NCE: This report is required by 49 CFR Part 195. Failure to report can result in a civil penalty not to exceed \$100,000 for each violation for each day that such violation persists except that the maximum civil penalty shall not exceed \$1,000,000 as provided in 49 USC 60122.

OMB NO: 2137-0047

EXPIRATION DATE: 7/31/2015

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

ACCIDENT REPORT – HAZARDOUS LIQUID PIPELINE SYSTEMS

Report Date ______REPORT_RECEIVED_DATE
REPORT_NUMBER
No. ______SUPPLEMENTAL_NUMBER
(DOT Use Only)

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2137-0047. Public reporting for this collection of information is estimated to be approximately 10 hours per response, including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.

Information Collection Clearance Officer, PHMSA, Office of	of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.
INSTRUCTIONS	
information requested and provide specific ex	structions for completing this form before you begin. They clarify the amples. If you do not have a copy of the instructions, you can obtain nity Web Page at http://www.phmsa.dot.gov/pipeline/library/forms .
	ort Type: <i>(select all that apply)</i> □ Original □ Supplemental □ Final ORT_TYPE
1. Operator's OPS-issued Operator Identification Number 2. Name of Operator: 3. Address of Operator: 3.a OPERATOR_STREET_ADDRES 3.b OPERATOR_CITY_NAME (City) 3.c State: /_ / _/ OPERATOR_STATE_ABBREVI	ATION
3.d Zip Code: / / / / / - / / / / / / / / / / / / /	OPERATOR_POSTAL_CODE 6. National Response Center Report Number (if applicable): /// ar 7. Local time (24-hr clock) and date of initial telephonic report to the National Response Center (if applicable): NRC_RPT_DATETIME /// / / / / / / / / / / / / / / / / /

8. Commodity released: (select only one, based on predominant volume rele	eased) COMMODITY_RELEASED_TYPE
☐ Refined and/or Petroleum Product (non-HVL) which is a Liquid at Am	nbient Conditions
O Gasoline (non-Ethanol) O Diesel, Fuel Oil, Kerosene O Mixture of Refined Products (transmix or other mixture) O Other Name: COMMODITY_DETAILS	e, Jet Fuel
 ☐ HVL or Other Flammable or Toxic Fluid which is a Gas at Ambient C ☐ Anhydrous Ammonia ☐ LPG (Liquefied Petroleum Gas) / NGL (Natural Gas Liquid) ☐ Other HVL ➡ Name:	onditions
☐ CO₂ (Carbon Dioxide)	
☐ Biofuel / Alternative Fuel (including ethanol blends) O Fuel Grade Ethanol O Biodiesel Blend (e.g. B2, B20, B100): B/ / / / / /	O Ethanol Blend
 9. Estimated volume of commodity released unintentionally: 10. Estimated volume of intentional and/or controlled release/blowdown: (only reported for HVL and CO₂ Commodities) 	UNINTENTIONAL_RELEASE_BBLS
11. Estimated volume of commodity recovered:	<u> </u>

12. Were there fatalities? O Yes O No FATAI If Yes, specify the number in each category:	.ITY_IND	13. Were there injuries requiring inpatient h If Yes, specify the number in each cat	INTUDY IND
12.a Operator employees /	<u> </u>	13.a Operator employees NUM_EMP_INJURIES	<u>/ / / / / /</u>
12.b Contractor employees working for the Operator NUM_CONTR_FATALITIES 12.c Non-Operator	<u> </u>	13.b Contractor employees working for the Operator NUM_CONTR_INJURIES 13.c Non-Operator	<u> </u>
emergency responders NUM_ER_FATALITIES 12.d Workers working on the right-of-way, but NOT	<u> </u>	emergency responders NUM ER_INJURIES 13.d Workers working on the right-of-way, but NOT	<u> </u>
associated with this Operator / /	<u> </u>	associated with this Operator	<u>/ / / / / /</u>
NUM WORKER FATALITIES 12.e General public / / / NUM GP FATALITIES	<u> </u>	NUM_WORKER_INJURIES 13.e General public NUM GP INJURIES	<u> </u>
12.f Total fatalities (sum of above) /	/ / / /	13.f Total injuries (sum of above)	/ / / / /
FATAL		INJURE	
14. Was the pipeline/facility shut down due to the A O Yes O No ➡ Explain:	CCIUCITE!	DOWN_DUE_ACCIDENT_IND DOWN_EXPLAIN	
If Yes, complete Questions 14.a and 14.b: (us	e local time, 24-	hr clock)	
14.a Local time and date of shutdown	Hour	/ / / / / / / / / / / / / / / Month Day Year	
14.b Local time pipeline/facility restarted	ART_DATETIME /_ 7 / / / Hour	<u> </u>	STILL_SHUTDOWN_IND Still shut down* *Supplemental Report required)
15. Did the commodity ignite? O Yes O No	IGNITE_IND	, ,	, , ,
16. Did the commodity explode? O Yes O No	EXPLODE_IND		
17. Number of general public evacuated: //	1 1,1 1 1	/ NUM_PUB_EVACUATED	
18. Time sequence: (use local time, 24-hour clock))		
18.a Local time Operator identified failure	<u>/ / /</u>	<u> </u>	DENT_IDENTIFIED_DATETIME
18.b Local time Operator resources arrived on	site <u>/ /</u>	lour Month Day <u>/ / / / / / / / /</u> lour Month Day	Year / / ON_SITE_DATETIME Year

PART B – ADDITIONAL LOCATION INFORMATION						
*1. Was the origin of the Accident onshore? ON_OFF_SHORE O Yes (Complete Questions 2-12) (VALUE=ONSHORE) O No (Complete Questions 13-15) (VALUE=OFFSHORE)						
If Onshore:	If Offshore:					
ONSHORE_STATE_ABBREVIATION 2. State: /_ / /	13. Approximate water depth (ft.) at the point of the Accident:					
3. Zip Code: / / / / / / - / - / / / /	/ / /,/ / / OFF_WATER_DEPTH					
4. ONSHORE_CITY_NAME 5 ONSHORE_COUNTY_NAME	14. Origin of Accident: OFF_ACCIDENT_ORIGIN					
City County or Parish DESIGNATED LOCATION 6. Operator-designated location: (select only one)	☐ In State waters OFFSHORE_STATE_ABBREVIATION					
☐ Milepost/Valve Station (specify in shaded area below)	⇒ Specify: State: //_/ OFF_INSTATE_AREA Area:					
☐ Survey Station No. (specify in shaded area below)	OFF_INSTATE_BLOCK Block/Tract #: /_ / / /					
	OFFSHORE_COUNTY_NAME Nearest County/Parish:					
7. Pipeline/Facility name: PIPE_FAC_NAME	☐ On the Outer Continental Shelf (OCS)					
8. Segment name/ID: SEGMENT_NAME	Specific Area. OFF_OCS_AREA					
Was Accident on Federal land, other than the Outer Continental	⇒ Specify: Area: OFF_OCS_AREA Block #: /_ / / / /					
Shelf (OCS)? O Yes O No FEDERAL						
10. Location of Accident: (select only one) LOCATION_TYPE	15. Area of Accident: (select only one) OFF_AREA_ACCIDENT_TYPE					
 ☐ Totally contained on Operator-controlled property ☐ Originated on Operator-controlled property, but then flowed 	 ☐ Shoreline/Bank crossing or shore approach ☐ Below water, pipe buried or jetted below seabed 					
or migrated off the property	☐ Below water, pipe on or above seabed					
☐ Pipeline right-of-way INCIDENT_AREA_TYPE	 ☐ Splash Zone of riser ☐ Portion of riser outside of Splash Zone, including riser 					
11. Area of Accident (as found): (select only one)	bend					
 ☐ Tank, including attached appurtenances ☐ Underground ⇒ Specify: O Under soil 	☐ Platform					
O Under a building O Under pavement						
O Exposed due to excavation O In underground enclosed space (e.g., vault)						
O OtherINCIDENT_AREA_DETAILS						
Depth-of-Cover (in): / /,/ / / DEPTH_OF_COVER ☐ Aboveground ⇒ Specify:						
O Typical aboveground facility piping or appurtenance						
O Overhead crossing O In or spanning an open ditch						
O Inside a building O Inside other enclosed space						
O Other <u>INCIDENT_AREA_DETAILS</u>						
☐ Transition Area ⇒ Specify: O Soil/air interface O Wall						
sleeve O Pipe support or other close contact area O Other INCIDENT_AREA_DETAILS						
CROSSING 12. Did Accident occur in a crossing?: O Yes O No						
If Yes, specify type below: ☐ Bridge crossing → Specify: ○ Cased ○ Uncased ➡	PRINCE CROSSING IND PRINCE TYPE					
☐ Bridge crossing ⇒ Specify: ○ Cased ○ Uncased ☐ Railroad crossing ⇒ (select all that apply) ☐	BRIDGE_CROSSING_IND, BRIDGE_TYPE					
O Cased O Uncased O Bored/drilled	RAILROAD_CROSSING_IND, RAILROAD_TYPE					
☐ Road crossing ⇒ (select all that apply) ○ Cased ○ Uncased ○ Bored/drilled	ROAD_CROSSING_IND, ROAD_TYPE					
☐ Water crossing ☐ Specify: ○ Cased ○ Uncased	WATER_CROSSING_IND, WATER_TYPE					
Name of body of water, if commonly known:						
WATER_NAME						
Approx. water depth (ft) at the point of the Accident: // /,/ / / WATER DEPTH						
(select only one of the following) WATER_SUBTYPE						
O Shoreline/Bank crossing						
O Below water, pipe in bored/drilled crossing						
O Below water, pipe buried below bottom (NOT in bored/drilled crossing)						
O Below water pipe on or above bottom						

PART C – ADDITIONAL FACILITY INFORMATION	
Is the pipeline or facility: PIPE_FACILITY_TYPE Interstate Intrastate	
2. Part of system involved in Accident: (select only one) SYSTEM_I ☐ Onshore Breakout Tank or Storage Vessel, Including Attached	PART_INVOLVED ☐ Appurtenances ☐ O Atmospheric or Low Pressure O Pressurized
 ☐ Onshore Terminal/Tank Farm Equipment and Piping ☐ Onshore Equipment and Piping Associated with Belowground ☐ Onshore Pump/Meter Station Equipment and Piping ☐ Onshore Pipeline, Including Valve Sites ☐ Offshore Platform/Deepwater Port, Including Platform-mounte ☐ Offshore Pipeline, Including Riser and Riser Bend 	
3. Item involved in Accident: (select only one) PIPE_TYPE □ Pipe ⇒ Specify: ○ Pipe Body ○ Pipe Seam	
3.a Nominal diameter of pipe (in): / / / / / /	PIPE DIAMETER
3.b Wall thickness (in): / /./ / / PIPE WALL	THICKNESS
3.c SMYS (Specified Minimum Yield Strength) of pipe (psi):	
3.d Pipe specification: PIPE_SPECIFICATION	
PIPE_SEAM_TYPE 3.e Pipe Seam ⇒ Specify: O Longitudinal ERW - High Freq	uency O Single SAW O Flash Welded
O Longitudinal ERW - Low Fre	
O Longitudinal ERW – Unknow	• •
1	Spiral Welded SAW O Spiral Welded DSAW
O Lap Welded O	Seamless O Other PIPE_SEAM_DETAILS
3.f Pipe manufacturer: PIPE_MANUFACTURER	_
	ACTURE_YEAR
3.h Pipeline coating type at point of Accident PIPE_COATING	-
⇒ Specify: O Fusion Bonded Epoxy O	· · · · · · · · · · · · · · · · · · ·
	Field Applied Epoxy None O Cold Applied Tape O Paint O Other PIPE_COATING_DETAILS
☐ Weld, including heat-affected zone → Specify: ○ Pipe Girth If Pipe Girth Weld is selected, complete items 3.a. through h. abov 3.a. through h. and list the different value(s) in Part H - Narrative I	Weld O Other Butt Weld O Fillet Weld O Other WELD_DETAILS ve. If the values differ on either side of the girth weld, enter one value in
VALVE_TYPE VALVE_MAINLINE_TYPE ☐ Valve O Mainline	O Gate O Plug O Ball O Globe
O Other <u>VALVE_MA</u>	INLINE_DETAILS
3.i Mainline valve manufacturer:	<u> </u>
3.j Year of manufacture: //_	/ / / VALVE_MANUFACTURE_YEAR
O Relief Valve	
O Auxiliary or Other Valve	
☐ Meter/Prover	
☐ Scraper/Pig Trap	
☐ Sump/Separator	
Repair Sleeve or Clamp	
☐ Hot Tap Equipment ☐ Stopple Fitting	
☐ Flange	
☐ Relief Line	
Auxiliary Piping (e.g. drain lines)	
☐ Tubing	
☐ Instrumentation ☐ Tank/Vessel ➡ Specify: ○ Single Bottom System	O Double Bottom System O Tank Shell O Chime
	rain System O Mixer O Pressure Vessel Head or Wall
O Appurtenance O Other	·
☐ OtherITEM_INVOLVED_DETAILS	
4. Year item involved in Accident was installed: / / / / /	INSTALLATION_YEAR

5. Material involved in Accident: (select only one) MATERIAL_INVOLVED
☐ Carbon Steel
☐ Material other than Carbon Steel Specify: MATERIAL_DETAILS PRIFACE TYPE
RELEASE_TYPE 6. Type of Accident involved: (select only one) Mechanical Puncture Approx. size: / / / / ./ ./ in. (axial) by / / / / ./ ./ in. (circumferential) LEAK_TYPE LEAK_TYPE LEAK_TYPE Connection Failure Connection Fai
Overfill or Overflow
☐ Other ➡ Describe:
PART D – ADDITIONAL CONSEQUENCE INFORMATION
1. Wildlife impact: O Yes O No WILDLIFE_IMPACT_IND
1.a If Yes, specify all that apply: ☐ Fish/aquatic FISH_AQUATIC_IMPACT_IND
_
☐ Birds BIRDS_IMPACT_IND ☐ Terrestrial TERRESTRIAL IMPACT_IND
2. Soil contamination: O Yes O No SOIL_CONTAMINATION
3. Long term impact assessment performed or planned: O Yes O No LONG_TERM_ASSESSMENT
4. Anticipated remediation: O Yes O No (not needed) REMEDIATION_IND
4.a If Yes, specify all that apply:
SURFACE_WATER_REMED_IND, GROUNDWATER_REMED_IND, SOIL_REMED_IND, VEGETATION_REMED_IND, WILDLIFE_REMED_IND
☐ Surface water ☐ Groundwater ☐ Soil ☐ Vegetation ☐ Wildlife
5. Water contamination: O Yes → (Complete 5.a – 5.c below) O No WATER_CONTAM_IND
5.a Specify all that apply:
☐ Ocean/Seawater OCEAN_SEAWATER_IND
☐ Surface SURFACE_CONTAM_IND
GROUNDWATER_CONTAM_IND Groundwater_DRINKING_WATER_CONTAM_IND PRIVATE_WELL_CONTAM_IND PUBLIC_WATER_CONTAM_IND
☐ Drinking water ➡ (Select one or both) ○ Private Well ○ Public Water Intake AMOUNT RELEASED
5.b Estimated amount released in or reaching water: / / / /,/ / / / / / Barrels
5.c Name of body of water, if commonly known:REL_WATER_NAME
COULD_BE_HCA 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? O Yes O No COMMODITY_REACHED_HCA 7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)? O Yes O No
7.a If Yes, specify HCA type(s): (select all that apply)
☐ Commercially Navigable Waterway COMMERCIALLY_NAV_IND
Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program? O Yes O No COMMERCIALLY_NAV_YES_NO
☐ High Population Area HIGH_POP_IND Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program? O Yes O No HIGH_POP_YES_NO
☐ Other Populated Area OTHER_POP_IND Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program? O Yes O No OTHER_POP_YES_NO
☐ Unusually Sensitive Area (USA) – Drinking Water USA_DRINKING_IND Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program? O Yes O No USA_DRINKING_YES_NO
 ☐ Unusually Sensitive Area (USA) – Ecological USA_ECOLOGICAL_IND Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program? ○ Yes ○ No USA_ECOLOGICAL_YES_NO

Estimated Property Damage:				
8.a Estimated cost of public and non-Operator pri EST_COST_OPER_PAID \$ / /		<u> </u>		
	ST_COST_GAS_RELEASED	\$ <u>/ </u>		
8.c Estimated cost of Operator's property damage	T_COST_PROP_DAMAGE & repairs	\$ <u>/ </u>		
8.d Estimated cost of Operator's emergency resp	est_cost_emergency onse	\$ <u>/ </u>		
8.e Estimated cost of Operator's environmental re		\$		
8.f Estimated other costs	EST_COST_OTHER	\$/ / / // / / / /		
	ST_COST_OTHER_DETAILS	·		
8.g Total estimated property damage (sum of abo	ove) PRPTY \$/			
and the second s		· · · · · · · · · · · · · · · · · · ·		
PART E – ADDITIONAL OPERATING INFORMATION	N			
Estimated pressure at the point and time of the Accid	dent (psig):	/ / /,/ / / ACCIDENT PSIG		
2. Maximum Operating Pressure (MOP) at the point an	d time of the Accident (osig): <u>/ / /,/ / / MOP_PSIG</u>		
3. Describe the pressure on the system or facility relating	ng to the Accident: (sele			
☐ Pressure did not exceed MOP				
Pressure exceeded MOP, but did not exceed 11	10% of MOP			
☐ Pressure exceeded 110% of MOP	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
relating to the Accident operating under an established		or repairs and pipe movement), was the system or facility pressure limits below those normally allowed by the MOP?		
No PRESSURE_RESTRICTION_IND				
	ED_RESTRICTION_IND	0.11		
4.a Did the pressure exceed this established p	ressure restriction? ISA RESTRICTION IND	O Yes O No		
4.b Was this pressure restriction mandated by	PHMSA or the State?	O PHMSA O State O Not mandated		
5. Was "Onshore Pipeline, Including Valve Sites" OR "C □ No PART_C_QUESTION_2_IND □ Yes □ (Complete 5.a – 5.e below)	late release source:	O Manual O Automatic O Remotely Controlled O Check Valve		
5.c Length of segment initially isolated between	n valves (ft): / /	/ /,/ / / LENGTH_SEGMENT_ISOLATED		
5.d Is the pipeline configured to accommodate	internal inspection tools	? INTERNAL_INSPECTION_IND		
Yes No ➡ Which physical features limit tool accommodation? (select all that apply) Changes in line pipe diameter Presence of unsuitable mainline valves Tight or mitered pipe bends Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) Other ➡ Describe: OTHER_INSPECTION_IND INTERNAL_INSPECTION_DETAILS				
		mplicate the execution of an internal inspection tool run?		
No OPERATION_COMPLICATION				
☐ Yes ➡ Which operational fac				
O Low operating pre O Low flow or abser	nce of flow	_OP_PRESSURE_IND _FLOW_IND		
O Incompatible com O Other → Describ	inounty	MPAT_COMMOD_IND ATIONS_IND INSPECT_COMP_DETAILS		
5.f Function of pipeline system: (select only one) ppp □ > 20% SMYS Regulated Trunkline/Transmission □ ≤ 20% SMYS Regulated Trunkline/Transmission	☐ > 20%	% SMYS Regulated Gathering % SMYS Regulated Gathering		

	_	•	ervisc	•	ion (SCADA)-ba	sed system in plac	ce on the pipe	eline or fa	cility involved in the Accident?
		No Yes ⊏	- >	SCADA_IN_PLACE_IND 6.a Was it operating at the	time of the Acci	dent?	O Yes	O No	SCADA_OPERATING_IND
	_		•	6.b Was it fully functional at			O Yes	O No	SCADA FUNCTIONAL IND
				•					ne calculations) assist with the
				detection of the Accident?	`	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	O Yes	O No	SCADA_DETECTION_IND
				6.d Did SCADA-based infor confirmation of the Accident		alarm(s), alert(s),	event(s), and O Yes	d/or volun O No	ne calculations) assist with the SCADA_CONF_IND
7 \^	lac	a CDM	1 look	detection system in place or	a the pipeline or	facility involved in	the Accident	2	
		No	i ican	CPM_IN_PLACE_IND	i tile pipellile of	racility irrorred irr	ine Accident	f	
		Yes =	⇒	7.a Was it operating at the	time of the Acci	dent?	O Yes	O No	CPM_OPERATING_IND
			•	7.b Was it fully functional at			O Yes	O No	CPM FUNCTIONAL IND
				7.c Did CPM leak detection	system informa	tion (such as alam	n(s), alert(s),	event(s),	and/or volume calculations) assist
				with the detection of the Acc			O Yes	O No	CPM_DETECTION_IND
					-	tion (such as alarr			and/or volume calculations) assist
				with the confirmation of the	Accident?		O Yes	O No	CPM_CONF_IND
8 H	low	was th	ie Acc	cident initially identified for the	e Operator? <i>(se</i>	elect only one)	ACCIDENT_ID	ENTIFIER	
.				etection system or SCADA-b		,,	_		nd/or volume calculations)
				in Test or Other Pressure or			,,	(-),	,
		Contro	ller			☐ Local Operation	g Personnel,	including	contractors
		Air Pat				☐ Ground Patrol			
				from Public	the Assident	☐ Notification fro	m Emergency ACCIDENT_DE		der
				from Third Party that caused					bu On and a mile and a mile
				er , "Local Operating Personr estion 8, specify the following				nd Patroi	by Operator or its contractor" is
						orking for the Ope	rator		
				ition initiated into whether or ect only one) INVESTIGATION		r(s) or control roor	n issues were	e the caus	se of or a contributing factor to the
			•	• /	_	r controller actions	has not vet b	een com	pleted by the Operator (Supplemental
		Repor					, , , , , , , , , , , , , , , , , , , ,		h and share the same deathly a same
				facility was not monitored by	, ,				
				e Operator did not find that are explanation for why the Ope			ictions or con Stigation St		issues was necessary due to:
		(6/07/		explanation for they the ope		- INVE	311GATION_31	IATO3_DL	TALS
		-							
		☐ Ye	es, sp	ecify investigation result(s):	(select all that a	ipply)			
			0	Investigation reviewed work	schedule rotati	ons, continuous h	ours of servic	e (while v	vorking for the Operator) and other
			fact	ors associated with fatigue	INVEST_SCHE	_		,	
			othe	investigation did NOT revie er factors associated with fati					while working for the Operator) and
				INVEST_NO_SCHEDULE_IND		- CAPIGNATION TO THE			
			0	Investigation identified no c	ontrol room issu	es invest	NO CONTROL	ROOM I	ND
			0	Investigation identified no c		_	NO CONTROL		
			0	Investigation identified inco	rrect controller a	_	_		RECT_ACTION_IND
			0			e affected the con	troller(s) invo	lved or in	npacted the involved controller(s)
			res _l	oonse INVEST_FATIGUE_I Investigation identified inco		INVEST INCOR	BECT DECCED	HIRE IND	
			0	Investigation identified inco					RRECT_CONTROL_IND
			Ö	Investigation identified mair	ntenance activiti			_	procedures, and/or controller
			_	response INVEST_MA	INT_IND		·		
			0	Investigation identified area	is other than tho	se above ⇒ Des	cribe: INVE	JI_UIMEN	R_IND, INVEST_OTHER_IND_DETAILS
			_						
					<u> </u>				

PART F - DRUG & ALCOHOL TEST	ING I	NFORMATION			
As a result of this Accident, were a Drug & Alcohol Testing regulation O No O Yes ★1.a Specify how materials.	s?	erator employees tested under the post-accident drug and alcohol testing requirements of DOT's EMPLOYEE_DRUG_TEST_IND ere tested: / / / NUM_EMPLOYEES_TESTED			
*1.b Specify how ma	any fa	led: / / / NUM_EMPLOYEES_FAILED			
As a result of this Accident, were a of DOT's Drug & Alcohol Testing O No		erator contractor employees tested under the post-accident drug and alcohol testing requirements tions? CONTRACTOR_DRUG_TEST_IND			
O Yes 🖒 *2.a Specify how ma	any we	ere tested: // NUM_CONTRACTORS_TESTED			
*2.b Specify how m	anv fa	iled: / / NUM_CONTRACTORS_FAILED			
PART G – APPARENT CAUSE		Select only one box from PART G in the shaded column on the left representing the APPARENT Cause of the Accident, and answer the questions on the right. Describe			
CAUSE, CAUSE_DETAILS (sub-cause)		secondary, contributing, or root causes of the Accident in the narrative (PART H).			
G1 - Corrosion Failure – *only one sub-cause can be picked from shaded left-hand column INTERNAL_EXTERNAL					
☐ External Corrosion		Results of visual examination: VISUAL_EXAM_RESULTS O Localized Pitting O General Corrosion O Other VISUAL_EXAM_DETAILS			
		Type of corrosion: (select all that apply) GALVANIC_CORROSION_IND, ATMOSPHERE_CORROSION_IND, STRAY_CURRENT_CORROSION_IND, MICROBIOLOGICAL_CORROSION_IND, SELECTIVE_SEAM_CORROSION_IND O Galvanic O Atmospheric O Stray Current O Microbiological O Selective Seam Other OTHER_CORROSION_IND, CORROSION_TYPE_DETAILS			
		3. The type(s) of corrosion selected in Question 2 is based on the following: (select all that apply) FIELD_EXAM_BASIS_IND METALLURGICAL_BASIS_IND O Field examination O Determined by metallurgical analysis O Other OTHER_BASIS_IND, CORROSION_BASIS_DETAILS			
		4. Was the failed item buried under the ground? UNDERGROUND LOCATION O Yes 4.a Was failed item considered to be under cathodic protection at the time of the Accident? UNDER_CATHODIC_PROTECTION_IN O Yes Year protection started: O No CATHODIC_PRO_START_YEAR			
		 4.b Was shielding, tenting, or disbonding of coating evident at the point of the Accident? SHIELDING_EVIDENT Yes No 			
CP_ANNUAL_SURVEY_IND, _YEAR	⇧	 4.c Has one or more Cathodic Protection Survey been conducted at the point of the Accident? CATHODIC_SURVEY_TYPE ○ Yes, CP Annual Survey → Most recent year conducted: / / / / / 			
CLOSE_INTERVAL_SURVEY_IND, _YEAR	\Rightarrow	O Yes, Close Interval Survey → Most recent year conducted: / / / / /			
OTHER_CP_SURVEY_IND, _YEAR		O Yes, Other CP Survey ⇒ Most recent year conducted:			
		O No			
		EXTERNALLY_COATED ○ No → 4.d Was the failed item externally coated or painted? ○ Yes ○ No			
		 Was there observable damage to the coating or paint in the vicinity of the corrosion? Yes No PRIOR_DAMAGE 			

☐ Internal Corrosion	6. Results of visual examination: INT_VISUAL_EXAM_RESULTS O Localized Pitting O General Corrosion O Not cut open O Other INT_VISUAL_EXAM_DETAILS		
	7. Cause of corrosion: (select all that apply)		
	INT_CORROSIVE_COMMODITY_IND, INT_WATER_ACID_IND, INT_MICROBIOLOGICAL_IND		
	O Corrosive Commodity O Water drop-out/Acid O Microbiological O Erosion O Other INT_OTHER_CORROSION_IND, INT_CORROSION_TYPE_DETAILS INT_EROSION_IND		
	8. The cause(s) of corrosion selected in Question 7 is based on the following: (select all that apply) INT_FIELD_EXAM_BASIS_IND, INT_METALLURGICAL_BASIS_IND O Field examination O Determined by metallurgical analysis O OtherINT_OTHER_BASIS_IND, INT_CORROSION_BASIS_DETAILS		
	9. Location of corrosion: (select all that apply)		
	INT_LOW_POINT_PIPE_LOC_IND, INT_ELBOW_LOC_IND, INT_OTHER_LOC_IND O Low point in pipe O Elbow O Other CORROSION_LOCATION_DETAILS		
	CORROSION_INHIBITORS 10. Was the commodity treated with corrosion inhibitors or biocides? O Yes O No CORROSION_LINING		
	 11. Was the interior coated or lined with protective coating? O Yes O No CLEANING DEWATERING 12. Were cleaning/dewatering pigs (or other operations) routinely utilized? O Not applicable - Not mainline pipe O Yes O No 		
	O Not applicable - Not mainline pipe O Yes O No CORROSION COUPONS 13. Were corrosion coupons routinely utilized?		
	O Not applicable - Not mainline pipe O Yes O No		
Complete the following if any Corrosion F Tank/Vessel.	Failure sub-cause is selected AND the "Item Involved in Accident" (from PART C, Question 3) is		
14. List the year of the most recent inspe 14.a API Std 653 Out-of-Service In:	spection O No Out-of-Service Inspection completed		
14.b API Std 653 In-Service Inspec	tion / / / / O No In-Service Inspection completed API_STD_IN_SERVICE_YEAR API_STD_IN_SERVICE_IND		
Complete the following if any Corrosion F	Failure sub-cause is selected AND the "Item Involved in Accident" (from PART C, Question 3) is		
·	ol collected data at the point of the Accident?		
	t type of internal inspection tool and indicate most recent year run:		
O Magnetic Flux Leakage Tool	/ / / / /COR_MAGNETIC_FLUX_LEAKAGE_IND, COR_MAG_FLUX_LEAKAGE_YEAR		
O Ultrasonic	COR_ULTRASONIC_IND, _YEAR		
O Geometry	/ / / / COR_GEOMETRY_IND , _YEAR		
O Caliper	/ / / / COR_CALIPER_IND , _YEAR		
O Crack	/ / / COR_CRACK_IND , _YEAR		
O Hard Spot	COR_HARDSPOT_IND, _YEAR		
O Combination Tool	COR_COMBINATION_TOOL_IND, _YEAR		
O Transverse Field/Triaxial	COR_TRANSVERSE_FIELD_IND , _YEAR		
O Other			
COR_HYDROTEST_CONDUCTED_IND	essure test been conducted since original construction at the point of the Accident?		
O Yes → Most recent year teste			
17. Has one or more Direct Assessment be	een conducted on this segment? DIRECT_INSPECTION_TYPE DIRECT_YES_DIG_YEAR was conducted at the point of the Accident Most recent year conducted: / / / /		
	ent was not identified as a dig site Most recent year conducted: //// / DIRECT_YES_NO_DIG_YEAR		
	nination been conducted at the point of the Accident since January 1, 2002?		
	ducted since January 1, 2002, select type of non-destructive examination and indicate most recent		
O Radiography	/ / / / COR_RADIOGRAPHY_IND,_YEAR		
O Guided Wave Ultrasonic			
	/ / / / COR_GUIDED_WAVE_IND,_YEAR		
O Handheld Ultrasonic Tool	/ / / / COR_GUIDED_WAVE_IND,_YEAR / / / / / COR_HANDHELD_ULTRA_IND,_YEAR		
O Wet Magnetic Particle Test	/ / / / COR_HANDHELD_ULTRA_IND,_YEAR / / / / / COR_WET_MAGNETIC_IND,_YEAR		
	/ / / / COR_HANDHELD_ULTRA_IND,_YEAR / / / / COR_WET_MAGNETIC_IND,_YEAR / / / / COR_DRY_MAGNETIC_IND,_YEAR		

	e - *only one sub-cause can be picked from shaded left-hand column
NATURAL_FORCE_TYPE ☐ Earth Movement, NOT due to Heavy Rains/Floods	1. Specify: O Earthquake O Subsidence O Landslide O Other NF_OTHER_DETAILS
☐ Heavy Rains/Floods	PEAVY RAINS_SUBTYPE 2. Specify: O Washout/Scouring O Flotation O Mudslide O Other NF_OTHER_DETAILS
☐ Lightning	LIGHTNING SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires
☐ Temperature	TEMPERATURE_SUBTYPE 4. Specify: O Thermal Stress O Frost Heave O Frozen Components O Other NF_OTHER_DETAILS
☐ High Winds	
☐ Other Natural Force Damage	5. Describe: NF_OTHER_DETAILS
Complete the following if any Natural Force 6. Were the natural forces causing the Accidental forces (select all that apply)	lent generated in conjunction with an extreme weather event? O Yes O No NF_HURRICANE_IND NF_TROPICAL_STORM_IND NF_TORNADO_IND O Hurricane O Tropical Storm O Tornado O Other NF_OTHER_IND NF_EXTREME_WEATHER_DETAILS
G3 – Excavation Damage -	*only one sub-cause can be picked from shaded left-hand column
☐ 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	Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from PART C, Question 3) is Pipe or Weld.
	Has one or more internal inspection tool collected data at the point of the Accident? O Yes O No
	1.a If Yes, for each tool used, select type of internal inspection tool and indicate most recent year run:
EX_MAGNETIC_FLUX_LEAKAGE_IND, _YEAR EX_ULTRASONIC_IND, _YEAR EX_GEOMETRY_IND, _YEAR EX_CALIPER_IND, _YEAR EX_CRACK_IND, _YEAR EX_HARDSPOT_IND, _YEAR EX_COMBINATION_TOOL_IND, _YEAR EX_TRANSVERSE_FIELD_IND, _YEAR EX_INSPECTION_OTHER_IND, _YEAR, _DETAILS	O Magnetic Flux Leakage O Ultrasonic O Geometry O Caliper O Crack O Hard Spot O Combination Tool O Transverse Field/Triaxial O Other O Magnetic Flux Leakage
	2. Do you have reason to believe that the internal inspection was completed BEFORE the damage was sustained? O Yes O No EX_BEFORE_DAMAGE
	3. Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Accident? EX_HYDROTEST_CONDUCTED_IND O Yes Most recent year tested: Test pressure (psig): EX_DIRECT_INSPECTION_TYPE 4. Has one or more Direct Assessment been conducted on the pipeline segment? O Yes, and an investigative dig was conducted at the point of the Accident Most recent year conducted: Yes, but the point of the Accident was not identified as a dig site Most recent year conducted: Not recent year year year year year year year year

	5. Has one or more non-destructive examination been conducted at the point of the Accident since January 1, 2002? O Yes O No			
	5.a If Yes, for each examination conducted since destructive examination and indicate most recent			
EX_RADIOGRAPHY_IND, _YEAR	O Radiography	<u>/ / / / / /</u>		
EX_GUIDED_WAVE_IND, _YEAR	O Guided Wave Ultrasonic	<u>/ / / / / /</u>		
EX_HANDHELD_ULTRA_IND , _YEAR →	O Handheld Ultrasonic Tool	<u> </u>		
EX_WET_MAGNETIC_IND, _YEAR 🖒	O Wet Magnetic Particle Test	<u> </u>		
EX_DRY_MAGNETIC_IND , _YEAR 🖒	O Dry Magnetic Particle Test O Other	<u> </u>		
		ETAILS		
Complete the following if Excavation Damage	by Third Party is selected as the sub-cause.			
6. Did the Operator get prior notification of the e	xcavation activity? O Yes O Nov PRIOR_NOTIFI	CATION_IND		
6.a If Yes, Notification received from: (sele		O Contractor O Landowner D, CONTRACTOR_IND, LANDOWNER_IND		
Complete the following mandatory CGA-DIRT	Program questions if any Excavation Damage sub-cau	se is selected.		
7. Do you want PHMSA to upload the following	nformation to CGA-DIRT (www.cga-dirt.com)? OYes	O No NOTIFY_CGA_DIRT		
8. Right-of-Way where event occurred: (select a	all that apply)			
PUBLIC_ROW_IND, PUBLIC_SUBTYPE ☐ Public ➡> Specify: ○ City Street PRIVATE_ROW_IND, PRIVATE_SUBTYPI ☐ Private ➡> Specify: ○ Private Lando	State Highway O County Road O Interstate High wner O Private Business O Private Easement	way O Other		
☐ Pipeline Property/Easement	PIPELINE EASEMENT ROW IND			
☐ Power/Transmission Line	POWER_TRANSMISSION_ROW_IND			
☐ Railroad	RAILROAD_ROW_IND			
☐ Dedicated Public Utility Easement ☐ Federal Land	PUBLIC_UTIL_EASEMENT_ROW_IND FEDERAL LAND ROW IND			
☐ Data not collected	DATA_NOT_COLLECTED_ROW_IND			
☐ Unknown/Other	UNKNOWN_ROW_IND			
9. Type of excavator: (select only one) EXCAV	ATOR_TYPE			
· · · · · · · · · · · · · · · · · · ·	Developer O Farmer O Municipality Utility O Data not collected	O Occupant O Unknown/Other		
10. Type of excavation equipment: (select only	one) EXCAVATOR_EQUIPMENT			
O Auger O Backhoe/Trackho	e O Boring O Drilling	O Directional Drilling		
O Explosives O Farm Equipment	O Grader/Scraper O Hand Tools	O Milling Equipment		
O Probing Device O Trencher	O Vacuum Equipment O Data not collected	O Unknown/Other		
11. Type of work performed: (select only one)	WORK_PERFORMED			
O Agriculture O Cable TV	O Curb/Sidewalk O Building Construction	O Building Demolition		
O Drainage O Driveway O Grading O Irrigation	O Electric O Engineering/Surveying O Landscaping O Liquid Pipeline	O Fencing O Milling		
O Natural Gas O Pole	O Public Transit Authority O Railroad Maintenance	O Road Work		
O Sewer (Sanitary/Storm) O Site Deve	•	OStreet Light		
O Telecommunications OTraffic Sign O Data not collected O Unknown/		O Waterway Improvement		
ONE_CALL_NOTIFIED_IND 12. Was the One-Call Center notified? O Ye	s O No			
	ONE_CALL_TICKET_NUM			
· · · · —	n a single One-Call Center exists, list the name of the On	e-Call Center notified:		
	CENTER NAME			
13. Type of Locator: LOCATOR_TYPE O Utility	_	ected O Unknown/Other		
VISIBLE 1 14. Were facility locate marks visible in the area	MARKS	ected O Unknown/Other		
,	S_MARKED O No O Yes O Data not o	ollected O Unknown/Other		
16. Did the damage cause an interruption in ser	INTERRUPTION vice? O No O Yes O Data not coll	ected O Unknown/Other		
16.a If Yes, specify duration of the int	erruption: / <u>///</u> /hours service_inte	RRUPTION_HOURS		

	f the CGA-DIRT Root Cause (select only the one predominant first level CGA-DIRT Root Cause and then, where available ne predominant second level CGA-DIRT Root Cause as well): ROOT_CAUSE
□ <u>One</u>	e-Call Notification Practices Not Sufficient: (select only one) ONE_CALL_SUBTYPE
	O No notification made to the One-Call Center
	O Notification to One-Call Center made, but not sufficient
	O Wrong information provided
☐ <u>Loc</u>	cating Practices Not Sufficient: (select only one)
	O Facility could not be found/located
	O Facility marking or location not sufficient
	O Facility was not located or marked
	O Incorrect facility records/maps
□ Exc	avation Practices Not Sufficient: (select only one) EXCAVATION SUBTYPE
	O Excavation practices not sufficient (other)
	O Failure to maintain clearance
	O Failure to maintain the marks
	O Failure to support exposed facilities
	O Failure to use hand tools where required
	O Failure to verify location by test-hole (pot-holing)
	O Improper backfilling
□ <u>One</u>	e-Call Notification Center Error
□ Aba	andoned Facility
□ <u>Dete</u>	eriorated Facility
☐ Pre	vious Damage
□ <u>Data</u>	a Not Collected
☐ Othe	er / None of the Above (explain) ROOT_CAUSE_OTHER

G4 - Other Outside Force Dan	G4 - Other Outside Force Damage - *only one sub-cause can be picked from shaded left-hand column				
OUTSIDE_FORCE_TYPE Nearby Industrial, Man-made, or Other Fire/Explosion as Primary Cause of Accident					
☐ Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation	VEHICLE_SUBTYPE 1. Vehicle/Equipment operated by: (select only one) O Operator O Operator O Operator O Third Party				
☐ Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipment or Vessels Set Adrift or Which Have Otherwise Lost Their Mooring	Select one or more of the following IF an extreme weather event was a factor: OSF HURRICANE_IND OSF TROPICAL STORM_IND OSF TORNADO_IND OSF TORNADO_IND OSF_OTHER_WEATHER_IND OSF_HEAVY_RAINS_IND OSF_OTHER_WEATHER_DETAILS				
☐ 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	Complete Questions 3-7 ONLY IF the "Item Involved in Accident" (from PART C, Question 3) is Pipe or Weld.				
	Has one or more internal inspection tool collected data at the point of the Accident? OSF_INSPECT_TOOL_COLLECTED_IND O Yes O No				
	3.a If Yes, for each tool used, select type of internal inspection tool and indicate most recent year run:				
OSF_MAGNETIC_FLUX_LEAKAGE_IND , _YEAR 🖒	O Magnetic Flux Leakage <u>/ / / / /</u>				
OSF_ULTRASONIC_IND, _YEAR	O Ultrasonic <u>/ / / / /</u>				
OSF_GEOMETRY_IND, _YEAR ⇒	O Geometry <u>/ / / / /</u>				
OSF_CALIPER_IND , _YEAR 🖒	O Caliper <u>/ / / / /</u>				
OSF_CRACK_IND , _YEAR 🖒	O Crack <u>/ / / / /</u>				
OSF_HARDSPOT_IND , _YEAR 🖒	O Hard Spot				
OSF_COMBINATION_TOOL_IND , _YEAR	O Combination Tool / / / / / O Transverse Field/Triaxial / / / / /				
OSF_INSPECTION_OTHER_IND , _YEAR , _DETAILS					
/- /-	Do you have reason to believe that the internal inspection was completed BEFORE the damage was sustained? O Yes O No OSF_BEFORE_DAMAGE				
	5. Has one or more hydrotest or other pressure test been conducted since original construction				
	at the point of the Accident?OSF_HYDROTEST_CONDUCTED_IND OSF_HYDROTEST_CONDUCTED_YEAR				
	O Yes → Most recent year tested: / / / / / / /				
	Test pressure (psig): / / /, / / / / O No OSF_HYDROTEST_PRESSURE				
	OSF_DIRECT_INSPECTION_TYPE 6. Has one or more Direct Assessment been conducted on the pipeline segment?				
	O Yes, and an investigative dig was conducted at the point of the Accident				
	OSF_DIRECT_YES_DIG_YEAR ⇒ Most recent year conducted: /_ / / / /				
	O Yes, but the point of the Accident was not identified as a dig site				
	→ Most recent year conducted: / / / / / / / / / / / / / / / / / / /				
	O No OSF_DIRECT_YES_NO_DIG_YEAR				
	7. Has one or more non-destructive examination been conducted at the point of the Accident since January 1, 2002? O Yes O No OSF_NON_DESTRUCTIVE_IND				
	(This section continued on next page with Question 7.a.)				

		for each examination conducted since January 1, 2002, select type of non- examination and indicate most recent year the examination was conducted:				
OSF RADIOGRAPHY IND, YEAR OSF_GUIDED_WAVE_IND , _YEAR OSF_HANDHELD_ULTRA_IND, _YEAR OSF_WET_MAGNETIC_IND, _YEAR OSF_DRY_MAGNETIC_IND , _YEAR OSF_NON_DEST_OTHER_IND, _YEAR ▷	O Handl O Wet M O Dry M	graphy If the distribution of the distributio				
☐ Intentional Damage	0 V 0 T	NTENTIONAL_SUBTYPE andalism O Terrorism heft of transported commodity O Theft of equipment other INTENTIONAL_DETAILS				
☐ Other Outside Force Damage	9. Describe: _	OSF_OTHER_DETAILS				
G5 - Material Failure of Pipe	or Weld	Use this section to report material failures ONLY IF the "Item Involved in Accident" (from PART C, Question 3) is "Pipe" or "Weld."				
		*Only one sub-cause can be picked from shaded left-hand column				
The sub-cause selected below is based on the fifting the samination	ırgical Analysis	☐ Other Analysis_OTHER_ANALYSIS_IND, OTHER_ANALYSIS_DETAILS				
FAILURE_TYPE	•	ng factors: (select all that apply) FAILURE_SUBTYPE_1, _2				
☐ Construction-, Installation-, or Fabrication-related	☐ Fatigue- o ○ Mec ○ Mec	or Vibration-related: FATIGUE_VIBR_RELATED_1, _2 hanically-induced prior to installation (such as during transport of pipe) hanical Vibration				
☐ Original Manufacturing-related	O Ther	ssure-related mail				
(NOT girth weld or other welds formed in the field)	O Other FATIGUE_VIBR_RELATED_OTHER_1, _2 □ Mechanical Stress MECHANICAL_STRESS_1, _2 □ Other OTHER_FACTOR_1, _2 OTHER_FACTOR_DETAILS_1, _2					
☐ Environmental Cracking-related		Stress Corrosion Cracking O Sulfide Stress Cracking STRESS_SUBTYPE STRESS Cracking O Other STRESS_DETAILS				
Complete the following if any Material Failure of Pipe or Weld sub-cause is selected. ADDITIONAL_DENT_IND, ADDITIONAL_GOUGE_IND, ADDITIONAL_PIPE_BEND_IND, ADDITIONAL_ARC_BURN_IND, ADDITIONAL_CRACK_IND, 4. Additional factors: (select all that apply)						
5.a If Yes, for each tool used, select type of intO Magnetic Flux Leakage Tool	ernal inspection to	ool and indicate most recent year run: // PWF MAGNETIC FLUX LEAKAGE IND, PWF MAG FLUX LEAKAGE YEAR				
O Ultrasonic	1 1 1	/ PWF_ULTRASONIC_IND, _YEAR				
O Geometry O Caliper	<u> </u>	_// PWF_GEOMETRY_IND, _YEAR _// PWF_CALIPER_IND , _YEAR				
O Crack	1 1 1	PWF_CRACK_IND , _YEAR				
O Hard Spot O Combination Tool	<u> </u>	_// PWF_HARDSPOT_IND , _YEAR _/ / PWF COMBINATION TOOL IND , YEAR				
O Transverse Field/Triaxial O Other	<u> </u>	/ PWF_TRANSVERSE_FIELD_IND , _YEAR / PWF_INSPECTION_OTHER_IND , _YEAR, _DETAILS				
PWF_HYDROTEST_CONDUCTED_IND 6. Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Accident? ○ Yes → Most recent year tested: / / / / / Test pressure (psig): / / / / / / / /						
O No PWF_HYDROTEST_CONDUCTED_YEAR PWF_HYDROTEST_PRESSURE PWF_DIRECT_INSPECTION_TYPE 7. Has one or more Direct Assessment been conducted on the pipeline segment? O Yes, and an investigative dig was conducted at the point of the Accident How the property of the Accident How th						
O Yes, but the point of the Accident was r	•	· · · · · · · · · · · · · · · · · · ·				
NON DEST IND Has one or more non-destructive examination(s) O Yes O No	been conducted					
8.a If Yes, for each examination conducted since January 1, 2002, select type of non-destructive examination and indicate most recent year the examination was conducted:						
O Radiography O Guided Wave Ultrasonic	<u> </u>	// PWF_RADIOGRAPHY_IND, _YEAR _/ PWF_GUIDED_WAVE_IND , _YEAR				
O Handheld Ultrasonic Tool	<u></u>	/ / / PWF_HANDHELD_ULTRA_IND , _YEAR				
O Wet Magnetic Particle Test O Dry Magnetic Particle Test	<u> </u>	<u>/ / / / PWF_WET_MAGNETIC_IND</u> , _YEAR <u>/ / / / PWF_DRY_MAGNETIC_IND</u> , _YEAR				
O Other	1 1	/ / / PWF_NON_DEST_OTHER_IND , _YEAR , _DETAILS				

G6 - Equipment Failure - *only one sub-cause can be picked from shaded left-hand column					
EQ_FAILURE_TYPE Malfunction of Control/Relief Equipment	CONTROL_VALVE_IND, INSTRUMENTATION_IND, SCADA_IND, COMMUNICATIONS_IND, BLOCK_VALVE_IND 1. Specify: (select all that apply)				
☐ Pump or Pump-related Equipment	OTHER_PUMP_IND 2. Specify: O Seal/Packing Failure O Body Failure O Crack in Body O Appurtenance Failure O Other OTHER_PUMP_DETAILS				
☐ Threaded Connection/Coupling Failure	OTHER_STRIPPED_IND 3. Specify: O Pipe Nipple O Valve Threads O Mechanical Coupling O Threaded Pipe Collar O Threaded Fitting O Other OTHER_STRIPPED_DETAILS				
☐ Non-threaded Connection Failure	OTHER_NON_THREADED_IND 4. Specify: O O-Ring O Gasket O Seal (NOT pump seal) or Packing O Other OTHER_NON_THREADED_DETAILS				
☐ Defective or Loose Tubing or Fitting					
☐ Failure of Equipment Body (except Pump), Tank Plate, or other Material					
☐ Other Equipment Failure	5. Describe: FAILURE_DETAILS				
Complete the following if any Equipment Fail	lure sub-cause is selected.				
O Dissimilar metals O Breakdown of soft goods due to c	ADDITIONAL_VIBRATION_IND ADDITIONAL_OVERPRESSURE_IND ADDITIONAL_SUPPORT_IND ADDITIONAL_DEFECT_IND ADDITIONAL_ELECTRICITY_IND ADDITIONAL_INSTALLATION_IND ADDITIONAL_MISMATCH_IND Iffacturer for tubing and tubing fittings) ADDITIONAL_DISSIMILAR_IND Ompatibility issues with transported commodity add to the release ADDITIONAL_VALVE_IND ADDITIONAL_ALARM_IND IEF_ADDL_MISALIGNMENT_IND ADDITIONAL_THERMAL_IND EQ_ADDITIONAL_OTHER_IND, _ EQ_ADDITIONAL_OTHER_DETAILS				

G7 - Incorrect Operation - *only one sub-cause can be picked from shaded left-hand column							
OPERATION_TYPE Damage by Operator or Operator's Contractor NOT Related to Excavation and NOT due to Motorized Vehicle/Equipment Damage							
☐ Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or Overflow	OVERFLOW_OTHER_IND 1. Specify: O Valve misalignment O Incorrect reference data/calculation O Miscommunication O Inadequate monitoring O Other OVERFLOW_OTHER_DETAILS						
☐ 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							
☐ Other Incorrect Operation	2. Describe: OPERATION_DETAILS						
Complete the following if any Incorrect Oper	ration sub-cause is selected.						
3. Was this Accident related to: (select all that O Inadequate procedure O No procedure established O Failure to follow procedure	3. Was this Accident related to: (select all that apply) O Inadequate procedure RELATED_INADEQUATE_PROC_IND O No procedure established RELATED_NO_PROC_IND						
O Other: RELATED_OTHER_II	·						
4. What category type was the activity that cat	used the Accident: CATEGORY_TYPE						
O Normal operating conditions	(abnormal operations or emergencies)						
OPERATOR_QUALIFICATION_IND	O Non-routine operating conditions (abnormal operations or emergencies) OPERATOR_QUALIFICATION_IND 5. Was the task(s) that led to the Accident identified as a covered task in your Operator Qualification Program? O Yes O No						
	orming the task(s) qualified for the task(s)? QUALIFIED_INDIVIDUALS						
	O Yes, they were qualified for the task(s)						
O No, but they were performing the task(s) under the direction and observation of a qualified individual O No, they were not qualified for the task(s) nor were they performing the task(s) under the direction and observation of a qualified individual							
G8 – Other Accident Cause - *only one sub-cause can be picked from shaded left-hand column							
OTHER_TYPE	1. Describe: MISC_DETAILS						
☐ Miscellaneous							
☐ Unknown	O Investigation complete, cause of Accident unknown O Still under investigation, cause of Accident to be determined* (*Supplemental Report required)						

PART H – NARRATIVE DESCRIPTION OF THE ACCIDENT	(Attach additional sheets as necessary)
NARRATIVE	
PART I – PREPARER AND AUTHORIZED SIGNATURE	
PREPARER_NAME	PREPARER_TELEPHONE
Preparer's Name (type or print)	Preparer's Telephone Number
PREPARER_TITLE	Freparer's Telephone Number
Preparer's Title (type or print)	
	DDEDADED EAV
PREPARER_EMAIL	PREPARER_FAX
Preparer's E-mail Address	Preparer's Facsimile Number PREPARED_DATE AUTHORIZER_TELEPHONE
Authorized Signer's Name	Date Authorized Signer Telephone Number
AUTHORIZER_NAME	
Authorized Signer's Title	Authorized Signer's E-mail Address
AUTHORIZER_TITLE	AUTHORIZER_EMAIL

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

Field Name	Field Name Description
IYEAR	Year accident occurred, derived from accident date