

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

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**GENERAL INSTRUCTIONS**

Each operator of a gas transmission or gathering pipeline system shall file Form PHMSA F 7100.2 for an incident that meets the criteria in 49 CFR §191.3 as soon as practicable but not more than 30 days after detection of the incident. Requirements for submitting reports are in §191.7 and §191.15.

The intentional and controlled release of gas for the purpose of maintenance or other routine operating activities is not to be reported if the only reportable criterion is unintentional loss of gas of 3 million cubic feet or more as described in §191.3 under “Incident” (1)(iii).

Special considerations apply when a pipeline failure or release occurs involving secondary ignition. Secondary ignition is a fire where the origin of the fire is unrelated to the gas systems subject to Parts 191 or 192, such as electrical fires, arson, etc., and includes events where fire or explosion not originating from a pipeline system failure or release was the primary *cause* of the pipeline system failure or release, such as a refinery fire that subsequently resulted in – but was not caused by – a gas transmission or gas gathering pipeline system failure or release. An incident caused by secondary ignition is not to be reported unless a release of gas escaping from facilities subject to regulation under Parts 191 or 192 results in one or more of the consequences as described in §191.3 under "Incident" (1). The determination of consequences from a pipeline incident caused by secondary ignition, though, is an area of possible confusion when reporting incidents. This situation is particularly susceptible to confusion as compared to other Natural or Other Outside Force Damage because it is extremely difficult in most cases to establish whether and which consequences were attributable to the initiating fire (that is, the “secondary ignition” source itself) or to a subsequent fire due to a resulting pipeline system failure or release. PHMSA is providing the following guidance for operators to use when secondary ignition is involved (sometimes referred to as “Fire First” incidents):

- A pipeline incident attributed to secondary ignition is to be reported to PHMSA if any fatalities or injuries are involved unless it can be established with reasonable certainty that all of the casualties either preceded the pipeline system failure or release, or would have occurred whether or not the pipeline system failure or release occurred.
- A pipeline incident attributed to secondary ignition is NOT to be reported to PHMSA if the only reportable criterion is unintentional loss of gas of 3 million cubic feet or more as described in §191.3 under "Incident" (1)(iii).
- A pipeline incident attributed to secondary ignition is NOT to be reported to PHMSA unless the damage to facilities subject to Parts 191 or 192 equals or exceeds \$50,000.

These considerations apply to several pipeline incident cause categories as indicated in pertinent sections of these instructions.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

PHMSA requires electronic reporting. Follow these instructions for electronic filing or to request an alternative reporting method. If you have questions about this report or these instructions, contact PHMSA's Information Resources Manager at 202-366-8075. If you need copies of Form PHMSA F 7100.2 and/or instructions, they can be found on the Pipeline Safety Community main page, <http://phmsa.dot.gov/pipeline>, by clicking the Library hyperlink and then selecting the Forms link under the "Mini-Menu" on the right side of the page. The applicable forms are listed in the section titled Accidents/Incidents/Annual Reporting Forms.

**§191.3 Definitions.**

\* \* \* \* \*

***Incident* means any of the following events:**

**(1) An event that involves a release of gas from a pipeline, or of liquefied natural gas, liquefied petroleum gas, refrigerant gas, or gas from an LNG facility, and that results in one or more of the following consequences:**

**(i) A death, or personal injury necessitating in-patient hospitalization;**

**(ii) Estimated property damage of \$50,000 or more, including loss to the operator and others, or both, but excluding cost of gas lost.**

**(iii) Unintentional estimated gas loss of three million cubic feet or more;**

**(2) An event that results in an emergency shutdown of an LNG facility. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident.**

**(3) An event that is significant in the judgment of the operator, even though it did not meet the criteria of paragraphs (1) or (2) of this definition.**

**§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 §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 <http://www.nrc.uscg.mil> and must include the following information:**

**(1) Names of operator and person making report and their telephone numbers.**

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**(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.**

**§191.15 Transmission systems; gathering systems; and liquefied natural gas facilities: Incident report.**

**(a) *Transmission or Gathering.* Each operator of a transmission or a gathering pipeline system must submit DOT Form PHMSA F 7100.2 as soon as practicable but not more than 30 days after detection of an incident required to be reported under §191.5 of this part.**

**(b) *LNG.* Each operator of a liquefied natural gas plant or facility must submit DOT Form PHMSA F 7100.3 as soon as practicable but not more than 30 days after detection of an incident required to be reported under §191.5 of this part.**

**(c) *Supplemental report.* Where additional related information is obtained after a report is submitted under paragraph (a) or (b) of this section, the operator must make a supplemental report as soon as practicable with a clear reference by date to the original report.**

\* \* \* \* \*

Further information regarding when reports are identified as “Final” will be covered below under PART A – Key Report Information.

## ONLINE REPORTING REQUIREMENTS

Incident Reports must be submitted online unless an alternate method is approved (see Alternate Reporting Methods below).

The following two separate PIN/Password requirements must be fulfilled prior to submitting data online:

1. You must have a PHMSA-provided Operator Identification Number (OPID) and Personal Identification Number (PIN). If you do not have one, complete and submit the form located on the PHMSA-Office of Pipeline Safety Online Data Entry and Operator Registration System New

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

Operator Registration web site at <http://opsweb.phmsa.dot.gov> to obtain one.

2. You must ALSO have a Username and Password obtained by registering through the PHMSA Portal. If you have a PHMSA OPID and PIN, you may obtain a Username and Password through the PHMSA Portal. If you do not have a Username and Password for the PHMSA Portal, go to <https://portal.phmsa.dot.gov/pipeline> and click on *Create Account* and complete the form as required.

Important: Each operator without an OPID is to plan accordingly and allow for several weeks prior to the due date of the Report to obtain their OPID from PHMSA.

## REPORTING METHODS

Incident Reports must be submitted online unless an alternate method is approved (see Alternate Reporting Methods below). Use the following procedure for online reporting:

1. Navigate to the **Online Data Entry System (ODES 2.0)** at the following URL <http://pipelineonlinereporting.phmsa.dot.gov/>.
2. Enter Operator Identification Number (OPID) and PIN. *Note: The operator name that appears is assigned to the OPID and PIN, and is automatically populated by our database and cannot be changed by the operator at the time of filing.*
3. Under “**Create Reports**” on the left side of the screen, select “Gas Transmission and Gathering Incident Report” and proceed with entering your data. *Note: Data fields marked with a single asterisk are considered required fields that must be completed before the system will accept your initial submission.*
4. Click “**Submit**” when finished with your data entry to have your report uploaded to PHMSA’s database as an official submission of an Incident Report; or click “**Save**” which doesn’t submit the report to PHMSA but stores it in a draft status to allow you to come back to complete your data entry and report submission at a later time. *Note: The “Save” feature will allow you to start a report and save a draft of it which you can print out and/or save as a PDF to email to colleagues in order to gather additional information and then come back to accurately complete your data entry before submitting it to PHMSA.*
5. Once you click “**Submit**”, the system will return you to the initial view of the screen that lists your [Saved Incident/Accident Reports] in the top portion of the screen and your [Submitted Incident/Accident Reports] in the bottom portion of the screen. *Note: To confirm that your report was successfully submitted to PHMSA, look for it in the bottom portion of the screen where you can also view a PDF of what you submitted.*

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**Supplemental Report Filing** – Follow Steps 1 and 2 above, and then select a previously submitted report from the [Submitted Incident/Accident Reports] list in the bottom portion of the screen by double clicking on the desired report. The report will default to a “Read Only” mode that is pre-populated with the data you entered previously. To create a Supplemental Report, click on “Create Supplemental” found in the upper right corner of the screen. At this point, you can amend your data and make an official submission of the report to PHMSA as either a Supplemental Report or as a Supplemental Report *plus* Final Report (see “Specific Instructions, PART A, Report Type”), or you can use the “**Save**” feature to create a draft of your Supplemental Report to be submitted at some future date. Reports that were saved will appear in the [Saved Incident/Accident Reports] list in the top portion of the screen and reports that were submitted will appear in the [Submitted Incident/Accident Reports] list in the bottom portion of the screen.

**If you submit your report online, DO NOT MAIL OR FAX a hardcopy of the completed report to DOT as this may result in duplicate entries.**

### **Alternate Reporting Methods**

Operators for whom electronic reporting imposes an undue burden and hardship may submit a written request for an alternate reporting method. Operators must follow the requirements in §191.7(d) to request an alternate reporting method and must comply with any conditions imposed as part of PHMSA’s approval of an alternate reporting method.

## **RETRACTING A 30-DAY WRITTEN REPORT**

An operator who reports an incident in accordance with §191.15 (oftentimes referred to as a 30-day written report) and upon subsequent investigation determines that the event did not meet the criteria in §191.3 may request that the report be retracted. Requests to retract a 30-day written report are to be emailed to [InformationResourcesManager@dot.gov](mailto:InformationResourcesManager@dot.gov). Requests are to include the following information:

- a. The Report ID (the unique 8-digit identifier assigned by PHMSA)
- b. Operator name
- c. PHMSA-issued OPID number
- d. The number assigned by the National Response Center (NRC) when an immediate notice was made in accordance with §191.5. If Supplemental Reports were made to the NRC for the event, list all NRC report numbers associated with the event.
- e. Date of the event
- f. Location of the event
- g. A brief statement as to why the report should be retracted.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

Note: PHMSA no longer requests that operators rescind erroneously reported “Immediate Notices” filed with the NRC in accordance with §191.5 (oftentimes referred to as “Telephonic Reports”).

## SPECIAL INSTRUCTIONS

Certain data fields must be completed before an Original Report will be accepted. The data fields that must be completed for an Original Report to be accepted are indicated on the online form. Your Original Report will not be able to be submitted online until the required information has been provided, although your partially completed form can be saved online so that you can return at a later time to provide the missing information.

1. An entry should be made in each applicable space or check box, unless otherwise directed by the section instructions.
2. If the data is unavailable, enter “Unknown” for text fields and leave numeric fields and fields using check boxes or “radio” buttons blank.
3. Estimate data only if necessary. Provide an estimate in lieu of answering a question with “Unknown” or leaving the field blank. Estimates should be based on best-available information and reasonable effort.
4. For unknown or estimated data entries, the operator should file a Supplemental Report when additional or more accurate information becomes available.
5. If the question is not applicable, enter “N/A” for text fields and leave numeric fields and fields using check boxes or “radio” buttons blank. Do not enter zero unless this is the actual value being submitted for the data in question.
6. For questions requiring numeric answers, all preceding and/or unused data fields should be filled in using zeroes. When decimal points or commas are required and not already shown in the data field, **the decimal point or comma should be placed in a separate block** in the data field.

Examples:

- |                                                         |                              |
|---------------------------------------------------------|------------------------------|
| (PART C, Question 3.a, ) Nominal diameter of pipe (in): | /0/0/2/4/ (24 inches)        |
|                                                         | /3/./5/ (3.5 inches)         |
| (PART C, Question 3.b), Wall thickness (in)             | /0/./3/1/2/ (0.312 inches)   |
| (PART C, Question 3.c), SMYS                            | /0/5/2/,/0/0/0/ (52,000 psi) |
7. If **OTHER** is checked for any answer to a question, include an explanation or description on the line provided, making it clear why “Other” was the necessary selection.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

8. Pay close attention to each question for the phrase:

- a. **(select all that apply)**
- b. **(select only one)**

If the phrase is not provided for a given question, then “select only one” should apply. “Select only one” means that you should select the single, primary, or most applicable answer. **DO NOT SELECT MORE ANSWERS THAN REQUESTED.** “Select all that apply” requires that all applicable answers (one or more than one) be selected.

9. **Date format** = mm/dd/yy or for year = /yyyy/

10. **Time format:** All times are reported as a 24-hour clock:

**Time format Examples:**

- a. (0000) = midnight = /0/0/0/0/
- b. (0800) = 8:00 a.m. = /0/8/0/0/
- c. (1200) = Noon = /1/2/0/0/
- d. (1715) = 5:15 p.m. = /1/7/1/5/
- e. (2200) = 10:00 p.m. = /2/2/0/0/

**Local time** always refers to time at the site of the incident. Note that time zones at the incident site may be different than the time zone for the person discovering or reporting the event. For example, if a release occurs at an gas transmission facility in Denver, Colorado at 2:00 pm MST, but an individual located in Houston is filing the report after having been notified at 3:00 pm CST, the time of the incident is to be reported as 1400 hours based on the time in Denver, which is the physical site of the incident.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**SPECIFIC INSTRUCTIONS**

**PART A – KEY REPORT INFORMATION**

**Report Type: (select all that apply)**

Select the appropriate report box or boxes to indicate the type of report being filed. Depending on the descriptions below, the following combinations of boxes – and only one of these combinations - may be selected:

- Original Report only
- Original Report *plus* Final Report
- Supplemental Report only
- Supplemental Report *plus* Final Report

☐ **Original Report**

Select this type of report if this is the **FIRST** report filed for this incident, and not enough information is available at this time to conclude that this is also a Final Report where no further information will be forthcoming. Select Original Report in cases where further information may be forthcoming, such as when final property damage numbers or apparent failure cause is not immediately available.

☐ **Original Report**    *plus*    ☐ **Final Report**

Select **both** Original Report and Final Report if **ALL** of the information requested is known and can be provided at the time the initial report is filed, including final property damage costs and apparent failure cause information. Selecting both these types of reports will indicate that further information is not expected to be forthcoming through a Supplemental Report. If, however, for some reason new, updated, and/or corrected information becomes available unexpectedly, the operator is to still file a Supplemental Report indicating such and explaining the circumstances in PART H – Narrative Description of the Incident.

☐ **Supplemental Report**

Select this type of report only if you have already filed an Original Report **AND** you are now providing new, updated, and/or corrected information. Multiple Supplemental Reports are to be submitted, as necessary, in order to provide new, updated, and/or corrected information ***when it becomes available*** and, per §191.15(c), each Supplemental Report containing new, updated, and/or corrected information is to be filed as soon as practicable. Submission of new, updated,



INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

and/or corrected information is NOT to be delayed in order to accumulate “enough” to “warrant” a Supplemental Report, or to complete a Final Report. ***Supplemental Reports must be filed as soon as practicable following the Operator’s awareness of new, updated, and/or corrected information.*** Failure to comply with these requirements can result in enforcement actions, including the assessment of civil penalties not to exceed \$100,000 for each violation for each day that such violation persists up to a maximum of \$1,000,000.

In those cases in which investigations are ongoing, operators should file a Supplemental Report within one year even in those instances where no new, updated, and/or corrected information has been obtained, indicating such in PART H – Narrative Description of Incident.

For Supplemental Reports filed online, all data previously submitted will automatically populate in the form. Page through the form to make edits and additions where needed.

☐ **Supplemental Report**    *plus*    ☐ **Final Report**

If an Original Report has already been filed AND new, updated, and/or corrected information is now being submitted via a Supplemental Report, AND the operator is reasonably certain that no further information will be forthcoming, then Final Report is to also be selected along with Supplemental Report. (See also the requirements stated above under “Supplemental Report”.)

Important: If an operator files one of the two types of Final Reports (either Original *plus* Final or Supplemental *plus* Final) and then subsequently finds that new, updated, and/or corrected information needs to be provided, the operator is to submit another Supplemental Report, selecting the appropriate report types (Supplemental or Supplemental *plus* Final) for the newly submitted report and explaining the circumstances in PART H – Narrative Description of the Incident.

**In PART A, answer Questions 1 thru 19 by providing the requested information or by making the appropriate selection.**

**1. Operator’s OPS -Issued Operator Identification Number (OPID)**

The Pipeline and Hazardous Materials Safety Administration (PHMSA) assigns the Operator Identification Number (OPID). Most OPIDs are 5 digits. Older OPIDs may contain fewer digits. If your OPID contains fewer than 5 digits, insert leading zeros to fill all blanks. (For example, enter 00395 instead of 395.) Contact PHMSA’s Information Resources Manager at 202-366-8075 if you need assistance with an OPID. Business hours are 8:30 AM to 5:00 PM Eastern Standard Time.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

## 2. Name of Operator

This is the company name used when registering for an OPID and PIN in PHMSA's Online Data Entry System. For online entries, the Name of Operator will be automatically filled in based on the OPID entered in Question 1. If the name that appears automatically after entering the OPID is not correct or does not coincide with the OPID entered, contact PHMSA's Information Resources Manager at 202-366-8075.

## 3. Address of Operator

Enter the address of the operator's business office to which any correspondence related to the Incident Report is to be sent.

## 4. Local time (24-hour clock) and date of the Incident

Enter the date of the incident and the local time the incident occurred.

See "Special Instructions", numbers 9 and 10 for examples of **Date format** and **Time format** expressed as a 24-hour clock.

## 5. Location of Incident

The latitude and longitude of the incident are to be reported as Decimal Degrees with a minimum of 5 decimal places (e.g. Lat: 38.89664 Long: -77.04327), using the NAD83 or WGS84 datums.

If you have coordinates in degrees/minutes or degrees/minutes/seconds, use the formula below to convert to decimal degrees:

$$\text{degrees} + (\text{minutes}/60) + (\text{seconds}/3600) = \text{decimal degrees}$$

e.g.  $38^{\circ} 53' 47.904'' = 38 + (53/60) + (47.904/3600) = 38.89664^{\circ}$

All locations in the United States will have a negative longitude coordinate, **which has already been included on the data entry form so that operators do not have to enter the negative sign.**

If you cannot locate the incident with a GPS or some other means, there are online tools that may assist you at <http://www.getlatlon.com/> or <http://viewer.nationalmap.gov/viewer/>. Any questions regarding the required format, conversion, or how to use the tools noted above can be directed to Amy Nelson (202-493-0591 or amy.nelson@dot.gov).

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**6. National Response Center (NRC) Report Number**

§191.5 requires that incidents meeting the criteria outlined in §191.3 be reported directly to the **24-hour National Response Center (NRC) at 1-800-424-8802** at the earliest practicable moment (generally within 2 hours). The NRC assigns numbers to each call. The number assigned to that Immediate Notice (sometimes referred to as the “Telephonic Report”) is to be entered in Question 6.

**7. Local time (24-hr clock) and date of initial telephonic report to the National Response Center**

Enter the time and date of the Immediate Notice of the incident to the NRC. The time is to be shown by 24-hour clock notation, and is to reflect the time in the time zone where the incident was physically located. (See “Special Instructions”, numbers 9 and 10.)

**8. Incident resulted from**

Indicate whether the incident resulted from the intentional or unintentional release of gas or for reasons other than a release of gas.

**9. Gas released**

Select the type of gas released. Examples of **Synthetic Gas** include landfill gas, biogas, and manufactured gas based on naphtha.

**General Information for Questions 10, 11, and 12:**

*Important Note: Volumes consumed by fire and/or explosion are to be included in the estimated volumes reported.*

**10. Estimated volume of gas released unintentionally**

Estimate the amount of gas that was released (in thousands of standard cubic feet, MCF) from the beginning of the incident until such time as gas is no longer being released from the pipeline system or until intentional and controlled blowdown has commenced. Estimates are to be based on best-available information.

**11. Estimated volume of intentional and controlled release/blowdown**

Estimate the amount of gas that was released (in thousands of standard cubic feet, MCF) during any intentional release or controlled blowdown conducted as part of responding to or recovering from the incident. Intentional and controlled blowdown implies a level of control of the site and

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

situation by the operator such that the area and the public are protected during the controlled release.

## 12. Estimated volume of accompanying liquid released

Estimate the amount of accompanying liquid that was spilled to the ground (or other containment) as a liquid (in barrels) from the beginning of the incident until such time as the liquid is no longer being released from the system. Barrel means a unit of measurement equal to 42 U.S. standard gallons. If less than 1 barrel, report to 1 decimal place using the conversion table below. De minimus volumes, including but not limited to those which sometimes result in some form of ignition, are to be reported as 0.1 barrels.

| If estimated volume is | Report             | If estimated volume is | Report             |
|------------------------|--------------------|------------------------|--------------------|
| <5 gallons             | <b>0.1</b> barrels | 24-27 gallons          | <b>0.6</b> barrels |
| 5-10 gallons           | <b>0.2</b> barrels | 28-31 gallons          | <b>0.7</b> barrels |
| 11-14 gallons          | <b>0.3</b> barrels | 32-35 gallons          | <b>0.8</b> barrels |
| 15-18 gallons          | <b>0.4</b> barrels | 36-39 gallons          | <b>0.9</b> barrels |
| 19-23 gallons          | <b>0.5</b> barrels | 40-42 gallons          | <b>1.0</b> barrels |

## 13. Were there fatalities?

If a person dies at the time of the incident or within 30 days of the initial incident date due to injuries sustained as a result of the incident, report as a fatality. If a person dies subsequent to an injury more than 30 days past the incident date, report as an injury. (Note: This aligns with the Department of Transportation's general guidelines for all jurisdictional transportation modes for reporting deaths and injuries.)

**Contractor employees working for the operator** are individuals hired to work for or on behalf of the operator of the pipeline. These individuals are not to be reported as “Operator employees”.

**Non-Operator emergency responders** are individuals responding to render professional aid at the incident scene, including on-duty and volunteer fire fighters, rescue workers, EMTs, police officers, etc. “Good Samaritans” that stop to assist are to be reported as “General public.”

**Workers Working on the Right-of-Way, but NOT Associated with this Operator** means people authorized to work in or near the right-of-way, but not hired by or working on behalf of the operator of the pipeline. This includes all work conducted within the right-of-way including work associated with other underground facilities sharing the right-of-way, building/road construction in or across the right-of-way, or farming. This category most often includes employees of other pipelines or underground facilities operators, or their

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

contractors, working in or near a shared right-of-way. Workers performing work near, but not on, the right-of-way and who are affected are to be reported as “General public”.

**14. Were there injuries requiring inpatient hospitalization?**

Injuries requiring inpatient hospitalization are injuries sustained as a result of the incident and that require both hospital admission *and* at least one overnight stay.

See Question 13 for additional definitions that apply.

**15. Was the pipeline/facility shut down due to the Incident?**

Report any shutdowns that occur as a result of the incident, including but not limited to those required for damage assessment, temporary repair, permanent repair, and clean-up.

If No is selected, explain the reason that no shutdown was needed in the space provided.

If Yes is selected, complete Questions 15.a and 15.b.

**15.a. Local time (24hr clock) and date of shutdown**

**15.b. Local time pipeline/facility restarted**

The time is to be shown by 24-hour clock notation, and is to reflect the time in the time zone where the incident was physically located. (See “Special Instructions”, numbers 9 and 10.) Enter the time and date of the shutdown that is associated with the onset or occurrence of the incident in 15.a and the time and date of restart in 15.b. The intent with this data is to capture the total time that the pipeline or facility is shutdown due to the incident. If the pipeline or facility has not been restarted at the time of reporting, select “Still shut down” for Question 15.b and then include the restart time and date in a future Supplemental Report.

**16. Did the gas ignite?**

**Ignite** means the released gas caught fire.

**17. Did the gas explode?**

**Explode** means the ignition of the released gas occurred with a sudden and violent release of energy.

**18. Number of general public evacuated**

The number of people evacuated is to be estimated based on operator knowledge, or police, fire department, or other emergency responder reports. If there was no evacuation involving the

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

general public, report zero (0). If an estimate is not possible for some reason, leave the field blank but include an explanation of why it was not possible to provide a number in PART H – Narrative Description of the Incident.

**19. Time sequence (use local time, 24-hour clock)**

Enter the time and date the operator became aware of the incident (i.e., when the operator first identified that the incident had occurred, and NOT when the operator determined that the incident met the reporting criteria of §191.3) and the time operator personnel or contract resources (i.e., personnel or equipment) arrived on site. The time is to be shown by 24-hour clock notation, and is to reflect the time in the time zone where the incident was physically located. (See “Special Instructions”, numbers 9 and 10.)

|                                                 |
|-------------------------------------------------|
| <b>PART B – ADDITIONAL LOCATION INFORMATION</b> |
|-------------------------------------------------|

**1. Was the origin of the incident onshore?**

Answer Yes or No as appropriate and complete only the designated questions.

**If Onshore**

**2. – 5. Incident Location**

Provide the state, zip code, city, and county/parish in which the incident occurred.

**6. Operator-designated location**

This is intended to be the designation that the operator would use to identify the location of the incident on its pipeline system. Enter the appropriate milepost/valve station or survey station number. This designator is intended to allow PHMSA personnel to both return to the physical location of the incident using the operator’s own maps and identification systems as well as to identify the “paper” location of the incident when reviewing operator maps and records.

**7. Pipeline/Facility name**

Multiple pipeline systems and/or facilities are often operated by a single operator. This information identifies the particular pipeline system or pipeline facility name commonly used by the operator on which the incident occurred, for example, the “West Line 24” Pipeline”, or “Gulf Coast Pipeline”, or “Wooster Storage Facility”.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

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**8. Segment name/ID**

Within a given pipeline system and/or facility, there are typically multiple segment or station identifiers, names, or ID's which are commonly used by the operator. The information to be reported here helps locate and/or record the more precise incident location, for example, "Segment 4-32", or "MP 4.5 to Wayne County Line", or "Dublin Compressor Station", or "Witte Reducing Station".

**9. Was the Incident on Federal Lands other than the Outer Continental Shelf?**

Federal Lands other than Outer Continental Shelf means all lands the United States owns, including military reservations, except lands in National Parks and lands held in trust for Native Americans. Incidents at Federal buildings, such as Federal Court Houses, Custom Houses, and other Federal office buildings and warehouses, are NOT to be reported as being on Federal Lands.

**10. Location of Incident**

**Operator-controlled Property** would normally apply to an operator's facility, which may or may not have controlled access, but which is often fenced or otherwise marked with discernible boundaries. This "operator-controlled property" does not refer to the pipeline right-of-way, which is a separate choice for this question.

**11. Area of Incident (as found)**

This refers to the location on the pipeline system at which gas was released, resulting in the incident. It does not refer to adjacent locations in which released gas may have accumulated or ignited.

**Underground** means pipe, components, or other facilities installed below the natural ground level, road bed, or below the underwater natural bottom.

**Under pavement** includes under streets, sidewalks, paved roads, driveways, and parking lots.

**Exposed due to Excavation** means that a normally buried pipeline had been exposed by any party (operator, operator's contractor, or third party) preparatory to or as a result of excavation. The cause of the release, however, may or may not necessarily be related to excavation damage. This category could include a corrosion leak not previously evidenced by stained vegetation, but found during an ILI dig, or a release caused by a non-excavation vehicle where contact happened to occur while the pipeline was exposed for a repair or examination. Natural forces might also damage a pipeline that happened to be temporarily exposed. In each case, the cause is to be appropriately reported in PART G of this form.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**Aboveground** means pipe, components, or other facilities that are above the natural grade.

**Typical aboveground facility piping** includes any pipe or components installed aboveground such as those at compressor stations, valve sites, and reducing stations.

**Transition area** means the junction of differing material or media between pipes, components, or facilities such as those installed at a belowground-aboveground junction (soil/air interface), another environmental interface, or in close contact to supporting elements such as those at water crossings, compressor stations, and gas storage facilities.

## **12. Did Incident occur in a crossing?**

Use **Bridge Crossing** if the pipeline is suspended above a body of water or roadway, railroad right-of-way, etc. either on a separately designed pipeline bridge or as a part of or connected to a road, railroad, or passenger bridge.

Use **Railroad Crossing** or **Road Crossing**, as appropriate, if the pipeline is buried beneath rail bed or road bed.

Use **Water Crossing** if the pipeline is in the water, beneath the water, in contact with the natural ground of the lake bed, etc., or buried beneath the bed of a lake, reservoir, stream or creek, whether the crossing happens to be flowing water at the time of the incident or not. The name of the body of water is to be provided if it is commonly known and understood among the local population. (The purpose of this information is to allow persons familiar with the area in which the incident occurred to identify the location and understand it in its local context. Research to identify names that are not commonly used is not necessary since such names would not fulfill the intended purpose. If a body of water does not have a name that is commonly used and understood in the local area, this field may be left blank).

For **Approximate water depth (ft)** of the lake, reservoir, etc., estimate the typical water depth at the location and time of the incident, ignoring seasonal, weather-related, and other factors which may affect the water depth from time to time.

## **If Offshore**

## **13. Approximate water depth (ft.) at the point of the Incident**

This is to be the estimated depth from the surface of the water to the seabed at the point of the incident regardless of whether the pipeline is below/on the bottom, underwater but suspended above the bottom, or above the surface (e.g., on a platform).



INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

#### 14. Origin of the Incident

Area and Tract/Block numbers are to be provided for either State or OCS waters, whichever is applicable.

For Nearest County/Parish, as with the name of an onshore body of water (see Question 12 above), the data collected is intended to allow persons familiar with the area in which the incident occurred to identify the location and understand it in its local context. Accordingly, it is not necessary to take measurements to determine which county/parish is precisely “nearest” in cases where the incident location is approximately equidistant from two (or more). In such cases, the name of one of the nearby counties/parishes is to be provided.

### PART C – ADDITIONAL FACILITY INFORMATION

#### 1. Is the pipeline or facility [Interstate or Intrastate]?

**Interstate** gas pipeline facility means a gas pipeline facility or that part of a gas pipeline facility that is used to transport gas and is subject to the jurisdiction of the Federal Energy Regulatory Commission (FERC) under the Natural Gas Act (15 U.S.C. 717 et seq.).

**Intrastate** gas pipeline facility means a gas pipeline facility or that part of a gas pipeline facility that is used to transport gas within a state and is not subject to the jurisdiction of FERC under the Natural Gas Act (15 U.S.C. 717 et seq.).

#### 3. Item involved in Incident

**Pipe** (whether pipe body or pipe seam) means the pipe through which product is transported, not including auxiliary piping, tubing, or instrumentation.

**Nominal diameter of pipe** is also called **Nominal pipe size**. It is the diameter in whole number inches (except for pipe less than 4”) used to describe the pipe size; for example, 8-5/8 pipe has a nominal pipe size of 8”. Decimals are unnecessary for this measure (except for pipe less than 4”).

Enter **pipe wall thickness** in inches. Wall thickness is typically less than an inch, and is standard among different pipeline types and manufacturers. Accordingly, use three decimal places to report wall thickness: 0.312, 0.281, etc.

**SMYS** means specified minimum yield strength and is the yield strength prescribed by the specification under which the material is purchased from the manufacturer.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**Pipe Specification** is the specification to which the pipe was manufactured, such as API 5L or ASTM A106.

**Pipe seam** means the longitudinal seam (longitudinal weld) created during manufacture of the joint of pipe.

**Pipe Seam Type Abbreviations**

**SAW** means submerged arc weld  
**ERW** means electric-resistance weld  
**DSAW** means double submerged arc weld

**Auxiliary piping** means piping, usually small in diameter, that supports the operation of the mainline or facility piping, but does not include tubing. Examples of auxiliary piping include discharge and drain lines, etc.

If the incident occurred on an item not provided in this section, select “Other” and specify the item that failed in the space provided.

**6. Type of Incident involved (*select only one*)**

**Mechanical puncture** means a puncture of the pipeline, typically by a piece of equipment such as would occur if the pipeline were pierced by directional drilling or a backhoe bucket tooth. Not all excavation-related damage will be a “mechanical puncture.” (Precise measurement of size – e.g., using a micrometer – is not needed. Approximate measurements can be provided in inches and one decimal.)

**Leak** means a failure resulting in an unintentional release of gas that is often small in size, usually resulting in a low flow release of low volume, although large volume leaks can and do occur on occasion.

**Rupture** means a loss of containment that immediately impairs the operation of the pipeline. Pipeline ruptures often result in a higher flow release of larger volume. The terms “circumferential” and “longitudinal” refer to the general direction or orientation of the rupture relative the pipe’s axis. They do not exclusively refer to a failure involving a circumferential weld such as a girth weld, or to a failure involving a longitudinal weld such as a pipe seam. (Precise measurement of size – e.g., micrometer – is not needed. Approximate measurements can be provided in inches and decimals.)

**PART D – ADDITIONAL CONSEQUENCE INFORMATION**

**§ 192.903 What definitions apply to this subpart?**

\* \* \* \* \*

**High consequence area means an area established by one of the methods described in paragraphs (1) or (2) as follows:**

**(1) An area defined as--**

- (i) A Class 3 location under Sec. 192.5; or**
- (ii) A Class 4 location under Sec. 192.5; or**
- (iii) Any area in a Class 1 or Class 2 location where the potential impact radius is greater than 660 feet (200 meters), and the area within a potential impact circle contains 20 or more buildings intended for human occupancy; or**
- (iv) Any area in a Class 1 or Class 2 location where the potential impact circle contains an identified site.**

**(2) The area within a potential impact circle containing--**

- (i) 20 or more buildings intended for human occupancy, unless the exception in paragraph (4) applies; or**
- (ii) An identified site.**

**(3) Where a potential impact circle is calculated under either method (1) or (2) to establish a high consequence area, the length of the high consequence area extends axially along the length of the pipeline from the outermost edge of the first potential impact circle that contains either an identified site or 20 or more buildings intended for human occupancy to the outermost edge of the last contiguous potential impact circle that contains either an identified site or 20 or more buildings intended for human occupancy. (See figure E.I.A. in appendix E.)**

\* \* \* \* \*

**2. Did this Incident occur in a High Consequence Area (HCA)?**

This question is to be answered based on the classification of the involved segment in the operator's Integrity Management (IM) Program at the time of the incident.

**2.a. Specify the Method used to identify the HCA:**

Answer this question only if the incident occurred in an HCA.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

As defined in §192.903, HCAs are determined by one of two methods: Method (1) uses class locations, and Method (2) uses potential impact circles. The operator is to identify the method used within its IM program to determine that the location at which the incident occurred was an HCA.

**3. What is the PIR (Potential Impact Radius) for the location of this Incident?**

An operator is to answer this question for all incidents, *regardless of whether or not the incident occurred in a high consequence area (HCA) or of the method used to identify an HCA*. A PIR is one of the two methods for identifying an HCA, and this question and those immediately following are intended to collect data from actual incidents as part of a continuing effort to assure that the definition of a PIR is appropriate for that purpose.

PIR is defined in §191.903 as the radius of a circle within which the potential failure of a pipeline could have significant impact on people or property. PIR is determined by the formula:

$$r = 0.69 * \sqrt{p * d^2}$$

where: r is the radius of a circular area in feet surrounding the point of failure,  
p is the maximum allowable operating pressure (MAOP) in the pipeline segment in pounds per square inch and  
d is the nominal diameter of the pipeline in inches.

[0.69 is the factor for natural gas. This number will vary for other gases depending upon their heat of combustion. An operator transporting gas other than natural gas must use Section 3.2 of ASME/ANSI B31.8S-2001 (Supplement to ASME B31.8; incorporated into the regulations by reference, see §192.7) to calculate the impact radius formula.]

**4. Were any structures outside the PIR impacted or otherwise damaged by heat/fire resulting from the Incident?**

Report any damage to structures further from the point of failure than the PIR distance that resulted from heat radiation or fires started as a result of the incident.

**5. Were any structures outside the PIR impacted or otherwise damaged NOT due to heat/fire resulting from the Incident?**

This would include damage by blast effects, impact from flying debris dislodged by a pipeline rupture, etc.

**6. Were any of the fatalities or injuries reported for persons located outside the PIR?**

This refers to the fatalities and injuries reported in PART A, Questions 13 and 14.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

## 7. Estimated Property Damage

All relevant costs available at the time of submission must be included on the initial written Incident Report as well as being updated as needed on Supplemental Reports. This includes (but is not limited to) costs due to property damage to the operator's facilities and to the property of others, facility repair and replacement, and environmental cleanup and damage. Do NOT include cost of gas lost. Additionally, do NOT include costs incurred for facility repair, replacement, or changes that are NOT related to the incident and which are typically done solely for convenience. An example of doing work solely for convenience is working on non-leaking facilities unearthed because of the incident. Litigation and other legal expenses related to the incident are not reportable.

Operators are to report costs based on the best estimate available at the time a report is submitted. It is likely that an estimate of final repair costs may not be available when the initial report must be submitted (within 30 days, per §191.15). The best available estimate of these costs is to be included in the initial report. For convenience, this estimate can be revised, if needed, when Supplemental Reports are filed for other reasons, however, when no other changes are forthcoming, Supplemental Reports are to be filed as new cost information becomes available. If Supplemental Reports are not submitted for other reasons, a Supplemental Report is to be filed for the purpose of updating or correcting the estimated cost if these costs differ from those already reported by 20 percent or \$20,000, whichever is greater.

**Public and Non-operator private property damage** estimates generally include physical damage to the property of others, the cost of investigation and remediation of a site not owned or operated by the operator, laboratory costs, third party expenses such as engineers or scientists, and other reasonable costs, excluding litigation and other legal expenses related to the incident.

**Operator's property damage** estimates generally include physical damage to the property of the operator or owner company such as the estimated installed or replacement value of the damaged pipe, coating, component, materials, or equipment due to the incident, excluding the cost of any gas lost. Also to be excluded are litigation and other legal expenses related to the incident.

When estimating the **Cost of repairs** to company facilities, the standard shall be the cost necessary to safely restore property to its predefined level of service. Property damage estimates include the cost to access, excavate, and repair the pipeline using methods, materials, and labor necessary to re-establish operations at a predetermined level. These costs may include the cost of repair sleeves or clamps, re-routing of piping, or the removal from service of an appurtenance or pipeline component. When more comprehensive repairs or improvements are justified but not required for continued operation, the cost of such repairs or replacement is not attributable to the incident. Costs associated with improvements to the pipeline or other facilities to mitigate the risk of future failures are not included.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

Estimated cost of **Operator's emergency response** includes emergency response operations necessary to return the incident site to a safe state, actions to minimize the volume of gas released, conduct reconnaissance, and to identify the extent of incident impacts. They include materials, supplies, labor, and benefits. Costs related to stakeholder outreach, media response, etc. are not to be included.

**Other costs** are to include any and all costs which are not included above. Cost of any gas lost is NOT to be reported here, but is to be reported under **Cost of Gas Released**. Operators are to NOT use this category to report any costs which belong in cost categories separately listed above.

**Costs** are to be reported in only one category and are not to be double-counted. Costs can be split between two or more categories when they overlap more than one reporting category.

**Cost of Gas Released**

**Cost of gas released unintentionally** is to be based on the volume reported in PART A, Question 10.

**Cost of gas released during intentional and controlled blowdown** is to be based on the volume reported in PART A, Question 11.

**PART E – ADDITIONAL OPERATING INFORMATION**

**4. Not including pressure reductions required by PHMSA regulations (such as for repairs and pipe movement), was the system or facility relating to the Incident operating under an established pressure restriction with pressure limits below those normally allowed by the MAOP ?**

Consider both voluntary and mandated pressure restrictions. A pressure restriction is to be considered mandated by PHMSA or a state regulator if it was directed by an order or other formal correspondence. Pressure reductions imposed by the operator as a result of regulatory requirements, e.g., a pressure reduction taken because an anomaly identified during an IM assessment could not be repaired within the required schedule (§192.933(d)), is not to be considered mandated by PHMSA.

**5.a. Type of upstream valve used to initially isolate release source**

Identify the type of valve used to initially isolate the release on the upstream side. In general, this will be the first upstream valve selected by the operator to minimize the release volume but may not be the closest to the incident site or the one that was eventually used for the final isolation of the release site for repair.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**5.b. Type of downstream valve used to initially isolate release source**

Identify the type of valve used to initially isolate the release on the downstream side. In general, this will be the first downstream valve selected by the operator to minimize the release volume but may not be the closest to the incident site or the one that was eventually used for the final isolation of the release site for repair.

**5.c. Length of segment isolated between valves (ft)**

Identify the length in feet between the valves identified in Questions 5.a and 5.b that were initially used to isolate the incident area.

**5.f. Function of pipeline system**

**Transmission System** means pipelines that are part of a system whose principal purpose is transmission of gas.

**Transmission Line of Distribution System** means a pipeline that meets the definition of “transmission line” in §192.3 but which is operated as part of a distribution pipeline system. Typically, this includes portions of the distribution pipeline system for which the operating stress level exceeds 20 percent SMYS.

**Type A and Type B Gathering** means a pipeline that transports gas from a current production facility to a transmission line or main and that meets the criteria for either Type A or Type B in §192.8.

**Storage Gathering** means a transmission pipeline that transports gas within a storage field.

**6. Was a Supervisory Control and Data Acquisition (SCADA)-based system in place on the pipeline or facility involved in the Incident?**

This does not mean a system designed or used exclusively for leak detection.

**6.a. Was it operating at the time of the Incident?**

Was the SCADA system in operation at the time of the incident?

**6.b. Was it fully functional at the time of the Incident?**

Was the SCADA system capable of performing all of its functions, whether or not it was actually in operation at the time of the incident? If No, describe functions that were not operational in PART H – Narrative Description of the Incident.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**6.c and d. Did SCADA-based information (such as alarm(s), alert(s), event(s), and/or volume or pack calculations) assist with the detection or confirmation of the Incident?**

Select Yes if SCADA-based information was used to confirm the incident even if the initial report or identification may have come from other sources. Use of SCADA data for subsequent estimation of amount of gas lost, etc. is not considered use to confirm the incident.

Select No if SCADA-based information was not used to assist with identification of the incident.

**7. How was the Incident initially identified for the Operator? (select only one)**

**Controller** means a qualified individual whose function within a shift is to remotely monitor and/or control the operations of entire or multiple sections of pipeline systems via a SCADA system from a pipeline control room, and who has operational authority and accountability for the daily remote operational functions of pipeline systems.

**Local Operating Personnel including contractors** means employees or contractors working on behalf of the operator outside the control room.

**8. Was an investigation initiated into whether or not the controller(s) or control room issues were the cause of or a contributing factor to the Incident?**

Select only one of the choices to indicate whether an investigation was/is being conducted (Yes) or was not conducted (No). If an investigation has been completed, select all the factors that apply in describing the results of the investigation.

**Cause** means an action or lack of action that directly led to or resulted in the pipeline incident.

**Contributing factor** means an action or lack of action that when added to the existing pipeline circumstances heightened the likelihood of the release or added to the impact of the release.

**Controller Error** means that the controller failed to identify a circumstance indicative of a release event, such as an abnormal operating condition, alarm, pressure drop, change in flow rate, or other similar event.

**Incorrect Controller action** means that the controller errantly operated the means for controlling an event. Examples include opening or closing the wrong valve, or hitting the wrong switch or button.



INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**PART F – DRUG & ALCOHOL TESTING INFORMATION**

Requirements for post-incident drug and alcohol tests are in 49 CFR §199.105 and §199.225 respectively. If the incident circumstances were such that tests were not required by these regulations, and if no tests were conducted, select No. If tests were administered, select Yes and report separately the number of operator employees and the number of contractors working for the operator who were tested and the number of each that failed such tests.

**PART G – APPARENT CAUSE**

**PART G – Apparent Cause**

Select the one, single sub-cause listed under sections G1 thru G8 that best describes the apparent cause of the Incident. These sub-causes are contained in the shaded column on the left under each main cause category. Answer the corresponding questions that accompany your selected sub-cause, and describe any secondary, contributing, or root causes of the Incident in PART H – Narrative Description of the Incident.

**G1 – Corrosion Failure**

**Corrosion** includes a release or failure caused by galvanic, atmospheric, stray current, microbiological, or other corrosive action. A corrosion release or failure is not limited to a hole in the pipe or other piece of equipment. If the bonnet or packing gland on a valve or flange on piping deteriorates or becomes loose and leaks due to corrosion and failure of bolts, it is to be classified as Corrosion. (Note: If the bonnet, packing, or other gasket has deteriorated to failure, whether before or after the end of its expected life, but not due to corrosive action, it is to be classified under G6 - Equipment Failure.)

**External Corrosion**

**4.a. Under cathodic protection** means cathodic protection in accordance with §192.455, §192.457, and §192.463. Recognizing that older pipelines may have had cathodic protection added over a number of years, provide an estimate if the exact year cathodic protection started is unknown.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

## **Internal Corrosion**

### **9. Location of corrosion**

A **low point in pipe** includes portions of the pipe contour in which water might settle out. This includes, but is not limited to, the low point of vertical bends at a crossing of a foreign line or road/railroad, etc., an elbow, a drop out or low point drain.

### **10. Was the gas/fluid treated with corrosion inhibitors or biocides?**

Select Yes if corrosion inhibitors or biocides were included in the gas/fluid transported.

### **12. Were cleaning/dewatering pigs (or other operations) routinely utilized?**

### **13. Were corrosion coupons routinely utilized?**

For purposes of these Questions 12 and 13, “routinely” refers to an action that is performed on more than a sporadic or one-time basis as part of a regular program with the intent to ensure that water build-up and/or settling and internal corrosion do not occur.

## **Either External or Internal Corrosion**

### **14.a. If Yes, for each tool used, select type of internal inspection tool and indicate most recent year run**

**Magnetic Flux Leakage Tool** is an in-line inspection tool using an imposed magnetic flux to detect instances of pipe wall loss from corrosion. This includes low- and high-resolution MFL tools. It does not include transverse flux MFL tools, which are a separate choice in this question.

**Ultrasonic** refers to an in-line inspection tool that uses ultrasonic technology to measure wall thickness and detect instances of wall loss.

**Transverse Field/Triaxial** tools are specialized magnetic flux leakage tools that use a flux oriented to improve ability to detect crack anomalies.

**Combination Tool** refers to any in-line inspection tool that uses a combination of these inspection technologies in a single tool.

### **15. Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Incident?**

Information from the initial post-construction hydrostatic test is not to be reported.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**16. Has one or more Direct Assessment been conducted on this segment?**

This refers to direct assessment as defined in §192.903. Instances in which one or more indirect monitoring tools (e.g., close interval survey, DCVG) have been used that might be used as part of direct assessment but which have not been used as part of the direct assessment process defined in §192.903 do NOT constitute a Direct Assessment for purposes of this question.

**G2 – Natural Force Damage**

**Natural Force Damage** includes a release or failure resulting from earth movement, earthquakes, landslides, subsidence, lightning, heavy rains/floods, washouts, flotation, mudslide, scouring, temperature, frost heave, frozen components, high winds, or similar natural causes.

**Earth Movement NOT due to Heavy Rains/Floods** refers to incidents caused by land shifts such as earthquakes, landslides, or subsidence, but not mudslides which are presumed to be initiated by heavy rains or floods.

**Heavy Rains/Floods** refer to all water-related natural force causes. While mudslides involve earth movement, report them here since typically they are an effect of heavy rains or floods.

**Lightning** includes both damage and/or fire caused by a direct lightning strike and damage and/or fire as a secondary effect from a lightning strike in the area. An example of such a secondary effect would be a forest fire started by lightning that results in damage to a pipeline system asset which results in an incident. (See also the discussion of “secondary ignition” under the *General Instructions*.)

**Temperature** includes weather-related temperature and thermal stress effects, either heat or cold, where temperature was the initiating cause.

**Thermal stress** refers to mechanical stress induced in a pipe or component when some or all of its parts are not free to expand or contract in response to changes in temperature.

**Frozen components** would include incidents where components are inoperable because of freezing and those due to cracking of a piece of equipment due to expansion of water during a freeze cycle.

**High Winds** includes damage caused by wind-induced forces. Select this category if the damage is due to the force of the wind itself. Damage caused by impact from objects blown by wind would be reported under G4 - Other Outside Force Damage.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**Other Natural Force Damage.** Select this sub-cause for types of Natural Force Damage not included otherwise, and describe in the space provided. If necessary, provide additional explanation in PART H – Narrative Description of the Incident.

Answer Questions 6 and 6.a if the incident occurred in conjunction with an extreme weather event such as a hurricane, tropical storm, or tornado. If an extreme weather event related to something other than a hurricane, tropical storm, or tornado was involved, indicate Other and describe the event in the space provided.

### **G3 – Excavation Damage**

**Excavation Damage** includes a release or failure resulting directly from excavation damage by operator's personnel (oftentimes referred to as “first party” excavation damage) or by the operator's contractor (oftentimes referred to as “second party” excavation damage) or by people or contractors not associated with the operator (oftentimes referred to as “third party” excavation damage). Also, this section includes a release or failure determined to have resulted from previous damage due to excavation activity. For damage from outside forces OTHER than excavation which results in a release, use G2 - Natural Force Damage or G4 - Other Outside Force, as appropriate. Also, for a strike, physical contact, or other damage to a pipeline or facility that apparently was NOT related to excavation and that results in a delayed or eventual release, report the incident under G4 as “Previous Mechanical Damage NOT related to Excavation.”

**Excavation Damage by Operator (First Party)** refers to incidents caused as a result of excavation by a direct employee of the operator.

**Excavation Damage by Operator's Contractor (Second Party)** refers to incidents caused as a result of excavation by the operator's contractor or agent or other party working for the operator.

**Excavation Damage by Third Party** refers to incidents caused by excavation damage resulting from actions by personnel or other third parties not working for or acting on behalf of the operator or its agent.

**Previous Damage due to Excavation Activity** refers to incidents that were apparently caused by prior excavation activity and that then resulted in a delayed or eventual release. Indications of prior excavation activity might come from the condition of the pipe when it is examined, or from records of excavation at the site, or through metallurgical analysis or other inspection and/or testing methods. Dents and gouges in the 10:00-to-2:00 o'clock positions on the pipe, for instance, may indicate an earlier strike, as might marks from the bucket or tracks of an earth moving machine or similar pieces of equipment.

**1.a. If Yes, for each tool used, select type of internal inspection tool and indicate most recent year run**

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**Magnetic Flux Leakage Tool** is an in-line inspection tool using an imposed magnetic flux to detect instances of pipe wall loss from corrosion. Includes low- and high-resolution MFL tools. Does not include transverse flux MFL tools, which are a separate choice in this question.

**Ultrasonic** refers to an in-line inspection tool that uses ultrasonic technology to measure wall thickness and detect instances of wall loss.

**Transverse Field/Triaxial** tools are specialized magnetic flux leakage tools that use a flux oriented to improve ability to detect crack anomalies.

**Combination Tool** refers to any in-line inspection tool that uses a combination of these inspection technologies in a single tool.

**3. Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Incident?**

Information from the initial post-construction hydrostatic test is not to be reported.

**4. Has one or more Direct Assessment been conducted on this segment?**

This refers to direct assessment as defined in §192.903. Instances in which one or more indirect monitoring tools (e.g., close interval survey, DCVG) have been used that might be used as part of direct assessment but which were not used as part of the direct assessment process defined in §192.903 do not constitute a Direct Assessment for purposes of this question.

**6. – 17.** Complete these questions for any excavation damage sub-cause. Instructions for answering these questions can be found at CGA's web site, <https://www.damagereporting.org/dr/control/userGuide.do>.

**G4 – Other Outside Force Damage**

**Other Outside Force Damage** includes, but are not limited to, a release or failure resulting from non-excavation-related outside forces, such as nearby industrial, man-made, or other fire or explosion; damage by vehicles or other equipment; failures due to mechanical damage; and, intentional damage including vandalism and terrorism.

**Nearby Industrial, Man-made or other Fire/Explosion as Primary Cause of Incident** applies to situations where the fire occurred before - and *caused* - the release. (See also the discussion of “secondary ignition” under the *General Instructions*.) Examples of such an incident would be an explosion or fire that originated at a neighboring facility or installation (chemical plant, tank farm, or other industrial facility) or structure, debris, or brush/trees that results in a release at the

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

operator's pipeline or facility. This includes forest, brush, or ground fires that are caused by human activity. If the fire, however, is known to have been started as a result of a lightning strike, the incident's cause is to be classified under G2 - Natural Force Damage. Arson events directed at harming the pipeline or the operator are to be reported as G4 - Intentional Damage (see below). This sub-cause is NOT to be used if the release occurred first and then the gas released from the pipeline system or facility ignited.

**Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation.** An example of this sub-cause would be a stopple tee that releases gas when damaged by a pickup truck maneuvering near the pipeline. Other motorized vehicles or equipment include tractors, backhoes, bulldozers and other tracked vehicles, and heavy equipment that can move. Include under this sub-cause incidents caused by vehicles operated by the pipeline operator, the pipeline operator's contractor, or a third party and specify the vehicle/equipment operator's affiliation from one of these three groups. Pipeline incidents resulting from vehicular traffic loading or other contact are to also be reported in this category. If the activity that caused the incident involved digging, drilling, boring, grading, cultivation or similar excavation activities, report under G3 - Excavation Damage.

**Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipment or Vessels Set Adrift or Which Have Otherwise Lost Their Mooring.** This sub-cause includes impacts by maritime equipment or vessels (including their anchors or anchor chains or other attached equipment) that have lost their moorings and are carried into the pipeline facility by the current. This sub-cause also includes maritime equipment or vessels set adrift as a result of severe weather events and carried into the pipeline facility by waves, currents, or high winds. In such cases, also indicate the type of severe weather event. Do NOT report in this sub-cause incidents which are caused by the impact of maritime equipment or vessels while they are engaged in their normal or routine activities; such incidents are to be reported as "Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation" under this section G4 (see below) so long as those activities are not excavation activities. If those activities are excavation activities such as dredging or bank stabilization or renewal, the incident is to be reported under G3 - Excavation Damage.

**Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation.** This sub-cause includes incidents due to shrimping, purseining, oil drilling, or oilfield workover rigs, including anchor strikes, and other routine or normal maritime-related activities UNLESS: the movement of the maritime asset was inadvertent and due to a severe weather event (this type of incident is to be reported under "Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipment or Vessels Set Adrift or Which Have Otherwise Lost Their Mooring" in this section G4); or, the incident was caused by excavation activity such as dredging of waterways or bodies of water (this type of incident is to be reported under G3 - Excavation Damage).

**Electrical Arcing from Other Equipment or Facility** such as a pole transformer or adjacent facility's electrical equipment.

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**Previous Mechanical Damage NOT Related to Excavation.** This sub-cause covers incidents where damage occurred at some time prior to the release that was apparently NOT related to excavation activities, and would include prior outside force damage of an unknown nature, prior natural force damage, prior damage from other outside forces, and any other previous mechanical damage other than that which was apparently related to prior excavation. Incidents resulting from previous damage sustained during construction, installation, or fabrication of the pipe or weld from which the release eventually occurred are to be reported under G5 - Material Failure of Pipe or Weld. (See this sub-cause for typical indications of previous construction, installation, or fabrication damage.) Incidents resulting from previous damage sustained as a result of excavation activities should be reported under G3 – Previous Damage due to Excavation Activity. (See this sub-cause for typical indications of prior excavation activity.)

### **Intentional Damage**

**Vandalism** means willful or malicious destruction of the operator's pipeline facility or equipment. This category would include arson, pranks, systematic damage inflicted to harass the operator, motor vehicle damage that was inflicted intentionally, and a variety of other intentional acts. (See also the discussion of "secondary ignition" under the *General Instructions*.)

**Terrorism**, per 28 CFR §0.85 General Functions, includes the unlawful use of force and violence against persons or property to intimidate or coerce a government, the civilian population, or any segment thereof, in furtherance of political or social objectives. Operators selecting this item are encouraged to also notify the FBI.

**Theft of commodity or Theft of equipment** means damage by any individual or entity, by any mechanism, specifically to steal, or attempt to steal, the transported gas or pipeline equipment.

**Other** Describe in the space provided and, if necessary, provide additional explanation in PART H – Narrative Description of the Incident.

**Other Outside Force Damage.** Select this sub-cause for types of Other Outside Force Damage not included otherwise, and describe in the space provided. If necessary, provide additional explanation in PART H – Narrative Description of the Incident.

### **G5 – Material Failure of Pipe or Weld**

Use this section to report material failures only if "Item Involved in Incident" (PART C, Question 3) is "**Pipe**" (whether "**Pipe Body**" or "**Pipe Seam**") or "**Weld**." Indicate how the sub-cause was determined or if the sub-cause is still being investigated.



INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

This section includes releases in or failures from defects or anomalies within the material of the pipe body or within the pipe seam or other weld due to faulty manufacturing procedures, defects resulting from poor construction, installation, or fabrication practices, and in-service stresses such as vibration, fatigue, and environmental cracking.

**Construction-, Installation-, or Fabrication-related** includes a release or failure caused by a dent, gouge, excessive stress, or some other defect or anomaly introduced during the process of constructing, installing, or fabricating pipe and pipe welds, including welding or other activities performed at the facility. Included are releases from or failures of wrinkle bends, field welds, and damage sustained in transportation to the construction or fabrication site. Not included are failures due to seam defects, which are to be reported as Original Manufacturing-related (see below).

**Original Manufacturing-related (NOT girth welds or other welds formed in the field)** includes a release or failure caused by a defect or anomaly introduced during the process of manufacturing pipe, including seam defects and defects in the pipe body. This option is not appropriate for wrinkle bends, field welds, girth welds, or other joints fabricated in the field. Use this option for failures such as those due to defects of the longitudinal weld or inclusions in the pipe body.

If **Construction-, Installation-, or Fabrication-related**, or **Original Manufacturing-related** is selected, then select any contributing factors. Examples of Mechanical Stress include failures related to overburden or loss of support.

#### **G6 – Equipment Failure**

This section applies to failures of items other than “Pipe” (“Pipe Body” or “Pipe Seam”) or “Weld”.

**Equipment Failure** includes a release or failure resulting from: malfunction of control/relief equipment including valves, regulators, or other instrumentation; failures of compressors, or compressor-related equipment; failures of various types of connectors, connections, and appurtenances; failures of the body of equipment, vessel plate, or other material (including those caused by construction-, installation-, or fabrication-related and original manufacturing-related defects or anomalies); and, all other equipment-related failures.

**Malfunction of Control/Relief Equipment.** Examples of this type of incident cause include: overpressurization resulting from malfunction of a control or alarm device; malfunction of a relief valve; valves failing to open or close on command; or valves which opened or closed when not commanded to do so. If overpressurization or some other aspect of this incident was caused by incorrect operation, the incident is to be reported under G7 - Incorrect Operation.



INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

**ESD System Failure** means failure of an emergency shutdown system.

**Other Equipment Failure.** Select this sub-cause for types of Equipment Failure not included otherwise, and describe in the space provided. If necessary, provide additional explanation in PART H – Narrative Description of the Incident.

### **G7 – Incorrect Operation**

**Incorrect Operation** includes a release or failure resulting from operating, maintenance, repair, or other errors by facility personnel, including, but not limited to improper valve selection or operation, inadvertent overpressurization, or improper selection or installation of equipment.

**Other Incorrect Operation.** Select this sub-cause for types of Incorrect Operation not included otherwise, and describe in the space provided. If necessary, provide additional explanation in PART H – Narrative Description of the Incident.

### **G8 – Other Incident Cause**

This section is provided for incidents whose cause is currently unknown, or where investigation into the cause has been exhausted and the final judgment as to the cause remains unknown, or where a cause has been determined which does not fit into any of the main cause categories listed in sections G1 thru G7.

If the incident cause is known but doesn't fit into any category in sections G1 thru G7, select **Miscellaneous** and enter a description of the incident cause, continuing with a more thorough explanation in PART H - Narrative Description of the Incident.

If the incident cause is unknown at the time of filing this report, select **Unknown** in this section and specify one reason from the accompanying two choices. Once the operator's investigation into the incident cause is completed, the operator is to file a Supplemental Report as soon as practicable either reporting the apparent cause or stating definitively that the cause remains Unknown, along with any other new, updated, and/or corrected information pertaining to the incident. This Supplemental Report is to include all new, updated, and/or corrected information pertaining to *all* portions of the report form known at this time, and not only that information related to the apparent cause.

**Important Note:** Whether the investigation is completed or not, or if the cause continues to be unknown, Supplemental Reports are to be filed reflecting new, updated, and/or corrected information as and when this information becomes available. In those cases in which investigations are ongoing for an extended period of time, operators are to file a Supplemental Report within one year of their last report for the incident even in those instances where no new,

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (Rev. 06-2011)  
INCIDENT REPORT – NATURAL AND OTHER GAS  
TRANSMISSION AND GATHERING PIPELINE SYSTEMS

---

updated, and/or corrected information has been obtained, with an explanation that the cause remains under investigation in PART H – Narrative Description of Incident. Additionally, final determination of the apparent cause and/or closure of the investigation does NOT preclude the need for the operator's filing of additional Supplemental Reports as and when new, updated, and/or corrected information becomes available.

**PART H – NARRATIVE DESCRIPTION OF THE INCIDENT**

Concisely describe the incident, including the facts, circumstances, and conditions that may have contributed directly or indirectly to causing the incident. Include secondary, contributing, or root causes when possible, or any other factors associated with the cause that are deemed pertinent. Use this section to clarify or explain unusual conditions, to provide sketches or drawings, and to explain any estimated data. Operators submitting reports on-line will be afforded the opportunity to attach/upload files (in PDF or JPG format only) containing sketches, drawings, or additional data.

If you selected Miscellaneous in section G8, the narrative is to describe the incident in detail, including all known or suspected causes and possible contributing factors.

**PART I – PREPARER AND AUTHORIZED SIGNATURE**

The Preparer is the person who compiled the data and prepared the responses to the report and who is to be contacted for more information (preferably the person most knowledgeable about the information in the report or who knows how to contact the person or persons most knowledgeable). Enter the Preparer's e-mail address if the Preparer has one, and the phone and fax numbers used by the Preparer.

An Authorized Signature must be obtained from an officer, manager, or other person whom the operator has designated to review and approve the report. This individual is responsible for assuring the accuracy and completeness of the reported data. In addition to their title, a phone number and email address are to be provided for the individual signing as the Authorized Signature.