#### **PSDTS STAND-ALONE in Blue**

#### RELEASE RECORD - HAZARDOUS LIQUID PIPELINE SYSTEMS

# PART DS. DESCRIPTION OF RELEASE

1. Estimated Date/Time when the release first started:
2. Date/Time when the release was initally detected by the Operator:
3. How was the release initially detected? (check one):  CPM SCADA-based systems with automated leak detection (alert/alarm) External systems with automated leak detection (alert/alarm) Controller monitoring (pressure, flow, etc.) Static shut-in test or other pressure or leak test Air patrol Ground patrol by Operator or its Contractor Notification from Public Notification from Third Party that caused the Accident Local Operating personnel, including Contractors Notification from Emergency Responder Other (please specify)
<ul> <li>4. What was the operational status of the pipeline when the release occurred?</li> <li>Startup – process when the pipeline is starting up</li> <li>Shutdown – process when the pipeline is shutting down</li> </ul>
Steady-State – operating parameters remain nearly constant over a period of time
Transient – operating parameters change over time; unsteady flow
Shut-in - when pipleline is not flowing
Other such as slack line flow or column separation (please specify)
5. Date/Time when the release was confirmed:

6. Was the release confirmed by? (check one):	alarm)
7. Is pipeline or facility? O Interstate O Intrastate	
8. Is the pipeline or facility an unregulated gathering line under Part 195 of O Yes O No	r its state equivalent?
9. National Response Center Report Number (if applicable)	
10. Transported commodity released (check one):	
<ul> <li>HVL's or other flammable or toxic fluid which is a gas a</li> <li>CO2, N2 or other non-flammable, non-toxic fluid which</li> <li>Gasoline, diesel, fuel oil, or other petroleum product who</li> <li>Crude Oil</li> <li>Biofuel (including all releases of any ethanol blends)</li> <li>Fuel Grade Ethanol</li> <li>Ethanol Blend E/</li> <li>Biodiesel Blend B/_/_</li> <li>Other Biofuel</li> </ul>	is a gas at ambient conditions
11. Was this pipeline segment or facility one that your Company's process could affect a high consequence area? (This includes direct intersection a	s showed to be a segment or facility that swell as model spill)?
○ Yes ○ No	

	ease occur in or reach a High Consequence Area? (Any impact to the HCA does not matter for this a location question only)?
O No	
O Yes, specify	the types of HCAs intersected or reached
	<ul><li>☐ Commercially navigable waterway</li><li>Was this HCA identified in the "could affect" determination in your IMP?</li><li>○ Identified ○ Not Identified</li></ul>
	<ul><li>☐ High Population area</li><li>Was this HCA identified in the "could affect" determination in your IMP?</li><li>○ Identified ○ Not Identified</li></ul>
	<ul> <li>Other populated area</li> <li>Was this HCA identified in the "could affect" determination in your IMP?</li> <li>○ Identified ○ Not Identified</li> </ul>
	<ul> <li>☐ Unusually Sensitive Area – Water</li> <li>Was this HCA identified in the "could affect" determination in your IMP?</li> <li>○ Identified ○ Not Identified</li> </ul>
	<ul> <li>☐ Unusually Sensitive Area – Ecological</li> <li>Was this HCA identified in the "could affect" determination in your IMP?</li> <li>○ Identified ○ Not Identified</li> </ul>
13. Estimated s	size of release: bbls
14. HVL release	es: of the released amount, how much was assoicated with response (blow-down) bbls
15. Amount of o	commodity recovered bbls
16. Did the rele	ase occur:
O Ons	hore
a)	State
b)	Location of Accident: (choose one)
	<ul> <li>Totally contained on Operator-controlled property</li> <li>Originated on Operator-controlled property, but then flowed or migrated off the property</li> <li>Pipeline right-of-way</li> </ul>
c)	Area of Accident: (choose one)
	<ul> <li>Tank, including attached appurtenances: (choose one)</li> </ul>
	o Underground: (choose one)
	<ul> <li>Under soil</li> <li>Under pavement</li> <li>Under a building</li> <li>Exposed due to excavation</li> <li>In underground enclosed space (e.g., vault)</li> <li>Other</li> <li>c1. Depth of cover at site of damage (in inches):</li> </ul>

	0	Aboveground
		<ul> <li>Typical aboveground facility piping or appurtenance</li> <li>Overhead crossing</li> <li>In or spanning an open ditch</li> <li>Inside a building</li> <li>Inside other enclosed space</li> <li>Other</li> </ul>
	0	Transition Area
		<ul> <li>Soil/air interface</li> <li>Wall sleeve</li> <li>Pipe support or other close contact area</li> <li>Other</li> </ul>
d)	Did the	Accident occur in a crossing?
		<ul><li>No</li><li>Yes, specify the type of crossing: (choose all that apply)</li></ul>
		<ul> <li>□ Bridge Crossing → Specify: ○ Cased ○ Uncased</li> <li>□ Railroad Crossing → check all: □ Cased □ Uncased □ Bored/drilled</li> <li>□ Road Crossing → check all: □ Cased □ Uncased □ Bored/drilled</li> <li>□ Water Crossing → Specify: ○ Cased ○ Uncased</li> <li>Name of body of water, if commonly known: □</li> </ul>
		Water depth (in feet) at the point of accident:
		Water subtype: (choose one)
		<ul> <li>Shoreline/Bank crossing</li> <li>Below water, pipe in bored/drilled crossing</li> <li>Below water, pipe buried below bottom (NOT in bored/drilled crossing)</li> <li>Below water, pipe on or above bottom</li> </ul>
00	ffshore	
e)	What	type of waters: O Federal OCS waters O State waters
f)	Offsho	re Area (without block number e.g. ship shoal)
g)	g) Approximate water depth (in feet)	
h)	Area o	f Accident: (choose one)
		<ul> <li>Shoreline/Bank crossing or shore approach</li> <li>Below water, pipe buried or jetted below seabed</li> <li>Below water, pipe on or above sea</li> <li>Splash Zone of riser</li> <li>Portion of riser outside of Splash Zone, including riser bend</li> <li>Platform</li> </ul>

#### (SHORT FORM IS ONLY VISIBLE FOR SMALL RELEASES IN UNREGULATED GATHERING LINES)

[Navigation Node] If Estimated size of release is <5 barrels, and pipeline or facility is <u>unregulated</u> gathering, then go to PART SM. (Part SM only visible for <u>Unregulated Gathering Lines</u>)

### PART SM. SHORT FORM FOR SMALL RELEASES

PARI	SIVI. SHURT FURIVI FUR SIVIALL RELEASES
1.	If Onshore, Location of Accident (choose one)
	<ul> <li>Totally contained on Operator-controlled property</li> <li>Originated on Operator-controlled property, but then flowed or migrated off the property</li> <li>Pipeline right-of-way</li> </ul>
2.	Was Water impacted?
	<ul><li>○ No</li><li>○ Yes, (check all that apply)</li></ul>
	<ul> <li>☐ Ocean/Seawater</li> <li>☐ Surface water, Was an intake shutdown?</li> <li>☐ Yes</li> <li>☐ No</li> <li>☐ Don't know</li> <li>☐ Groundwater If checked, Was a well shutdown?</li> <li>☐ Yes</li> <li>☐ No</li> <li>☐ Don't know</li> <li>☐ Drinking water for human consumption</li> <li>☐ A drinking water source identified as an area unusually sensitive to environmental damage under Part 195.6)</li> </ul>
3.	Part of system involved (check one):  O Onshore Tanks or Storage Vessels, Including Attached Appurtenances  Belowground Storage or Cavern, including Associated Equipment and Piping  Onshore Terminal/Tank Farm Equipment and Piping  Onshore Pump/Meter Station Equipment and Piping  Onshore Pipeline, Including Valve Sites  Offshore Platform/Deepwater Port, Including Platform-mounted Equipment and Piping, Riser, or Riser Bend  Offshore Pipeline
4.	Cause of release (check one):  O Excavation damage O Corrosion O Material, seam, weld or repair weld failure for pipe or tank O Equipment malfunction or failure of non-pipe component O Operator error or other incorrect operation O Natural forces O Other Outside Force Damage O Other
Was	red if Operator error or other incorrect operation is checked is the operator error failure due to: Excavation or physical damage to facility or pipeline by operator or or or or contractor? O Yes (you will be navigated to the DIRT form) O No
	END PART SM

# PART CQ. CONSEQUENCE OF RELEASE

1.	Was there a fire? O No O Yes
2.	Was there an explosion? O No O Yes
3.	Were there fatalities? O No O Yes
4.	Were there injuries requiring inpatient hospitalization? O No O Yes
5.	Number of general public evacuated
6.	Wildlife Impact?
	<ul><li>○ No</li><li>○ Yes, (check all that apply):</li></ul>
	☐ Fish/aquatic ☐ Birds ☐ Terrestrial
7.	Was water impacted?
	<ul><li>○ No</li><li>○ Yes, (check all that apply):</li></ul>
	<ul> <li>☐ Ocean/Seawater</li> <li>☐ Surface water</li> <li>☐ Groundwater</li> <li>☐ Drinking water ○Private Well ○ Public Water Intake</li> </ul>
	7a. Estimated amount released in or reaching water: bbls
	7b. Name of body of water, if commonly known: :
8.	Was there an impact to Soil? O No O Yes
9.	Long term impact assessment performedor planned: O No O Yes
10.	Anticipated Remediation?
	<ul><li>○ No</li><li>○ Yes, (check all that apply):</li></ul>
	Soil Surface water Groundwater Vegetation Wildlife
11.	Was public, personal or commercial property disrupted or damaged? O Yes O No
	If Yes, check all that apply:  ☐ Homes and/or personal property ☐ Businesses/commercial ☐ Farming/agricultural business ☐ Other ☐ Under ☐ Recreational resources ☐ Commercial navigation ☐ Public place or facility

12. Estima	ted Property Damage (in \$):
a.	Public and non-Operator private property damage
b.	Commodity lost
C.	Operator's property damage and repairs
d.	Operator's emergency response
e.	Operator's environmental remediation
f.	Other costs
g.	Total estimated property damage (sum of above)

# PART PB. DETAILS OF PUBLIC SAFETY CONSEQUENCES

Fatalities and/or injuries:

Number of Operator employees	fatalities	_ injured
Number of Contractor employees working for the operator	fatalities	injured
Number of Non-Operator emergency responders	fatalities	injured
Number of Workers working on the ROW, but NOT associated with this operator	fatalities	_ injured
Number of Others (public)	fatalities	_ injured
Total	fatalities	injured

## PART LD. LEAK DETECTION

. Is this pipeline segment/facility at the release location under the operation of a control center?	
○ No ○ Yes	
f No, skip questions 2, 3, 7, 8, 9, 10, 11	
2. Date/Time when the Control Center/Operations Center was notified of a possible release :	
B. Did the Control Center/Operations Center take action?     ○ No ○ Yes	
<ul> <li>a. If Yes, Date/Time when the Control Center/Operations Center action was taken :</li> <li>b. What prompted the Control Center to take operational action?</li> <li>○ CPM</li> </ul>	_
<ul> <li>SCADA-based systems with automated leak detection (alert/alarm)</li> <li>External systems with automated leak detection (alert/alarm)</li> <li>Controller monitoring (pressure, flow, etc.)</li> </ul>	
Static shut-in test or other pressure or leak test     Air patrol	
<ul> <li>Ground patrol by Operator or its Contractor</li> <li>Notification from Public</li> </ul>	
<ul><li>Notification from Third Party that caused the Accident</li><li>Local Operating personnel, including Contractors</li></ul>	
<ul><li>Notification from Emergency Responder</li><li>Other (please specify)</li></ul>	
. What type of leak detection methods are used on the section of pipeline/facility where the release occurred?	
please check all that apply)  ☐ CPM	
SCADA-based systems with automated leak detection (alert/alarm)  External systems with automated leak detection (alert/alarm)	
Controller monitoring (pressure, flow, etc.)	
Static shut-in test or other pressure or leak test Air patrol	
☐ Ground patrol by Operator or its Contractor ☐ Patrol by a 3 <sup>rd</sup> party pipeline Operator	
Other (please specify)	
5. Did the applied leak detection tools, whether human, software or hardware, perform as expected?	
O Yes O No  If No Reason for non-performance (check one):	
☐ Field instrumentation failure ☐ Communications failure	
Software failure Human error	
Other	

<b>7</b> . Ind	licate the type(s) of CPM or automated system(s) that were operational at the release location:
(sele	ct all that apply)
	Acoustic/Negative Pressure Wave CPM Line Balance CPM Pressure/flow Monitoring CPM Real-Time Transient Model (RTTM) CPM Statistical Analysis CPM External automated leak detection system or Other (please specify):  None
	CPM or automated leak detection system provided a valid release alarm, please indicate the type of m(s) that alarmed:
	None
	Acoustic/Negative Pressure Wave CPM
	Line Balance CPM
F	Pressure/flow Monitoring CPM
	Real-Time Transient Model (RTTM) CPM
<u> </u>	Statistical Analysis CPM
speci	Automated external leak detection (e.g. cable-based, cameras, hydrocarbon sensors, etc.) or other (please fy):
	<ul> <li>a. Of the CPM or automated leak detection system(s) that provided a valid release alarm, which of the system(s) alarmed first? (choose one):</li> </ul>
	Acoustic/Negative Pressure Wave CPM
	Line Balance CPM
	Pressure/flow Monitoring CPM
	Real-Time Transient Model (RTTM) CPM
	Statistical Analysis CPM

Automated other (please sp		ole-based, cameras, hydrocarbon sensors, etc.) o
b. If there was an alarr	m, Date/Time of CPM or automat	ted system alarm that initially indicated a release
9. Did the CPM or automated Le ○ No ○ Yes	eak Detection System(s) provide	an estimated location of events?
	e error in feet, between the actua PM or automated system(s)?:	I site of the release and the initial location ft
10. Did the release rate exceed that were operational during this		ld of the automated Leak Detection system(s)
C No C Yes		
11. Please provide a brief narrat response to and during this relea		sed system(s) assisted with the Operator's
PART LD. LEAK DETECT	ΓΙΟΝ for Onshore Pipeline	es Only
	estimated release rate before mour and as a % of flow.	nitigating steps were taken in response? Please
Barrels per Hour		
% of Flow		

### PART FA. FACILITY INVOLVED

1.	Part of system involved (check one):  O Onshore Tanks or Storage Vessels, Including Attached Appurtenances [Also complete PART TK]  Specify:  O Atmospheric or Low Pressure  O Pressurized
	<ul> <li>Belowground Storage or Cavern, including Associated Equipment and Piping</li> <li>Onshore Terminal/Tank Farm Equipment and Piping</li> <li>Onshore Pump/Meter Station Equipment and Piping</li> <li>Onshore Pipeline, Including Valve Sites</li> <li>Offshore Platform/Deepwater Port, Including Platform-mounted Equipment and Piping, Riser, or Rise Bend</li> <li>Offshore Pipeline</li> </ul>
2.	Item involved (check one):  ○ Pipe → Specify ○ Pipe Body ○ Pipe Seam  a. Nominal pipe size in inches b. Wall thickness in inches c. SMYS (psi) d. Type of Pipe  ○ Seamless ○ Flash welded ○ Spiral welded DSAW ○ Longitudinal ERW - Low Frequency ○ Longitudinal ERW - High Frequency ○ Furnace Butt welded ○ Spiral welded ERW ○ Single SAW ○ Lap welded ○ Plastic/non-metallic ○ DSAW ○ Continuous welded ○ Longitudinal ERW - Unknown Frequency ○ Other
	e. Pipe Manufacturer f. Year of manufacture g. Pipeline coating type at point of accident: (choose one)

Specify type of service				<ul><li>Po</li><li>Ce</li><li>Ge</li></ul>	pe of pump sitive Displace ntrifugal ar ner, specify _			
o Relief Line o Scraper/Pig trap Sump/Separator o Repair sleeve or clamp Hot Tap Equipment Stopple Fitting Flange o Auxiliary piping (e.g. drain lines) Tubing Specify tubing Material: □ Stainless Steel □ Carbon Steel □ Copper □ Other Specify type of Tubing: □ Rigid □ Flexible  o Instrumentation Tank/Vessel Other, please indicate the item involved  3. Year item was installed (actual or estimated if necessary): □ Capper ○ Connection Failure ○ Crack ○ Pinhole ○ Seal or Packing ○ Other ○ Rupture, (choose one) ○ Circumferential ○ Circumferential ○ Circumferential ○ Cother ○ Circumferential ○ Cother ○ Circumferential ○ Cother ○ Circumferential ○ Cother				0 0	Mainline Pip Pipeline Boo Injection Pump for Tru	oster uck Rack (if on to	erminal side of truck rack canopy)	
3. Year item was installed (actual or estimated if necessary):  4. Type of Accident involved: (check one)  ○ Mechanical Puncture → Axial size in inches by Circumference in inches  ○ Leak, (choose one)  ○ Connection Failure  ○ Crack  ○ Pinhole  ○ Seal or Packing  ○ Other  ○ Rupture, (choose one)  ○ Circumferential  ○ Longitudinal  ○ Other				Relief Line Scraper/Pig Sump/Sepa Repair slee Hot Tap Ec Stopple Fit Flange Auxiliary pi Tubing Specif  Specif  Instrument Tank/Vess	g trap arator eve or clamp quipment ting ping (e.g. drain y tubing Mate	rial: nless Steel bon Steel per er ing: d		
<ul> <li>4. Type of Accident involved: (check one)</li> <li>○ Mechanical Puncture → Axial size in inches by Circumference in inches</li> <li>○ Leak, (choose one)</li> <li>○ Connection Failure</li> <li>○ Crack</li> <li>○ Pinhole</li> <li>○ Seal or Packing</li> <li>○ Other</li> <li>○ Rupture, (choose one)</li> <li>○ Circumferential</li> <li>○ Longitudinal</li> <li>○ Other</li> </ul>			0	Other, plea	se indicate th	e item involved		
<ul> <li>Mechanical Puncture → Axial size in inches by Circumference in inches</li> <li>Leak, (choose one)         <ul> <li>Connection Failure</li> <li>Crack</li> <li>Pinhole</li> <li>Seal or Packing</li> <li>Other</li> </ul> </li> <li>Rupture, (choose one)         <ul> <li>Circumferential</li> <li>Longitudinal</li> <li>Other</li> </ul> </li> </ul>	3.	Year item	n was i	nstalled (ac	tual or estima	ted if necessary)	):	
<ul> <li>Rupture, (choose one)</li> <li>Circumferential</li> <li>Longitudinal</li> <li>Other</li> </ul>	4.	o M o L	Mechar Leak, (o	nical Punctu choose one) Connectior Crack Pinhole Seal or Pace Other	re → Axial si: n Failure cking	ze in inches	by Circumference in inches	
			Rupture o o	e, (choose o Circumfere Longitudina Other	ne) ntial al	at opening	by length (circum or axially) in inches	
o Other		0	Other					

o Pump

# PART TK. DETAILS WHEN ONSHORE TANK OR STORAGE VESSEL, INCLUDING ATTACHED APPURTENANCES ARE INVOLVED

1.	Item involved/Type of Failure (check one):  Single Bottom System failure (you will be navigated to PART TK2)  Double Bottom System failure (you will be navigated to PART TK2)  Chime Failure (you will be navigated to PART TK2)  Shell or Head failure (you will be navigated to PART TK2)  If Shell or Head failure, was the failure in a riveted seam? O Yes O No  Overfill/overpressure (check one)  Operator error only  Equipment malfunction only  Operator error with equipment malfunction  Other, please specify  Appurtenance failure (check one) (you will be navigated to PART TK2)  O Roof drain failure  Other, please specify  Other failure (you will be navigated to PART TK2)
2.	Is this tank a breakout tank? O Yes O No
	TK2. DETAILS WHEN ABOVE GROUND STORAGE TANK IS INVOLVED AND RFILL IS NOT THE TYPE OF FAILURE.
1.	Was this a catastrophic failure? O Yes O No
2.	Was the tank hydrotested or otherwise pressure tested upon construction or major repair?
	○ Yes ○ No
4. 5.	Is the tank bottom cathodically protected? O Yes O No Is the tank bottom internally lined or coated? O Yes O No Was vortex erosion a factor in this failure? O Yes O No Year item involved was installed (actual or estimated if necessary)
7.	Year of most recent API 653 internal tank inspection or equivalent O Not yet required
8.	Year of most recent API 653 shell thickness external tank inspection or equivalentO Not yer required

### **DETAILS RELATING TO CAUSES**

# PART PW. DETAILS WHEN CAUSE IS MATERIAL, SEAM, WELD OR REPAIR WELD FAILURE FOR PIPE OR TANK

1.	The sub-cause selected below is based on the following (select all that apply)    Field Examination   Determined by Metallurgical Analysis   Sub-cause is Tentative or Suspected; Still under investigation   Other
	1b. Failure Type (check one)  Construction-, Installation-, or Fabrication-related Original Manufacturing-related (not girth weld or other welds formed in the field) Environmental Cracking-related (check one) Stress Corrosion Cracking Sulfide Stress Cracking Hydrogen Stress Cracking Other
2.	List contributing factors (check all that apply for 1b except Environmental Cracking):  Fatigue or Vibration related (check one)  Defective pipe body or tank plate material Defective pipe seam Defective girth weld Defective fabrication weld or repair weld Original construction or fabrication damage or defect Pipe transport damage Prior third party damage Prior third party damage Defective tank shell seam Other defective weld or material Mechanically-induced fatigue prior to installation (such as during transport of pipe) Mechanical Vibration Pressure-related Thermal Other Mechanical Stress Other
3.	What other factors do you suspect played a role in the incident: (select all that apply)  Fatigue crack growth  Overpressurization  Ground settling or other loss of support  Dent  Gouge  Pipe Bend  Arc Burn  Crack  Lack of Fusion  Lamination  Buckle  Wrinkle  Misalignment  Burnt Steel  Other factors

# PART EX. DETAILS WHEN CAUSE IS EXCAVATION DAMAGE

1.	Excavation Damage (select one):  O Excavation Damage by Operator (First Pa O Excavation Damage by Operator's Contrac O Excavation Damage by Third Party O Previous Damage due to Excavation Activ	ctor (Second Party)
2.	Was there a job specific excavation plan in effect	t? O Yes O No
3.	Did the Operator get prior notification of the exca  O Yes, select all that apply  One Call System  Excavator  Contractor  Landowner  No	avation activity?
4.	Pipeline operator's response to One-Call notification  Marked or staked centerline of pipe  Provided on-site representation during excave Excavated own line for the third party  Pipeline operator was unaware of excavation	ation
5.	Right-of-way patrol frequency: O Weekly O B	-weekly O Other
6.	Were permanent pipeline right-of-way markers v ○ Yes ○ No	risible to third party at the site?
Also, y	ou will be navigated to Part DT – DIRT Module	
If Prior	Damage:	
7.	Evidence of damage (check one):  Coating damage only  Dent or buckle without metal loss  Gouge or other metal loss (with or without dent or buckle)  Other	<ul> <li>8. Position of damage on pipe (check one):</li> <li>Top (10-2 o'clock position)</li> <li>Side (8-10 &amp; 2-4 o'clock position)</li> <li>Bottom (4-8 o'clock position)</li> </ul>

# PART OF. DETAILS WHEN CAUSE IS OTHER OUTSIDE FORCE DAMAGE

1.	Other Outside Force Damage (select one):  O 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  Vehicle/Equipment operated by: (select only one)  Operator
	Operator Operator
	O Third Party
	O Damage by Boats, Barges, Drilling Rigs, or other Maritime Equipment or Vessels Set Adrift o Which Have Otherwise Lost Their Mooring
	Select one or more if an extreme weather event was a factor:
	Hurricane Tropical Storm Tornado Heavy Rains/Flood Other
	O Routine or Normal Fishing or Other Maritime Activity not engaged in Excavation
	O Electrical Arcing from Other Equipment or Facility
	O Previous Mechanical Damage Not related to Excavation
	O Intentional Damage, (select only one)
	O Vandalism
	O Terrorism
	O Theft of transported commodity
	O Theft of equipment
	O Other
	O Other Outside Force Damage

# PART CR. DETAILS WHEN CAUSE IS CORROSION

1.	. Location of corrosion: O External	O Internal
2.	If External Corrosion, complete the following a) Type of corrosion (select all that apply):  Galvanic  Atmospheric  Selective seam corrosion  Microbiologically-induced  Stress corrosion cracking  Stray current corrosion  Other	
	b) Facility under Cathodic protection? O Yes	s O No
	c) Was the failed item externally coated or pa	inted? O Yes O No
	d) Was shielding, tenting, or disbonded coating	ng a factor in this failure? O Yes O No
	e) Was damaged coating a factor in this failur	e? O Yes O No
	<ul><li>e) Has a Close Interval Cathodic Protection S</li><li>O Yes, specify the year of most recent C</li><li>O No</li></ul>	
	nal Corrosion questions to be skipped if the adding Attached Appurtenances.	facility involves is Onshore Tanks or Storage Vessels,
3.	B. If Internal Corrosion, complete the following	:
	a) Flow Characteristics: How would you cated O Continuous O Intermittent O	porize the flow in this piece of pipe?  No Flow O Not applicable to item involved
	b) Was the commodity treated with corrosion	inhibitors or biocides? O Yes O No
	c) Were cleaning /dewatering pigs (or other o  O Yes  O No  O Not appl	perations) routinely utilized? cable – Not mainline pipe
	Also, you will be navigated to CD – Condition	s Related to Release

### PART OP. DETAILS WHEN CAUSE IS OPERATOR ERROR OR INCORRECT OPERATION

1.	Operation Type (select one):  O Damage by Operator or Operator's contractor NOT related to Excavation and NOT due to Motorized Vehicle/Equipment Damage  O Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or Overflow  What is the main reason for the overflow: (select only one)  O Valve misalignment  Incorrect reference data/calculation  Miscommunication  Inadequate monitoring  O Other  Valve left or placed in wrong position, but not resulting in a tank, vessel, or sump/separator overflow or facility overpressure  Pipeline or equipment overpressured  Equipment not installed properly  Wrong equipment specified or installed  O Other incorrect operation
2.	Was this Accident related to: (check all that apply)  Inadequate procedure  No procédure established Failure to follow procédure  Other
3.	Was the individual involved:
4.	<ul> <li>A direct employee of the operator</li> <li>A contract employee engaged by the operator</li> <li>What category type was the activity that caused the release: (select one)</li> <li>Construction</li> <li>Commissioning</li> </ul>
	<ul> <li>Routine maintenance</li> <li>Other maintenance</li> <li>Normal operating conditions</li> <li>Non-routine operating conditions (abnormal operations or emergencies)</li> <li>Right-Of-Way activities</li> <li>Decommissioning</li> </ul>
	OQ required for all Operator Error Releases and some Excavation Releases. Consult OQ Coordinator for help with these questions.
, DT	OO OPERATOR OUALIEICATION

## PART OQ. OPERATOR QUALIFICATION

1.	Was this release related to an Operator Qualification "covered task"?
	O No
	O Yes
	If yes, was the individual qualified for the task at the time the task was being performed?
	O Yes
	How much time had passed since the qualification date?
	O less than 6 months
	○ 6 months – 1 year
	O1-2 years

# PART EQ. DETAILS WHEN CAUSE IS EQUIPMENT MALFUNCTION & NON-PIPE COMPONENT FAILURE

1.	Equipment Failure Type (select one):
	O Malfunction of control/relief equipment
	Select all that apply:
	Control Valve
	Instrumentation
	SCADA
	Communications
	Block Valve
	L Check Valve
	Relief Valve
	Power Failure
	Stopple/Control Fitting
	ESD System Failure
	Other
	O Pump or Pump-related equipment, (select only one)
	O Seal/Packing Failure
	O Body Failure
	O Crack in Body
	O Appurtenance Failure
	O Other
	O Threaded Connection/Coupling Failure, (select only one)
	O Pipe Nipple
	O Valve Threads
	O Mechanical Coupling
	O Threaded Pipe Collar
	O Threaded Fitting
	O Other
	O Non-threaded Connection Failure, (select only one)
	O O-Ring
	O Gasket
	O Seal (Not pump seal) or Packing
	O Other
	O Defective or Loose Tubing or Fitting
	O Failure of Equipment Body (except Pump), Tank Plate, or other Material
	O Other equipment failure
2.	Additional factors that contributed to the equipment failure: (select all that apply)
	☐ Excessive vibration
	Breakdown of soft goods due to compatibility issues with transported commodity
	Overpressurization
	No support or loss of support
	☐ Manufacturing defect
	Loss of electricity
	Improper installation
	☐ Mismatched items (different manufacturer for tubing and tubing fittings)
	☐ Dissimilar metals
	☐ Valve vault or valve can contributed to the release
	Alarm/status failure
	Misalignment
	☐ Thermal stress
	Other

## PART NF. DETAILS WHEN CAUSE IS NATURAL FORCE DAMAGE

1.	Which of the following Natural Forces were involved in this failure (select one):  © Earth movement, NOT due to Heavy Rains/Floods  Select only one:  © Earthquake  © Subsidence  © Landslide  © Other  O Heavy Rains/Floods, (select only one)  © Washout/Scouring  © Floatation  © Mudslide  © Other  O Temperature, (select only one)  © Thermal stress  © Frost Heave
	O Frozen Components
	Other O Lightning, (select only one)
	O Direct Hit
	O Secondary Impact such as resulting nearby fires
	<ul><li>○ High Winds</li><li>○ Other Natural Force Damage</li></ul>
2.	Were the natural forces causing the Accident generated in conjunction with an extreme weather event?
	○ No ○ Yes (select all that apply)
	Hurricane
	Tropical Storm
	☐ Tornado ☐ Other
PART	OT. DETAILS WHEN CAUSE IS "OTHER ACCIDENT" CAUSE
1.	Which of the following best describes this failure cause? (select one)  O Miscellaneous
	O Unknown (select only one)
	<ul> <li>Investigation complete, cause of Accident is unknown</li> <li>Still under investigation, cause of Accident to be determined</li> </ul>
	Sam and investigation, eaded of Adoldont to be determined

Part CD Conditions Related to Release NOT to be completed when the facility involved is Onshore Tanks or Storage Vessels, Including Attached Appurtenances, Belowground Storage or Cavern, including Associated Equipment and Piping. Part CD NOT to be completed for Cause of Release Third Party Damage (current), Equipment Failure, Natural Force Damage or Operator Error (except for Operator Error – Overpressure).

#### PART CD. CONDITIONS RELATED TO RELEASE

	Maximum operating pressure of failed component (psig):  Estimated pressure at time and location of failure (psig):
Systen	Tests and Inspections only to be completed when item involved is Pipe, Weld, or Valve.
System	Tests and Inspections
3.	Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Accident?  O Yes Year of most recent test O No O Not applicable to item involved
4.	Has one or more internal inspection tool collected data at the point of the Accident?  O No O Yes
	If <b>yes</b> to 4 above, complete the rest of PART CD below For each tool run and technology used, provide the information below for the most recent and previous year tool runs:
5.	Tool propulsion system: (This question will be asked for each type of tool run selected below)  ○ Propelled in Product Flow  ○ Tethered year of most recent run year of previous run
6.	<u>Tool Technology – Type of tool run</u>
_ Axia	al MFL // / / / / / / / / / / / / / / / / /
	<ul> <li>Metal Loss</li> <li>Regarding Metal Loss, specify → ○ High Resolution ○ Standard Resolution</li> <li>Hard Spots or Residual Field Anomalies</li> <li>Girth Weld Anomalies</li> </ul>
	2. Was an enhanced pitting specification used? O Yes O No
Circ	cumferential/Transverse MFL / / / / / / / / / / /
	<ul> <li>3. What was the circumferential/transverse tool run to detect?</li></ul>
	5. Specify O High Resolution O Standard Resolution
Heli	ical MFL

☐ Pipe Body Anomalies ☐ Metal Loss ☐ Cracking 8. Specify ○ High Resolution ○	Standard Resolution	
☐ Wall Measurement Ultrasonic 9. Regarding Metal Loss, specify	/ / / / / O Pitting Resolution O Standard I	/_/ / / / Resolution
Shear Wave Ultrasonic  10. Did the tool report include (selection of the selection of the s	/ / / / / ect all):	<u>/ / / / /</u>
<ul><li>11. Was the Ultrasonic tool attune</li><li>Axial Cracking Flaws</li><li>Circumferential Cracking F</li></ul>		
☐ Geometry/Deformation  12. Specify: ○ High Resolution  13. Measurement Fingers (select a inside ILI cups  ☐ outside ILI cups ☐ UT	O Standard Resolution all):	<u> </u>
☐ EMAT  14. What was the EMAT tool run to 15. Did the tool report include (seld ☐ Seam Anomalies ☐ Pipe Body Anomalies ☐ Coating Anomalies	o detect?ect all):	<u> </u>
☐ Camera	<u> </u>	<u>/ / / / / /</u>
☐ CPCM	<u> </u>	<u>/ / / / / /</u>
Other, specify tool:	<u> </u>	<u>/ / / / / /</u>
*Magnetic Flux Leakage Tool (MFL) *Electromagnetic Acoustic Transducer (EN *Cathodic Protection Current Measuremen		
Most Recent Ye	was conducted at the point of failure ear Conducted: / / / / /	
<ul><li>Yes, but the point of failure wa Most Recent Ye</li><li>No</li></ul>	s not identified as a dig site ear Conducted: /_///////	
	examination(s) been conducted at the O No	point of the Accident since

PART DT required for all Excavation Damage Releases including Third Party Damage Excavation Releases and Operator Error Excavation Releases.

#### PART DT. DIRT MODULE

PART A - Who is submitting this information		
Who is providing the information?    Electric   Engineer/Design   Equipment Manufacturer   Excavator   Liquid Pipeline   Locator   Natural Gas   Private Water   Public Works   Railroad   Road Builders   Federal/State Regulator   Telecommunications   Unknown/Other		
Name of the person providing the information?		
Part B – Type, Date and Location of Event		
Type of Event: DIRT Event Underground Damage Non-DIRT Event Above Grade A  Date of Event Country State City County Street Address Negrest Intersection	Aerial 🗍 Natural Ca	use
Nearest IntesectionLatitude/Longitude: Lat: Long:	☐ Decimal Degrees	□DMS
Right of Way where event occurred  Pipeline City Street State Highway County Road Interstate Highway Public-Other Private Business Private Land Owner Private Easement Power/Transmission Line Dedicated Public Utility Easement Railroad Unknown/Other		

## Part C - Affected Facility Information

What type of facility op-	eration was affected?	
	☐ Cable Television	
	☐ Electric	
	☐ Natural Gas	
	Liquid Pipeline	
	☐ Sewer (Sanitary Sewer)	
	☐ Steam	
	□ Telecommunications	
	☐ Water	
	☐ Unknown/Other	
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	#	
What type of facility wa		
	Distribution	
	Gathering	
	Service/Drop Transmission	
	Unknown/Other	
Was the facility affected		
	Yes	
	□ No	
	Unknown	
Did this event involve a	Cross Bore?	
	Yes	
	No	
Was the facility owner a	a member of One-Call Center?	
	Unknown	
	Yes	
	No	
	If No, is facility owner exempt from One Call Co	enter membersnip?
	☐ Yes ☐ No	
	☐ No☐ Unknown	
	OTINIOWIT	
Measured Depth from (		☐ <18" / 46cm ☐ 18" - 36" /46
– 91cm	☐ >36" / 91cm	
Part D - Excavation Ir	<u>nformation</u>	
Type of Excavator		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	☐ Contractor	
	Farmer	
	Municipality	
	Occupant Occupant	
	Railroad	
	State	
	County	
	Utility	
	Developer	
	Unknown/Other	

Type of Excavation Equipment
Auger
☐ Backhoe/Trackhoe
Boring
Bulldozer
☐ Drilling
☐ Directional Drilling
Explosives
☐ Farm Equipment
☐ Grader/Scraper ☐ Hand Tools
☐ Milling Equipment
☐ Probing Device ☐ Trencher
☐ Vacuum Equipment
Unknown/Other
Type of Work Performed
☐ Agriculture ☐ Public Transit Authority
Cable Television
☐ Building Construction ☐ Road Work
☐ Curb/Sidewalk ☐ Sewer
☐ Building Demolition ☐ Site Development
☐ Drainage ☐ Steam
☐ Driveway ☐ Storm Drain/Culvert
☐ Electric ☐ Street Light
☐ Engineering/Surveying ☐ Telecommunications
☐ Fencing ☐ Traffic Signal
☐ Natural Gas ☐ Traffic Sign
☐ Grading ☐ Water
☐ Irrigation ☐ Waterway Improvements
☐ Landscaping ☐ Milling ☐ Data ☐ University (Others
☐ Liquid Pipeline ☐ Pole ☐ Unknown/Other
Deut E. Matification and Location
Part E – Notification and Locating
Was the one call center notified?
Yes Ticket Number No
If Yes, type of locator
If No, is excavation activity and/or excavator type exempt from notification?   Yes   Unknown
Was work area white-lined?

Part F - Intentionally left blank

Part G – Excavator Downtime		
Did Excavator incur dow	n time? ☐ Yes ☐ No	
If yes, how much time?	Less than 1 hr 1 to 2 hrs 2 to 3 hrs 3+ hrs Unknown OR Enter Exact Value	
Estimated cost of down	time?  \$0  \$1 to 1,000  \$1,001 to 5,000  \$5,001 to 25,000  \$25,001 to 50,000  \$50,001 and over  Unknown  OR Enter Exact Value	
Part H - Interruption a	nd Restoration	
Did the damage cause a	an interruption in service?  Yes  No Unknown/Other	
If yes, duration of interru	Less than 1 hr	
Approximately how man	y customers were affected?  0 1 1 2 to 10 11 to 50 51 or more Unknown OR Enter Exact Value	
Estimated cost of damage	ge/repair/restoration?  \$0  \$1 to 1,000  \$1,001 to 5,000  \$5,001 to 25,000  \$25,001 to 50,000  \$50,001 and over  Unknown	

Part I –Root Cause
Root Cause: Please choose one
☐ Locating Issue  Facility not marked due to:  ☐ Abandoned facility ☐ Locator error ☐ No response from operator/contract locator ☐ Incomplete marks at damage location ☐ Tracer wire issue ☐ Unlocatable Facility ☐ Incorrect facility records/maps
Facility marked inaccurately due to   Abandoned facility   Incorrect facility records/maps   Locator error   Tracer wire issue   Notification issue   No notification made to the One Call center/811   Excavator dug outside area described on ticket   Excavator dug prior to valid start date/time   Excavator dug after valid ticket expired   Excavator provided incorrect notification information   Excavation Issue   Excavator dug prior to verifying marks by test-hole (pothole)   Excavator failed to maintain clearance after verifying marks   Excavator failed to protect/shore support facilities   Excavator provided incorrect notification information   Improper backfilling practices   Marks faded or not maintained   Improper excavation practice not listed above
<ul> <li>☐ Miscellaneous Root Causes</li> <li>☐ One-Call Center error</li> <li>☐ Deteriorated facility</li> <li>☐ Previous damage</li> <li>☐ Root Cause not listed (comment required)</li> </ul>
Part J – Additional Comments  Please enter your comments (for DIRT) below!!

-----End of Part DT -----

OR Enter Exact Value \_\_\_\_\_

Survey Complete