <u>192.615</u>. An operator must develop the procedures no later than August 1, 2011, and must implement the procedures according to the following schedule. The procedures required by paragraphs (b), (c)(5), (d)(2) and (d)(3), (f) and (g) of this section must be implemented no later than October 1, 2011. The procedures required by paragraphs (c)(1) through (4), (d)(1), (d)(4), and (e) must be implemented no later than August 1, 2012. The training procedures required by paragraph (h) must be implemented no later than August 1, 2012, except that any training required by another paragraph of this section must be implemented no later than the deadline for that paragraph.
- (b) Roles and responsibilities. Each operator must define the roles and responsibilities of a controller during normal, abnormal, and emergency operating conditions. To provide for a controller's prompt and appropriate response to operating conditions, an operator must define each of the following:
 - (1) A controller's authority and responsibility to make decisions and take actions during normal operations;
 - (2) A controller's role when an abnormal operating condition is detected, even if the controller is not the first to detect the condition, including the controller's responsibility to take specific actions and to communicate with others;
 - (3) A controller's role during an emergency, even if the controller is not the first to detect the emergency, including the controller's responsibility to take specific actions and to communicate with others; and
 - (4) A method of recording controller shift changes and any hand-over of responsibility between controllers.
 - (3) A controller's role during an emergency, even if the controller is not the first to detect the emergency, including the controller's responsibility to take specific actions and to communicate with others;
 - (4) A method of recording controller shift-changes and any hand- over of responsibility between controllers; and
 - (5) The roles, responsibilities and qualifications of others with the authority to direct or supersede the specific technical actions of a controller.
- (c) Provide adequate information. Each operator must provide its controllers with the information, tools, processes and procedures necessary for the controllers to carry out the roles and responsibilities the operator has defined by performing each of the following:
 - Implement sections 1, 4, 8, 9, 11.1, and 11.3 of API RP 1165 (incorporated by reference, see § 192.7) whenever a SCADA system is added, expanded or replaced, unless the operator demonstrates that certain provisions of sections 1, 4, 8, 9, 11.1, and 11.3 of API RP 1165 are not practical for the SCADA system used;

- (2) Conduct a point-to-point verification between SCADA displays and related field equipment when field equipment is added or moved and when other changes that affect pipeline safety are made to field equipment or SCADA displays;
- (3) Test and verify an internal communication plan to provide adequate means for manual operation of the pipeline safely, at least once each calendar year, but at intervals not to exceed 15 months;
- (4) Test any backup SCADA systems at least once each calendar year, but at intervals not to exceed 15 months; and
- (5) Establish and implement procedures for when a different controller assumes responsibility, including the content of information to be exchanged.
- (d) Fatigue mitigation. Each operator must implement the following methods to reduce the risk associated with controller fatigue that could inhibit a controller's ability to carry out the roles and responsibilities the operator has defined:
 - (1) Establish shift lengths and schedule rotations that provide controllers off-duty time sufficient to achieve eight hours of continuous sleep;
 - (2) Educate controllers and supervisors in fatigue mitigation strategies and how off-duty activities contribute to fatigue;
 - (3) Train controllers and supervisors to recognize the effects of fatigue; and
 - (4) Establish a maximum limit on controller hours-of-service, which may provide for an emergency deviation from the maximum limit if necessary for the safe operation of a pipeline facility.
- (e) *Alarm* management. Each operator using a SCADA system must have a written alarm management plan to provide for effective controller response to alarms. An operator's plan must include provisions to:
 - (1) Review SCADA safety-related alarm operations using a process that ensures alarms are accurate and support safe pipeline operations;
 - (2) Identify at least once each calendar month points affecting safety that have been taken off scan in the SCADA host, have had alarms inhibited, generated false alarms, or that have had forced or manual values for periods of time exceeding that required for associated maintenance or operating activities;
 - (3) Verify the correct safety-related alarm set-point values and alarm descriptions at least once each calendar year, but at intervals not to exceed 15 months;
 - (4) Review the alarm management plan required by this paragraph at least once each calendar year, but at intervals not exceeding 15 months, to determine the effectiveness of the plan;

- (5) Monitor the content and volume of general activity being directed to and required of each controller at least once each calendar year, but at intervals not to exceed 15 months, that will assure controllers have sufficient time to analyze and react to incoming alarms; and
- (6) Address deficiencies identified through the implementation of paragraphs (e)(1) through (e)(5) of this section.
- (f) Change management. Each operator must assure that changes that could affect control room operations are coordinated with the control room personnel by performing each of the following:
 - Establish communications between control room representatives, operator's management, and associated field personnel when planning and implementing physical changes to pipeline equipment or configuration;
 - (2) Require its field personnel to contact the control room when emergency conditions exist and when making field changes that affect control room operations; and
 - (3) Seek control room or control room management participation in planning prior to implementation of significant pipeline hydraulic or configuration changes.
- (g) Operating experience. Each operator must assure that lessons learned from its operating experience are incorporated, as appropriate, into its control room management procedures by performing each of the following:
 - Review incidents that must be reported pursuant to 49 CFR part 191 to determine if control room actions contributed to the event and, if so, correct, where necessary, deficiencies related to:
 - (i) Controller fatigue;
 - (ii) Field equipment;
 - (iii) The operation of any relief device;
 - (iv) Procedures;
 - (v) SCADA system configuration; and
 - (vi) SCADA system performance.
 - (2) Include lessons learned from the operator's experience in the training program required by this section.
- (h) Training. Each operator must establish a controller training program and review the training program content to identify potential improvements at least once each calendar year, but at intervals not to exceed 15 months. An operator's program must provide for training each controller to carry out the roles and responsibilities defined by the operator. In addition, the training program must include the following elements:

- (1) Responding to abnormal operating conditions likely to occur simultaneously or in sequence;
- (2) Use of a computerized simulator or non-computerized (tabletop) method for training controllers to recognize abnormal operating conditions;
- (3) Training controllers on their responsibilities for communication under the operator's emergency response procedures;
- (4) Training that will provide a controller a working knowledge of the pipeline system, especially during the development of abnormal operating conditions; and
- (5) For pipeline operating setups that are periodically, but infrequently used, providing an opportunity for controllers to review relevant procedures in advance of their application.
- (i) Compliance validation. Upon request, operators must submit their procedures to PHMSA or, in the case of an intrastate pipeline facility regulated by a *State*, to the appropriate State agency.
- (j) Compliance and deviations. An operator must maintain for review during inspection:
 - (1) Records that demonstrate compliance with the requirements of this section; and
 - (2) Documentation to demonstrate that any deviation from the procedures required by this section was necessary for the safe operation of a pipeline facility.

§192.740 Pressure regulating, limiting, and overpressure protection—Individual service lines directly connected to production, gathering, or transmission pipelines

- (a) This section applies, except as provided in paragraph (c) of this section, to any service line directly connected to a production, gathering, or transmission pipeline that is not operated as part of a distribution system.
- (b) Each pressure regulating or limiting device, relief device (except rupture discs), automatic shutoff device, and associated equipment must be inspected and tested at least once every 3 calendar years, not exceeding 39 months, to determine that it is:
 - (1) In good mechanical condition;
 - (2) Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed;
 - (3) Set to control or relieve at the correct pressure consistent with the pressure limits of §192.197; and to limit the pressure on the inlet of the service regulator to 60 psi (414 kPa) gauge or less in case the upstream regulator fails to function properly; and
 - (4) Properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.
- (c) This section does not apply to equipment installed on service lines that only serve engines that power irrigation pumps.

§192.1003 What do the regulations in this subpart cover?

General. This subpart prescribes minimum requirements for an IM program for any *gas* distribution *pipeline* covered under this part, including liquefied petroleum gas systems. A gas distribution *operator*, other than a master meter operator or a small LPG operator, must follow the requirements in § 192.1005 192.1013 of this subpart. A master meter operator or small LPG operator of a gas distribution pipeline must follow the requirements in § 192.1015 of this subpart.

- (a) General. Unless exempted in paragraph (b) of this section this subpart prescribes minimum requirements for an IM program for any gas distribution pipeline covered under this part, including liquefied petroleum gas systems. A gas distribution operator, other than a master meter operator or a small LPG operator, must follow the requirements in § § 192.1005 through 192.1013 of this subpart. A master meter operator or small LPG operator of a gas distribution pipeline must follow the requirements in § 192.1015 of this subpart.
- (b) Exceptions. This subpart does not apply to an individual service line directly connected to a transmission, gathering, or production pipeline.