



## ACCIDENT REPORT – HAZARDOUS LIQUID PIPELINE SYSTEMS

Report Date     DOR    

No.     RPTID      
(DOT Use Only)

### 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 Office Of Pipeline Safety Web Page at <http://ops.dot.gov>. **REPORT\_TYPE**

### PART A – GENERAL REPORT INFORMATION

Check:  Original Report  Supplemental Report  Final Report

1. a. Operator's OPS 5-digit Identification Number (if known)     OPERATOR\_ID     **OWNER\_OPERATOR\_ID**  
 2. b. If Operator does not own the pipeline, enter Owner's OPS 5-digit Identification Number (if known)       
 c. Name of Operator     NAME      
 d. Operator street address     OPSTREET      
 e. Operator address     OPCITY    OPCOUNTY    OPSTATE    OPZIP      
 City, County, State and Zip Code

**IMPORTANT: IF THE SPILL IS SMALL, THAT IS, THE AMOUNT IS AT LEAST 5 GALLONS BUT IS LESS THAN 5 BARRELS, COMPLETE THIS PAGE ONLY, UNLESS THE SPILL IS TO WATER AS DESCRIBED IN 49 CFR §195.52(A)(4) OR IS OTHERWISE REPORTABLE UNDER §195.50 AS REVISED IN CY 2001.**

2. Time and date of the accident **IDATE**  
     /      /      **IHOURL**      /      /      /       
 hr. month day year
3. Location of accident  
 (If offshore, do not complete a through d. See Part C.1)
- a. Latitude: **LATITUDE** Longitude: **LONGITUDE**  
 (if not available, see instructions for how to provide specific location)
- b. **ACCITY** **ACCOUNTY**  
 City, and County or Parish
- c. **ACSTATE** **ACZIP**  
 State and Zip Code
- d. **MPVST** **SURNO**  
 Mile post/valve station  or survey station no.   
 (whichever gives more accurate location)
4. Telephone report **TELNRN** **TELDT**  
     /      /      /      /      /      /      /       
 NRC Report Number month day year

#### 5. Losses (Estimated)

##### Public/Community Losses reimbursed by operator:

- Public/private property damage **\$PPPRP**  
 Cost of emergency response phase **\$EMRPRP**  
 Cost of environmental remediation **\$ENVPRP**  
 Other Costs **\$OPCPRP**  
 (describe) **OPCPRPO**

##### Operator Losses:

- Value of product lost **\$PRODPRP**  
 Value of operator property damage **\$OPPRP**  
 Other Costs **\$OOPPRP**  
 (describe) **OOPPRPO**

**Total Costs** **\$TOTAL\_COST**

6. Commodity Spilled  Yes  No **SPILLED**  
 (If Yes, complete Parts a through c where applicable)
- a. Name of commodity spilled **COMM**
- b. Classification of commodity spilled: **CLASS\_TEXT**  
 HVLs /other flammable or toxic fluid which is a gas at ambient conditions  
 CO<sub>2</sub>/ N<sub>2</sub> or other non-flammable, non-toxic fluid which is a gas at ambient conditions  
 Gasoline, diesel, fuel oil or other petroleum product which is a liquid at ambient conditions  
 Crude oil

#### c. Estimated amount of commodity involved :

- SPUNIT\_TEXT**  
 Barrels  
 Gallons (check only if spill is less than one barrel)

Amounts:  
 Spilled : **LOSS**  
 Recovered: **RECOV**

### CAUSES FOR SMALL SPILLS ONLY (5 gallons to under 5 barrels) :

(For large spills [5 barrels or greater] see Part H)

- CAUSE**  
 Corrosion  Natural Forces  Excavation Damage  Other Outside Force Damage  
 Material and/or Weld Failures  Equipment  Incorrect Operation  Other

### PART B – PREPARER AND AUTHORIZED SIGNATURE

**PNAME** **PHONE**  
 (type or print) Preparer's Name and Title Area Code and Telephone Number

**PEMAIL**  
 Preparer's E-mail Address Area Code and Facsimile Number

Authorized Signature (type or print) Name and Title Date Area Code and Telephone Number

**PART C – ORIGIN OF THE ACCIDENT (Check all that apply)**

1. Additional location information  
 a. Line segment name or ID LINE\_SEG  
 b. Accident on Federal land other than Outer Continental Shelf  Yes  No **IFED**  
 c. Is pipeline interstate?  Yes  No **INTER**

2. Location of system involved (check all that apply)  
 Operator's Property **OPPROP**  
 Pipeline Right of Way **PIPEROW**  
 High Consequence Area (HCA)? **HCA**  
 Describe HCA HCADESC

3. Part of system involved in accident **SYSPRT\_TEXT**  
 Above Ground Storage Tank  
 Cavern or other below ground storage facility  
 Pump/meter station; terminal/tank farm piping and equipment, including sumps  
 Other Specify: SYSPRTO  
 Onshore **pipeline**, including valve sites  
 Offshore **pipeline**, including platforms

*If failure occurred on Pipeline, complete items a - g:*

4. Failure occurred on **FAIL\_OC\_TEXT**  
 Body of Pipe  Pipe Seam  Scraper Trap  
 Pump  Sump  Joint  
 Component  Valve  Metering Facility  
 Repair Sleeve  Welded Fitting  Bolted Fitting  
 Girth Weld  
 Other (specify) FAIL\_OCO

Year the component that failed was installed: PRTYR / / / /

5. Maximum operating pressure (MOP)  
 a. Estimated pressure at point and time of accident:  
INC\_PRS PSIG  
 b. MOP at time of accident:  
MOP PSIG  
 c. Did an overpressurization occur relating to the accident?  
 Yes  No **OPRS**

**OFFSHORE**  
 Offshore:  Yes  No (complete d if offshore)  
 d. Area OFFAREA Block # BNUMB  
 State  / / / or Outer Continental Shelf  **OC**  
**OFFST**

a. Type of leak or rupture **LRTYPE\_TEXT**  
 Leak:  Pinhole  Connection Failure (complete sec. H5)  
 Puncture, diameter (inches) LEAK\_TEXT **PUNC\_DIAM**  
 Rupture:  Circumferential – Separation  
 Longitudinal – Tear/Crack, length (inches) RUPTURE\_TEXT **RUPLN**  
 Propagation Length, total, both sides (feet) PROPLN  
 N/A  
 Other LRTYPEO

b. Type of block valve used for isolation of immediate section:  
 Upstream: **M**  Manual **A**  Automatic **R**  Remote Control  
**U** **BLKV \*** **C**  Check Valve  
 Downstream:  Manual **A**  Automatic **R**  Remote Control  
**D** **BLKV \*** **C**  Check Valve

c. Length of segment isolated SEGISO ft  
 d. Distance between valves VLVDIST ft **SEGCONF**  
 e. Is segment configured for internal inspection tools?  Yes  No  
 f. Had there been an in-line inspection device run at the point of failure?  Yes  No  Don't Know **INLINE\_TEXT**  
 Not Possible due to physical constraints in the system  
 g. If Yes, type of device run (check all that apply)  
 High Resolution Magnetic Flux tool Year run: DRHRMF  
 Low Resolution Magnetic Flux tool Year run: DRLRMF  
 UT tool **DRUT** Year run: DRUTY  
 Geometry tool **DRGEO** Year run: DRGEOY  
 Caliper tool **DRCAL** Year run: DRCALY  
 Crack tool **DRCRK** Year run: DRCRKY  
 Hard Spot tool **DRHARD** Year run: DRHARDY  
 Other tool **DROTH** Year run: DROTHY

**PART D – MATERIAL SPECIFICATION**

1. Nominal pipe size (NPS) NPS / / / / / in.  
 2. Wall thickness WALLTHK / / / / / in.  
 3. Specification SPEC SMYS / / / / /  
 4. Seam type SEAM **SMYS**  
 5. Valve type VALVE **MANYR**  
 6. Manufactured by MANU in year / / / / /

**PART E – ENVIRONMENT**

1. Area of accident **LOCLK\_TEXT**  
 In open ditch  
 Under pavement  Above ground  
 Underground  Under water  
 Inside/under building  Other LOCLKO

2. Depth of cover: DEPTH\_COV inches

**PART F – CONSEQUENCES**

1. Consequences (check and complete all that apply)  
 a. Fatalities Injuries  
 Number of operator employees: EFAT EINJ  
 Contractor employees working for operator: NFAT NINJ  
 General public: GPAT GPINJ  
**Totals:** FATAL INJURE  
 b. Was pipeline/segment shutdown due to leak?  Yes  No  
 If Yes, how long? SHUTDAY days SHUTHR hours SHUTMIN minutes

**IGNITE** **EXPLO**  
 c. Product ignited  Yes  No d. Explosion  Yes  No  
**E** **VAC** **E** **VACNO**  
 e.  Evacuation (general public only) / / / / / people  
 Reason for Evacuation: EVAC\_REASON\_TEXT  
 Precautionary by company  
 Evacuation required or initiated by public official  
 f. Elapsed time until area was made safe:  
STHH / / / hr. / / / min. **STMN**

**2. Environmental Impact**

a. Wildlife Impact: Fish/aquatic  Yes  No **FISH**  
 Birds  Yes  No **BIRDS**  
 Terrestrial  Yes  No **TERRESTRIAL**  
 b. Soil Contamination  Yes  No **SOIL**  
 If Yes, estimated number of cubic yards: SOIL\_YRD  
 c. Long term impact assessment performed:  Yes  No **IMPACT**  
 d. Anticipated remediation  Yes  No **REMEDIAL** **RGROUND** **R** **SOIL** **R** **VEG** **R** **WILD**  
 If Yes, check all that apply:  Surface water  Groundwater  Soil  Vegetation  Wildlife **DRINKSRC\_TEXT**

**WATER**  
 e. Water Contamination:  Yes  No (If Yes, provide the following)  
 Amount in water \_\_\_\_\_ barrels **AMT\_IN\_WATER**  
 Ocean/Seawater  No  Yes **OCEAN**  
 Surface  No  Yes **SURFACE**  
 Groundwater  No  Yes **GROUNDW**  
 Drinking water  No  Yes (If Yes, check below.) **DRINK**  
 Private well  Public water intake

**PART G – LEAK DETECTION INFORMATION**

1. Computer based leak detection capability in place?  Yes  No **COMP\_BASED**
2. Was the release initially detected by? (check one): **DETECTED\_TEXT**
- CPM/SCADA-based system with leak detection
  - Static shut-in test or other pressure or leak test
  - Local operating personnel, procedures or equipment
  - Remote operating personnel, including controllers
  - Air patrol or ground surveillance
  - A third party  Other (specify) **DETECTEDO**
3. Estimated leak duration **DURLEAK\_DAY** days \_\_\_\_ **DURLEAK\_HR** hours \_\_\_\_

**PART H – APPARENT CAUSE**  
**CAUSE\_DETAILS**

**Important:** There are 25 numbered causes in this Part H. Check the box corresponding to the primary cause of the accident. Check one circle in each of the supplemental categories corresponding to the cause you indicate. See the instructions for guidance.

**H1 – CORROSION**

1.  External Corrosion
2.  Internal Corrosion

(Complete items a – e where applicable.)

- PIPE\_COAT\_TEXT**
- a. Pipe Coating
- Bare
  - Coated
- VIS\_EXAM\_TEXT**
- b. Visual Examination
- Localized Pitting
  - General Corrosion
  - Other **VIS\_EXAMO**
- COR\_CAUSE\_TEXT**
- c. Cause of Corrosion
- Galvanic  Atmospheric
  - Stray Current  Microbiological
  - Cathodic Protection Disrupted
  - Stress Corrosion Cracking
  - Selective Seam Corrosion
  - Other **COR\_CAUSEO**
- PROT**
- d. Was corroded part of pipeline considered to be under cathodic protection prior to discovering accident?
- No  Yes, Year Protection Started: / / / / / **CPYR**
- PREV\_DAM**
- e. Was pipe previously damaged in the area of corrosion? **PREV\_DAM\_UK**
- No  Yes ⇒ Estimated time prior to accident: / / / years / / / months Unknown
- PREV\_DAM\_YR** **PREV\_DAM\_MO**

**H2 – NATURAL FORCES**

3.  Earth Movement ⇒ **EARTH\_MOVE\_TEXT**
- Earthquake  Subsidence  Landslide  Other **EARTH\_MOVEO**
4.  Lightning
5.  Heavy Rains/Floods ⇒ **FLOODS\_TEXT**
- Washouts  Flotation  Mudslide  Scouring  Other **FLOODSO**
6.  Temperature ⇒ **TEMPER\_TEXT**
- Thermal stress  Frost heave  Frozen components  Other **TEMPERO**
7.  High Winds

**H3 – EXCAVATION DAMAGE**

8.  Operator Excavation Damage (including their contractors/Not Third Party)
9.  Third Party (complete a-f)
- a. Excavator group **THIRD\_PARTY\_GRP\_TEXT**
- General Public  Government  Excavator other than Operator/subcontractor
- THIRD\_PARTY\_TYPE\_TEXT**
- b. Type:  Road Work  Pipeline  Water  Electric  Sewer  Phone/Cable
- Landowner-not farming related  Farming  Railroad
  - Other liquid or gas transmission pipeline operator or their contractor
  - Nautical Operations  Other **THIRD\_PARTY\_TYPEO**
- EXCAV\_TYPE\_TEXT**
- c. Excavation was:  Open Trench  Sub-strata (boring, directional drilling, etc...)
- EXCAV\_ON**
- d. Excavation was an ongoing activity (Month or longer)  Yes  No If Yes, Date of last contact / / / /
- NOTIF** e. Did operator get prior notification of excavation activity? **NOTIF\_DATE**
- Yes; Date received: / / / mo. / / / day / / / / / yr.  No
- Notification received from:  One Call System  Excavator  Contractor  Landowner **NOTIF\_RCVD\_TEXT**
- MARKED** f. Was pipeline marked as result of location request for excavation?  No  Yes (If Yes, check applicable items i - iv)
- i. Temporary markings:  Flags  Stakes  Paint **TEMP\_MARK\_TEXT**
- PERM\_MARK** ii. Permanent markings:
- iii. Marks were (check one) :  Accurate  Not Accurate **ACC\_MARK\_TEXT**
- MKD\_IN\_TIME** iv. Were marks made within required time?  Yes  No

**H4 – OTHER OUTSIDE FORCE DAMAGE**

10.  Fire/Explosion as primary cause of failure ⇒ **FIRE\_EXPLO\_TEXT** Fire/Explosion cause:  Man made  Natural
11.  Car, truck or other vehicle not relating to excavation activity damaging pipe
12.  Rupture of Previously Damaged Pipe
13.  Vandalism

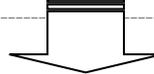
**H5 – MATERIAL AND/OR WELD FAILURES**

**Material**

14.  Body of Pipe ⇒  Dent **PIPE\_BODY\_TEXT**  Gouge  Bend  Arc Burn  Other **PIPE\_BODYO**
15.  Component ⇒  Valve **COMPONENT\_TEXT**  Fitting  Vessel  Extruded Outlet  Other **COMPONENTO**
16.  Joint ⇒  Gasket **JOINT\_TEXT**  O-Ring  Threads  Other **JOINTO**

**Weld**

17.  Butt ⇒  Pipe **BUTT\_TEXT**  Fabrication  Other **BUTTO**
18.  Fillet ⇒  Branch **FILLET\_TEXT**  Hot Tap  Fitting  Repair Sleeve  Other **FILLETO**
19.  Pipe Seam ⇒  LF ERW  DSAW  Seamless  Flash Weld **PIPE\_SEAM\_TEXT**  HF ERW  SAW  Spiral  Other **PIPE\_SEAMO**



Complete a-g if you indicate **any** cause in part H5.

- a. Type of failure: **FAIL\_TYPE\_TEXT**  
 Construction Defect ⇒  Poor Workmanship **CONS\_DEF\_TEXT**  Procedure not followed  Poor Construction Procedures  
 Material Defect
- b. Was failure due to pipe damage sustained in transportation to the construction or fabrication site?  Yes  No **PIPE\_DAMAGE**
- c. Was part which leaked pressure tested before accident occurred?  Yes, complete d-g  No **PRS\_TEST**
- d. Date of test: **TEST\_YR** / **TEST\_MO** / **TEST\_DAY** yr. / mo. / day
- e. Test medium: **TEST\_MED\_TEXT**  Water  Inert Gas  Other **TEST\_MEDO**
- f. Time held at test pressure: / / hr. **TEST\_TP**
- g. Estimated test pressure at point of accident: **TEST\_PRS** PSIG

**H6 – EQUIPMENT**

20.  Malfunction of Control/Relief Equipment ⇒  Control valve **MALFUNC\_TEXT**  Instrumentation  SCADA  Communications  
 Block valve  Relief valve  Power failure  Other **MALFUNCO**
21.  Threads Stripped, Broken Pipe Coupling ⇒  Nipples **THREADS\_TEXT**  Valve Threads  Dresser Couplings  Other **THREADSO**
22.  Seal Failure **SEAL\_TEXT** ⇒  Gasket  O-Ring  Seal/Pump Packing  Other **SEALO**

**H7 – INCORRECT OPERATION**

23.  Incorrect Operation **IO\_TYPE\_TEXT**
- a. Type:  Inadequate Procedures  Inadequate Safety Practices  Failure to Follow Procedures  
 Other **IO\_TYPEO**
- b. Number of employees involved who failed a post-accident test: drug test: / / / alcohol test / / / / **IO\_DRUG** **IO\_ALCO**

**H8 – OTHER**

24.  Miscellaneous, describe: **MISC** \_\_\_\_\_
25.  Unknown **UNKNOWN\_TEXT**  
 Investigation Complete  Still Under Investigation (submit a supplemental report when investigation is complete)

**PART I – NARRATIVE DESCRIPTION OF FACTORS CONTRIBUTING TO THE EVENT**

(Attach additional sheets as necessary)

**NARRATIVE**

**Note:** Field names not on the form are as following:

| <b>Field Name</b>          | <b>Field Name Description</b>   |
|----------------------------|---|
| <b>DATAFILE_AS_OF</b>      | <i>Data as of date</i>  |
| <b>SIGNIFICANT</b>         | <i>Identify if record meets the significant criteria or not: If there was fatality, injury, fire, explosion, total property damage \$50K or more in 1984 dollars, non-HVL loss &gt;= 50bbls, HVL loss &gt;= 5bbls, then SIGNIFICANT='YES', else SIGNIFICANT='NO'.</i> |
| <b>IYEAR</b>               | <i>Year accident occurred, derived from accident date</i>   |
| <b>PPRPRCURRENT</b>        | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>EMRPRCURRENT</b>        | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>ENVPRCURRENT</b>        | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>OPCPRCURRENT</b>        | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>PRODPRCURRENT</b>       | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>OOPRCURRENT</b>         | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>OOPRPRCURRENT</b>       | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>TOTAL_COST_IN84</b>     | <i>Converted Property Damage to 1984 dollars</i>  |
| <b>TOTAL_COST_CURRENT</b>  | <i>Converted Property Damage to Current Year dollars</i>  |
| <b>MAP_CAUSE</b>           | <i>Cause by PHMSA for 20 year accident trending</i>   |
| <b>MAP_SUBCAUSE</b>        | <i>SubCause by PHMSA for 20 year accident trending</i>  |
| <b>SPILL_TYPE_CATEGORY</b> | <i>Spill type category by PHMSA for accident trending; If there was fatality, injury, fire, explosion, water contamination, total property damage &gt; \$50K, or loss &gt;= 5bbls, then SPILL_TYPE_CATEGORY='LARGE', else SPILL_TYPE_CATEGORY='SMALL'.</i>            |
| <b>SERIOUS</b>             | <i>Identify if record meets the SERIOUS criteria or not: If there was fatality or injury then SERIOUS = 'YES' else SERIOUS = 'NO'.</i>  |