



U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

INCIDENT REPORT – LIQUEFIED NATURAL GAS (LNG) FACILITIES

Report Date _____

No. _____

(DOT Use Only)

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INSTRUCTIONS

Important: Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the PHMSA Pipeline Safety Community Web Page at <http://www.phmsa.dot.gov/pipeline/library/forms>.

PART A – KEY REPORT INFORMATION

Report Type: (select all that apply) Original Supplemental Final

Last Revision Date: _____

A1. Operator's OPS-issued Operator Identification Number (OPID): / / / / / / / /

A2. Name of Operator: _____

A3. Address of Operator:

A3a. _____
(Street Address)

A3b. _____
(City)

A3c. State: / / /

A3d. Zip Code: / / / / / / - / / / / /

A4. Earliest local time (24-hr clock) and date an incident reporting criteria was met:

/ / / / / / / / / / / / / /
Hour Month Day Year

A4a. Time Zone for local time (select only one)

- Alaska Eastern Central
- Hawaii-Aleutian
- Mountain Pacific.

A4b. Daylight Saving in effect?

- Yes No

A4c. reserved

A5. Initial Operator National Response Center Report Number:

/ / / / / / / /

A6. Local time (24-hr clock) and date of initial telephonic report to the National Response Center (if reported):

/ / / / / / / / / / / / / /
Hour Month Day Year

A6a. Additional NRC Report numbers submitted by the operator: _____

A7. Incident resulted from:

- Unintentional release of commodity
- Intentional release of commodity
- Emergency shutdown
- Reasons other than the above ⇨ *Describe: _____

A8. Commodity released: (select only one, based on predominant volume released)

- No release of commodity involved
- Natural Gas while being handled in gaseous phase
- LNG (Liquefied Natural Gas) while being handled in liquid phase
- LPG (Liquefied Petroleum Gas) while being handled in liquid phase
- Petroleum Gas while being handled in gaseous phase
- Refrigerant Gas
- Other Commodity ⇨ *Name: _____

A9. Estimated volume of commodity released unintentionally: / / / / / / / / / / Thousand Cubic Feet (MCF)

A10. Estimated volume of intentional and controlled release/blowdown: / / / / / / / / / / Thousand Cubic Feet (MCF)

A11. Estimated volume of liquid spilled to the ground: / / / / / / / / / / Bbls

A12. Were there fatalities? Yes No

If Yes, specify the number in each category:

A12a. Operator employees / / / / /
A12b. Contractor employees working for the Operator / / / / /
A12c. Non-Operator emergency responders / / / / /
A12d. General public / / / / /
A12e. Total fatalities (sum of above) / / / / /

A13. Were there injuries requiring inpatient hospitalization? Yes No

If Yes, specify the number in each category:

A13a. Operator employees / / / / /
A13b. Contractor employees working for the Operator / / / / /
A13c. Non-Operator emergency responders / / / / /
A13d. General public / / / / /
A13e. Total injuries (sum of above) / / / / /

A14. Was the LNG Facility shut down due to the incident?

Yes No Explain: _____

If Yes, complete Questions 14a and 14b: (use local time, 24-hr clock)

A14a. Local time and date of shutdown / / / / / / / / / / /
Hour Month Day Year

A14b. Local time LNG Facility restarted / / / / / / / / / / /
Hour Month Day Year Still shut down* (*Supplemental Report required)

A15. Was there an ignition? Yes No

If A15. is Yes, answer A15a. and A16:

A15a. Estimated volume of gas consumed by fire (MCF): (must be less than or equal to A9.)

A16. Was there an explosion? Yes No

A17. Number of general public evacuated: / / / / / / / / / / /

A18. Number of operator/contractor personnel evacuated: / / / / / / / / / / /

Injured Persons not included in A13 The number of persons injured, admitted to a hospital, and remaining in the hospital for at least one overnight are reported in A13. If a person is included in A13, do not include them in A19.

A19. Estimated number of persons with injuries requiring treatment in a medical facility but not requiring overnight in-patient hospitalization: _____

If a person is included in A19, do not include them in A20.

A20. Estimated number of persons with injuries requiring treatment by EMTs at the site of incident: _____

Buildings Affected

A21. Number of residential buildings affected (evacuated or required repair or gas service interrupted): _____

A22. Number of business buildings affected (evacuated or required repair or gas service interrupted): _____

PART B - ADDITIONAL FACILITY INFORMATION

B1. Facility Information: (select Facility/Plant from dropdown list)

LNG FACILITY / PLANT

Name of LNG Plant / Facility _____

NPMS LNG ID _____

Plant / Facility Status _____

Plant / Facility Location State / / / /

Process

Liquefaction/Vaporization Rate (MMCF/D) at the time of the Incident _____

Number of Vaporizers in service at the time of the Incident _____

Total Capacity (MMCF/D) _____

LNG Source (list all that apply) _____

Interstate or Intrastate _____

LNG Storage

Number of LNG Tanks: _____

Volume of LNG in Storage at the time of the Incident (Bbls) _____

B2. Type of LNG Plant / Facility: *(select all that apply)*

- Base Load
- Peak Shaving
- Satellite
- Mobile / Temporary *(select the following based on use at time of Incident)*
 - Intrastate
 - Interstate
- Other ⇨ *Describe: _____

B3. Function of LNG Plant / Facility at the time and date of the Incident: *(select all that apply)*

- Marine Terminal *(select one or both)*
 - Import Terminal
 - Export Terminal
- Storage *(select one or both)*
 - With Liquefaction
 - Without Liquefaction
- Stranded Utility
- Vehicular Fuel
- Nitrogen Rejection Unit or Other Special Use ⇨ *Describe: _____

B4. Item involved in Incident: *(select only one)*

- Pump
- Compressor
- Vaporizer
- Cold Box
- High Pressure Hose/Line
- Break-away Coupling
- Emergency Shut-Off Valve (ESV)
- In-plant Piping
- Storage Tank / Vessel
- Meter / Regulator / Control Valve
- Relief Valve
- Strainer / Filter
- Instrumentation / Sensor Line
- Flange / Gasket
- Weld
- Other ⇨ *Describe: _____
- No item involved

PART C – ADDITIONAL CONSEQUENCE INFORMATION

C1. Estimated Property Damage:

C1a. Estimated cost of public and non-Operator private property damage	\$ / / / / / / / / / /
C1b. Estimated cost of Operator's property damage & repairs	\$ / / / / / / / / / /
C1c. Estimated cost of emergency response	\$ / / / / / / / / / /
C1d. Estimated other costs	\$ / / / / / / / / / /
Describe _____	
C1e. Total estimated property damage (sum of above)	\$ / / / / / / / / / /
Cost of Commodity Released	
C1f. Estimated cost of commodity released unintentionally	\$ / / / / / / / / / /
C1g. Estimated cost of commodity released during intentional and controlled blowdown	\$ / / / / / / / / / /
C1h. Total estimated cost of commodity released (sum of 1.f & 1.g above)	\$ / / / / / / / / / /
C1i. Estimated Total Cost (sum of 1.e and 1.h above)	\$ / / / / / / / / / /

PART D – ADDITIONAL OPERATING INFORMATION

D1. Was a computerized Control System in place?

No

Yes ⇨

1a. Was it operating at the time of the Incident?

Yes

No

1b. Was it fully functional at the time of the Incident?

Yes

No

D2. What was the Operator's initial indication of the Failure? (*select only one*)

Computerized Control System ((such as alarm(s), alert(s), event(s), leak detection, temperature, pressure, etc.)

Gas Detectors

Low Temperature Sensors

Flame Detectors

Static shut-in test or other pressure or leak test

Local operating personnel, including contractors working for the Operator

Remote operating personnel

Notification from Public

Other ⇨ * _____ (*Explain in PART G Narrative*)

PART E – DRUG & ALCOHOL TESTING INFORMATION

E1. As a result of this Incident, were any Operator employees tested under the post-accident drug and alcohol testing requirements of DOT's Drug & Alcohol Testing regulations?

No

Yes

E1a. Specify how many were tested: / / /

E1b. Specify how many failed: / / /

E2. As a result of this Incident, were any Operator contractor employees tested under the post-accident drug and alcohol testing requirements of DOT's Drug & Alcohol Testing regulations?

No

Yes

E2a. Specify how many were tested: / / /

E2b. Specify how many failed: / / /

PART F – APPARENT CAUSE **Select only one APPARENT Cause of the Incident, and answer any questions on the right or below as indicated. Enter secondary, contributing, or root causes of the Incident in Part I – Contributing Factors.*

F1 - Corrosion Failure

External Corrosion

Internal Corrosion

F2 - Natural Force Damage

Earth Movement, NOT due to Heavy Rains/Floods Includes earthquakes, subsidence, landslide, or other geological events

Heavy Rains/Floods Includes washouts/scouring, flotation, mudslide, and other rain- or floodwater-caused events.

Lightning Includes a direct lightning strike or secondary impact such as resulting nearby fires or wildfires

Temperature (Weather-related) Includes thermal stress, frost heave, frozen components, and other weather-related temperature effects

High Winds

Other Natural Force Damage 1. Describe: _____

Complete the following if any Natural Force Damage sub-cause is selected.

2. Were the natural forces causing the Incident generated in conjunction with an extreme weather event? Yes No

2a. If Yes, specify: (*select all that apply*)

Hurricane

Tropical Storm

Tornado

Other _____

F3 – Excavation Damage

- Excavation Damage by Operator (First Party)
- Excavation Damage by Operator’s Contractor (Second Party)
- Excavation Damage by Third Party
- Previous Damage due to Excavation Activity

F4 - Other Outside Force Damage

- Nearby Industrial, Man-made, or Other Fire/Explosion as Primary Cause of Incident
- Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation
- Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipment or Vessels Set Adrift or Which Have Otherwise Lost Their Mooring
- Electrical Arcing from Other Equipment or Facility
- Previous Mechanical Damage NOT Related to Excavation
- Intentional Damage

1. Vehicle/Equipment operated by: *(select only one)*
 Operator Operator’s Contractor Third Party
2. Select one or more of the following IF an extreme weather event was a factor: Hurricane Tropical Storm Tornado
 Heavy Rains/Flood Other _____
3. Specify:
 Vandalism Terrorism
 Theft of commodity Theft of equipment
 Other _____
4. Did the Intentional Damage involve a breach of security?
 No
 Yes *(Explain fully in the PART G Narrative)*
5. Describe: _____

- Other Outside Force Damage

F5 - Material Failure of Pipe or Weld Use this section to report material failures ONLY IF the “Item Involved in Incident” (from PART B, Question 4) is “In-plant Piping” or “Weld”.

1. The sub-cause selected below is based on the following: *(select all that apply)*

- Field Examination Determined by Metallurgical Analysis Other Analysis _____
- Sub-cause is Tentative or Suspected; Still Under Investigation *(Supplemental Report required)*

- Construction-, Installation-, or Fabrication-related
 - Original Manufacturing-related *(NOT girth weld or other welds formed in the field)*
 - Low Temperature Embrittlement *(due to a process fluid)*
2. Was insulation degradation a factor in this failure? Yes No

F6 - Equipment Failure

- Malfunction of Control/Relief Equipment
- Pump/Compressor or Pump/Compressor-related Equipment
- Threaded Connection/Coupling Failure
- Non-threaded Connection Failure
- Defective or Loose Tubing or Fitting
- Failure of Equipment Body *(except Pump/Compressor), Vessel Plate, or other Material*
- Other Equipment Failure 1. Describe: _____

Complete the following if any Equipment Failure sub-cause is selected.

2. Did this failure involve Low Temperature Embrittlement due to process fluids? Yes No
3. Was insulation degradation a factor in this failure? Yes No

F7 - Incorrect Operation

- Damage by Operator or Operator's Contractor NOT Related to Excavation and NOT due to Motorized Vehicle/Equipment Damage**
- Storage Tank or Pressure Vessel Allowed or Caused to Overfill or Overpressure**
- Valve Left or Placed in Wrong Position, but NOT Resulting in an Overfill or Overpressure**
- Pipe or Equipment Overpressured**
- Equipment Not Installed Properly**
- Wrong Equipment Specified or Installed**
- Other Incorrect Operation** 1. Describe: _____

Complete the following if any Incorrect Operation sub-cause is selected.

2. Was this Incident related to: *(select all that apply)*

- Inadequate procedure
- No procedure established
- Failure to follow procedure
- Other:* _____

F8 – Other Incident Cause

- Miscellaneous** 1. Describe: _____
- Unknown** 2. Specify: Investigation complete, cause of Incident unknown
 Still under investigation, cause of Incident to be determined* *(*Supplemental Report required)*

PART I – CONTRIBUTING FACTORS The Apparent Cause of the accident is contained in Part F. Do not report the Apparent Cause again in this Part I. If Contributing Factors were identified, select all that apply below and explain each in the Narrative

External Corrosion

- External Corrosion, Galvanic
- External Corrosion, Atmospheric
- External Corrosion, Stray Current Induced
- External Corrosion, Microbiologically Induced
- External Corrosion, Selective Seam

Internal Corrosion

- Internal Corrosion, Corrosive Commodity
- Internal Corrosion, Water drop-out/Acid
- Internal Corrosion, Microbiological
- Internal Corrosion, Erosion

Natural Forces

- Earth Movement, NOT due to Heavy Rains/Floods
- Heavy Rains/Floods
- Lightning
- Temperature
- High Winds
- Snow/Ice
- Tree/Vegetation Root

Excavation Damage

- Excavation Damage by Operator (First Party)
- Excavation Damage by Operator's Contractor (Second Party)
- Excavation Damage by Third Party
- Previous Damage due to Excavation Activity

Other Outside Force

- Nearby Industrial, Man-made, or Other Fire/Explosion
- Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation
- Damage by Boats, Barges, Drilling Rigs, or Other Adrift Maritime Equipment
- Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation
- Electrical Arcing from Other Equipment or Facility
- Previous Mechanical Damage NOT Related to Excavation
- Intentional Damage
- Other underground facilities buried within 12 inches of the failure location

Pipe/Weld Failure

- Design-related
- Construction-related
- Installation-related
- Fabrication-related
- Original Manufacturing-related

Equipment Failure

- Malfunction of Control/Relief Equipment
- Threaded Connection/Coupling Failure
- Non-threaded Connection Failure
- Valve Failure

Incorrect Operation

- Damage by Operator or Operator's Contractor NOT Excavation and NOT Vehicle/Equipment Damage
- Valve Left or Placed in Wrong Position, but NOT Resulting in Overpressure
- Pipeline or Equipment Overpressured
- Equipment Not Installed Properly
- Wrong Equipment Specified or Installed
- Inadequate Procedure
- No procedure established
- Failure to follow procedures

