464173	RSPA-1998-9951-145
NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a for each day that such violation persists except that the maximum civil penalty shall.	a civil penalty not to exceed \$25,000 for each violation routin Approved not exceed \$500,000 as provided in 49 USC 1678. OMB No. 2137-0522
INCIDENT REPORT - GAS 7	
U.S. Department of Transportation Pipeline and Hazardous Materials Safety GATHERING S	YSTEMS
Administration	(DOT Use Only)
INSTRUCTIONS	adding this form before you begin. They clarify the
information requested and provide specific ex-	amples. If you do not have a copy of the instructions, you
can obtain one from the Office Of Pipeline Sat	fety Web Page at <u>http://ops.dot.gov</u> .
PART A - GENERAL REPORT INFORMATION Check one: Check on	ainal Report 🔲 Supplemental Report 🛄 Final Report
Operator Name and Address	
a. Operator's 5-digit Identification Number (when known) /_/_/_/	/
b. If Operator does not own the pipeline, enter Owner's 5-digit Identific	ation Number (when known) //_/_/
c. Name of Operator	
d. Operator street address	
City, County or Parrish, State and Zip Code	1
2. Time and date of the incident 5.	Consequences (check and complete all that apply)
	Employees: / / / General Public: / /
nr. monur vay year 3 Location of incident	Non-employee Contractors: / / / /
a	b. Injury requiring inpatient
Nearest street or road	hospitalization Total number of people: <u>1</u> <u>1</u>
City and County or Parrish	Employees: <u>I</u> General Public: <u>I</u>
C	Non-employee Contractors. <u>1</u> <u>1</u>
d. Mile Post/Valve Station	C LI Property damagenoss (estimated) 1 day 4
e. Survey Station No.	Public/private property damage \$
f. Latitude: Longitude:	d. Release Occurred in a 'High Consequence Area'
(if not available, see instructions for now to provide specific ideation)	e. 🗋 Gas ignited – No explosion f. 🗖 Explosion
Onshore: O Class 1 O Class 2 O Class 3 O Class 4	g. Evacuation (general public only) <u>[]] </u> people
Offshore: O Class 1 (complete rest of this item)	Reason for Evacuation:
Area Block #	O Emergency worker or public official ordered, precautionary
State / / / or Outer Continental Shelf	Elapsed time until area was made safe:
h. Incident on Federal Land other than Outer Continental Sherr	<u>/ / /</u> hr. <u>/ / /</u> min.
i. Is pipeline Interstate O Yes O No 7.	Telephone Report
4. Type of leak or rupture	<u>IIIIIIIIIIIIIIIIIIIIIIIIIIIIII</u> NPC Report Number month day year
O Leak: OPinhole OConnection Failure (complete sec. F5) 8.	a. Estimated pressure at point and time of incident:
O Puncture, diameter (inches)	PSIG
O Rupture: O Circumferential – Separation	b. Max. allowable operating pressure (MAOP): PSIG
O Longitudinal	c. MAOP established by 49 CFR section:
- Transaction Length total both sides (feet)	$\Box 192.619 (a)(4) \Box 192.619 (a)(c)$
O N/A	d. Did an overpressurization occur relating to the incident? OYes O No
O Other:	
PART B - PREPARER AND AUTHORIZED SIGNATURE	
	Area Code and Telephone Number
(type or print) Preparer's Name and Title	
	Area Code and Facsimile Number
Preparer's E-mail Address	

Form	PHMSA	F	7100.2	((01-20	02)

Authorized Signature

(type or print) Name and Title Reproduction of this form is permitted

Date

Area Code and Telephone Number

PART C - ORIGIN OF THE INCIDENT				
1. Incident occurred on		3.	Material involved (pipe, fitting,	or other component)
O Transmission System			O Steel	
O Gathering System	o		O Plastic (If plastic, complet	e all items that apply in a-c)
O Transmission Line of Distribution	System		Plastic failure was: La a.	
2. Failure occurred on				
O Body of pipe O Pipe Seam	1	4.	Part of system involved in incid	O Regulator/Metering System
O Component			O Compressor Station	O Other:
O Other:		5	Year the pipe or component wh	hich failed was installed: / / / /
		·····		
PART D - MATERIAL SPECIFICATION	(if applicable)	1	PARTE - ENVIRONMENT	
1. Nominal pipe size (NPS)		/ in.	1. Area of incident	O In open ditch
2. Wall thickness	//_/_/_	_/ in.		O Above ground
3. Specification SM	YS <u>/ / / /</u>	<u> </u>	O Inside/under building	O Other:
4. Seam type		-	2. Depth of cover:	inches
5. Valve type		_		
6. Pipe or valve manufactured by				in year //_/_/_/
	Important: The	re are 25 numbe	red causes in this section. Che	ck the box to the left of the primary cause
PART F – APPARENT CAUSE	of the incident. C indicate. See the	neck one circle instructions for	in each of the supplemental iter this form for guidance.	ns to the right of of below the cause you
F1 – CORROSION If eiti	her F1 (1) External	Corrosion, or F1	(2) Internal Corrosion is checke	ed, complete all subparts a – e.
a. Pi	pe Coating	b. Visual Exami	nation c.	Cause of Corrosion
0	Bare	O Localized	Pitting	O Galvanic O Stray Current
1. External Corrosion	Coated	O General C	Corrosion	O Improper Cathodic Protection
		O Other:		O Microbiological
		Í		O Stress Corrosion Cracking
				O Otner:
d. W	as corroded part of	pipeline conside	ered to be under cathodic protect	tion prior to discovering incident?
		lamaged in the	rotatied: $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	
	No O Yes.	How long prior	to incident: / / / / / / / / /	rs / / / months
E2 NATURAL EORCES				
72 = NATURAL FORCES	Sathauako		O Landslide O Other:	
	Lannyuake	Coubsidence		
5. \square Heavy Rains/Floods \Rightarrow O V	/vashouts	O Flotation		
6. \Box Temperature \Rightarrow O	Thermal stress	O Frost heave	O Frozen components	O Other:
7. LI High Winds				
F3 - EXCAVATION				
8. 🔲 Operator Excavation Damage	(including their con	ntractors) / Not T	hird Party	
9. 🗖 Third Party Excavation Damag	ge (complete a-d)			
a. Excavator group			han Operator/pubaantrootor	
h Type: O Road Work O	Pineline O Wat	er O Flectric	O Sewer O Phone/Cable	O Landowner O Railroad
O Other:				
c. Did operator get prior notific	cation of excavation	n activity?		
O No O res: Date re	ceived: <u>/_//</u>	Dne Call System	O Excavator O Contrac	tor O Landowner
d. Was pipeline marked?				
O No O Yes (If Yes, ch	neck applicable iten	ns i - iv)	(os O Paint	
ii Permanent	markings. O Play markings: O Yes	s O No		
iii. Marks were	e (check one)) Accurate O	Not Accurate	
	s made within requi	ired time? QY	es O No	
	se of failure 🛶 I	Fire/Evolosion a	ause: O Man made O Nat	ural
11 Construction of the sector	$\Rightarrow \text{ or all unc} \Rightarrow 1$	ion activity dame		
	relating to excavati	ion activity dama	aging hite	
12. LI Rupture of Previously Damage	ea Pipe			
13. LJ Vandalism				Page 2 of 3
TUTTETHNOME / TUU.2 (UP2002)				
		1		

			<u></u>			
F5 – MATERIAL AND WE	LDS					
Material						
14. D Body of Pipe	⇒	O Dent	O Gouge	O Wrinkle Bend	O Arc Burn	O Other:
15. 🗖 Component	\Rightarrow	O Valve	O Fitting	O Vessel	O Extruded Outlet	O Other:
16. 🗖 Joint	\Rightarrow	O Gasket	O O-Ring	O Threads		O Other:
Weld						
	\rightarrow	O Pine	O Fabrication			O Other:
					O Renair Sleeve	O Other
	\Rightarrow					
19. 🖵 Pipe Seam	⇒	O LF ERW	O DSAW	O Seamless	O Flash Weld	
		O HF ERW	O SAW	O Spiral		O Other:
Complete a-a if vou	indic	ate anv cause	e in part F5.			
a. Type of failure		,	,			
	ction E	Defect ⇒O Poor	Workmanship	O Procedure not	followed O Poor Co	onstruction Procedures
	Defer	•+				
b Was failure du	e to pi	pe damage susta	ined in transportatio	on to the construction	or fabrication site?	O Yes O No
c. Was part which	n leake	ed pressure tested	d before incident oc	curred? O Yes, c	omplete d-g O No	
d. Date of test:	1	<u>/ /</u> mo. /	<u>/ /</u> day <u>/ /</u>	/ yr.		
e. Test medium:	0	Water O Nati	ural Gas O Inert	Gas O Other:		
f. Time held at te	st pres	sure: / /	/ hr.			
g Estimated test	press	ure at point of inci	ident:		PSIG	
	PERA	TIONS				
20 Malfunction of Co	ntrol/E		\rightarrow 0 Value	O Instrumentation	Pressure Regulator	O Other
					A Mashaniaal Counting	
21. L Threads Stripped	, Broke	en Pipe Coupling	\Rightarrow O Nipples (U Valve Inreads	 Mechanical Coupling 	
22. Ruptured or Leak	ing Se	al/Pump Packing				
23. C Incorrect Operation	aqean. Du	ata Procedures	O Inadequate Safe	ety Practices O Fa	ailure to Follow Procedu	res O Other:
a. Type: O inadequate Procedures O inadequate Safety Practices O Pailure to Pollow Procedures O Other.						
b, Number of em	hioyee					Hours on duty: / / /
c. vvere most ser			eu quaimeu ?			
F7 - OTHER						
24. L Miscellaneous, de	escribe	9				······································
25. Unknown						
O Investigation	i Comj	plete O Still C	Under Investigation	(submit a supplemen	tal report when investig	ation is complete)
	ESCE	PIRTION OF FAC	TORS CONTRIBUT	TING TO THE EVEN	T (Attach additional	sheets as necessary)
PART G - NARRATIVE L	ESCH	IFTION OF FAC	TORS CONTRIBUT		(Autom additiona)	
[
{						
1						
1						
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	2.20					
				1		

INSTRUCTIONS FOR FORM PHMSA F 7100.2 (01-2002) INCIDENT REPORT - GAS TRANSMISSION AND GATHERING SYSTEMS

GENERAL INSTRUCTIONS

Each gas transmission or gathering system operator shall file Form PHMSA F 7100.2 for an incident that meets the criteria in §191.3 as soon as practicable but not more than 30 days after the incident. Operator, distribution line, gathering line, and transmission line are defined in §191.3 Code of Federal Regulations (CFR). Liquid natural gas (LNG) facility operators are exempt from filing reports in §191.15(c). Releasing gas during maintenance or other routine activities need not be reported if the only reportable criteria met is losing gas of \$50,000 or more as defined in §191.3 (1)(ii).

Damage from secondary ignition need not be reported unless the damage to facilities subject to Part 192 exceeds \$50,000. Secondary ignition is a gas fire where the cause is unrelated to the gas facilities, such as electrical fires, arson, etc. Please submit reports according to §191.7. If you have questions about this report or these instructions or need copies of Form PHMSA F 7100.2, please write to Roger Little, Information Resources Manager, or call (202)366-4569. All forms and instructions are on the OPS home page, <u>http://ops.dot.gov</u>.

SPECIAL INSTRUCTIONS

An entry should be made in each block. If the data is unavailable, please enter Unknown. Please avoid Unknown entries if possible. Estimated data is preferable to unknown data. If Unknown or estimated data entries are made, a supplemental report should follow if the operator learns the answers to the questions. If the block is not applicable, please enter N/A.

In blocks requiring numbers, all blocks should be filled in using zeroes when appropriate. When decimal points are required, the decimal point should be placed in a separate block.

Examples: (Part 5) Nominal Pipe Size <u>/0/0/2/4/</u> inches <u>/1/./5/0/</u> inches

Wall Thickness $\frac{/./5/0/0/}{/1/./2/5/}$ inches

If OTHER is checked, include an explanation or description on the line next to the item checked.

SPECIFIC INSTRUCTIONS

PART A - GENERAL REPORT INFORMATION

Initial, Supplemental, Final Report Section

Check boxes are provided as follows for: □ Original Report □ Supplemental Report □ Final Report.

Check the box for Original Report if this is the initial report filed for this incident. If all of the information requested is known and provided at the time the initial report is filed, including final property damages and failure cause information, check the box for Final Report as well as the box for Original Report, indicating that no further information will be forthcoming.

If all of the information requested on the form is not known or provided at the initial report filing, check only Original Report. If this is an update to an Original Report but all information requested is still not known, check Supplemental Report.

Check Final Report if all requested relevant information has been provided, and there will be no further updates to reported property damages or causal information.

If you are filing a supplemental or final report, please check the Supplemental Report or Final Report box. Please complete parts A(1), A(2) and A(3). You must also complete Part B. When filling in the supplemental, only enter the data that has changed. Please do not enter previously submitted information that hasn't changed, other than the parts specified in this instruction that are needed to provide us with a way to identify your previous filed report.

Pipeline Hazardous Materials ITEM 1. The and Safety Administration (PHMSA) assigns the operator's five-digit If you do not know the identification identification number. number, please leave the operator identification number blank. The operator address entry in 1.c. is the office filing the incident report. If the operator does not own the pipeline, enter the Owner's five-digit identification number in 1.d. Contact us at (202) 366-8075 if you need assistance with an identification number for 1.d.

ITEM 2. The time of the incident should be shown by 24-hour clock notation.

Examples:				
1.(0000)=	midnight	=	/0/0/	0/0/
2.(0800)=	8:00 a.m.	=	/0/8/	0/0/
3.(1200)=	Noon	Ξ	/1/2/	0/0/
4.(1715)=	5:15 p.m.	=	/1/7/	1/5/
5.(2200)=	10:00 p.m.	=	/2/2/	0/0/

2

ITEM 3. Incident location information should be as complete as possible, including the nearest City, Town, Township, County or Parish, Borough, Section, and Range. Offshore incident identification should be located by State or Outer Continental Shelf (OCS) identification and block identification. In addition to the general location information, provide latitude and longitude, if available, including projection and datum used in collecting the data.

If latitude and longitude of the incident are unknown, PHMSA provides a tool located at: ">http://tiger.census.gov/cgi-bin/mapbrowse-tbl>">http://tiger.census.gov/cgi-bin/mapbrowse-tbl>, for determining them. The filer can use the online tool to identify the geographic location of the incident. The tool displays the latitude and longitude below the map. These coordinates are in a decimal degree format (e.g. Lat: 38.89664 Long: -77.04327 are for the Washington Monument) but do not have to be converted to degree/minute/second. If a filer has questions about the use of this tool please contact Sam Hall at 202-493-0591. If a filer does not have Internet access, please contact Steve Fischer at 202-366-4595. PHMSA will provide the filer with a base map that can be used in identifying the incident location.

The class location should be the class location at the incident site as defined in §192.5. Federal Land other than Outer Continental Shelf means all lands the United States owns, including military reservations, except lands in National Parks and lands held in trust for Native Americans. Incidents at Federal buildings, such as Federal Court Houses, Custom Houses, and other Federal office buildings and warehouses, are not to be reported as being on Federal Lands.

ITEM 4. Leak - an event that involves the unintentional release of gas from a pipeline that requires immediate or scheduled repair. The source of the leak may be holes, cracks (which include propagating and non-propagating, longitudinal and circumferential), separation or pullout, and loose connections. Leaks that are either inconsequential or incidental to the operation of a pipeline and which can be checked or repaired under routine daily maintenance are not reportable leaks. Examples of such nonreportable leaks include escape of gas through valve stem packing, through compressor rod packing, loosened connections and relief valves.

Rupture - a complete failure of a portion of the pipeline.

Propagation - the extension of the original opening in the pipeline in an area of nominal wall thickness resulting from the internal forces on the pipeline.

Tear - an extension of the original opening in the pipeline resulting from an externally applied force, such as a bulldozer, backhoe, or grader.

ITEM 5. When a person dies within 30 days of the initial accident date, report as a fatality. When a person dies subsequent to an injury more than 30 days past the accident date, report as an injury. This aligns with the Department of Transportation's general guidelines for all modes for reporting deaths and injuries.

In-patient hospitalization means hospital admission and at least one overnight stay.

Property damage or loss includes costs due to property damage to the operator's facilities and to facility repair and replacement; leak locating; right-of-way cleanup; and environmental cleanup replacement, or change that is not related to the incident but the operator does for convenience is not to be included. An example of doing work for the operator's convenience is to work on facilities unearthed because of the incident. Litigation and other legal expenses related to the incident are not reportable.

High consequence area means:

1. A commercially navigable waterway, which means a waterway where a substantial likelihood of commercial navigation exists; 2. A high population area, which means an urbanized area as defined and delineated by the Census Bureau that contains 50,000 or more people and has a population density of at least 1,000 people per square mile;

3. An other populated area, which means a place as defined and delineated by the Census Bureau that contains a concentrated population, such as an incorporated or unincorporated city, town, village, or other designated residential or commercial area; 4. An unusually sensitive area, as defined in 195.6

If gas ignited, but there was no explosion, check box 5e. If an explosion occurred, check box 5f.

Enter estimated number of people in the general public evacuated, if any, in item 5g, and check off the reason for evacuation.

For item 6, "Elapsed time until the area was made safe" means the time from the incident occurrence until the incident is brought under control and does not significantly threaten public safety. This does not necessarily mean that the flow of gas has been stopped. If the time of occurrence is unknown, the time when the operator was first notified or made aware of the incident should be used to calculate elapsed time.

PART B - PREPARER AND AUTHORIZED SIGNATURE

Preparer is the name of the person most knowledgeable about the information in the report or the person to be contacted for more information.

Authorized Signature may be the preparer, an officer, or other person whom the operator has designated to review and sign reports. Please enter the preparer's e-mail address if the preparer has one.

PART C - ORIGIN OF INCIDENT

ITEM 1. If the incident occurred on a gathering line operated by a distribution company, please check gathering system.

ITEM 2. Check the appropriate item in this section. If the failure occurred on an item not provided in this section, check the "OTHER" box and specify in the space provided the item that the failure occurred on. A sample list of possible "OTHER's" is included in the appendix under <u>Part C, Item 2, Other</u>.

ITEM 3. If steel or plastic was involved, check the box provided for steel or for plastic. If material other than steel or plastic was involved, check the box for Other and specify the material involved. If plastic was involved, check applicable items 3a through 3c that pertain to plastic. Check item 3c (joint failure) if plastic pipe segments joined by heat-fusion (butt or socket), electrofusion or mechanically coupled connections were involved. A sample list of possible "Other"s is included in the appendix under <u>Part C, Item 3, Other</u>.

ITEM 4. Check the appropriate item in this section.

ITEM 5. "Year the pipe or component which failed was installed" means the year installed at the incident location.

PART D - MATERIAL SPECIFICATION

Complete sections D (1 through 6), if applicable, where incident failure involved a pipe or valve.

ITEM 1. Nominal pipe size is the diameter in inches used to describe the pipe size; for example, 2-inch, 4-inch, 8-inch, 12-inch, 30-inch.

ITEM 2. Enter pipe wall thickness in inches.

ITEM 3. Specification is the specification to which the pipe or component was manufactured, such as API 5L or ASTM A106. When more than one item has failed, and the origin of the failure is not clear, complete Part C ITEM 4 to explain the additional item(s).

ITEM 4. See the appendix section of these instructions under <u>Part D, Item 4, Seams</u> for a list of common seam types.

ITEM 5. Enter valve type (flange-welded, bell-plug, etc.) See the appendix section of these instructions under <u>Part D</u>, Item 5, <u>Valves</u> for a list of common valve types. ITEM 6. Provide the pipe or valve manufacturer if failure was on pipe or valve. Enter year pipe or valve was manufactured. See the appendix section of these instructions under <u>Part D</u>, Item 6, <u>Manufacturer</u> for a list of common pipe manufacturers.

PART E - ENVIRONMENT

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

Provide depth of cover in inches where incident involved buried pipe or component.

PART F - APPARENT CAUSE

There are 25 numbered causes in Part F. Check the box to the left of the cause of the incident and complete all of the subelement items to the right of or below the cause you indicate.

The 25 causes are broken into 5 categories in sections F1 through F5. General descriptions of the 5 categories followed by more detailed instructions for each section and for specific causes are provided below.

General description of sections F1 through F5:

Section F1: Corrosion. If the cause was Corrosion (internal or external), indicate whether the corrosion was internal or external and check appropriate sub-elements from F1 a through e.

Section F2: Natural Forces. This includes all outside forces attributable to causes not involving humans.

Section F3: Excavation. This section covers excavation causes.

Section F4: Other Outside Force Damage. This section covers outside force causes not readily attributable to Sections F2 and F3., including previously damaged pipe and vandalism.

Section F5: Material and Welds. This section covers Material and Weld failure causes. Complete sub-elements a-g in section F5 if any cause in section F5 is indicated. "Fitting" means a device, usually metal, for joining lengths of pipe into various piping systems; includes couplings, ells, tees, crosses, reducers, unions, caps and plugs.

Section F6: Equipment and Operations. This section covers failures of malfunctions of relief/control devices and equipment, failed or broken couplings, including thread failures, failures in seal/pump packing, and failures caused by incorrect operations by operator personnel. Note: Report gasket or o-ring failures under Section F5, item 16, Joints, by checking the appropriate circle for gasket or o-ring. Section F7:Other. This section is provided for failure causes that do not fit in any other area provided in Sections F1 through F6. If the failure cause is unknown at time of filing this report, check item 24 and indicate whether the investigation is complete or still under investigation. If the failure cause is known but doesn't fit in any category in sections F1 through F6, check item 25 and describe the cause. Continue in Part G, narrative description, if more space is needed.

Specific instructions for sections F1 through F7

PART F1 - CORROSION

Corrosion includes a leak or failure that galvanic, bacterial, chemical, stray current, or other corrosive action causes. Examples: A corrosion leak is not limited to a hole in the pipe. If the bonnet or packing gland on a valve or flange on piping becomes loose and leaks due to corrosion and failure of bolts, it is classified as Corrosion. If the bonnet, packing, or other gasket has deteriorated before the end of its expected life and caused a leak or failure and a new gasket is required, it is classified as a Material Defect. An incident at a facility that corrosion weakens and that fails with outside force as a contributing factor is classified as Corrosion. Except for deterioration due to corrosion, leaks resulting from materials deteriorating after the expected life are classified as Other.

If either item F1-1 (external corrosion) or F1-2 (internal corrosion) are checked, complete subparts a - e to the right of the items, pointed to by the arrow.

<u>Subpart a - Pipe Coating</u> Galvanized pipe with no dielectric coating is considered bare.

Subpart b - Visual Examination

If the Visual Examination method is not listed here, indicate "Other" and give a description of method used. A list of example "Other" descriptions is included in the appendix under <u>Part F1</u>, <u>Subpart b, Visual Examination</u>.

Subpart c - Cause of Corrosion

If the Cause of Corrosion is not listed here, indicate "Other" and give a description. A list example "Other" causes is included in the appendix under <u>Part F1, Subpart c, Cause of Corrosion</u>.

Subpart d - Cathodic Protection

"Under cathodic protection" means cathodic protection in accordance with Part 192, Appendix D. Recognizing that older pipelines may have had cathodic protection added over a number of years, provide an estimate if exact year cathodic protection started is unknown.

PART F2 - NATURAL FORCES

The Natural Forces category includes all outside forces attributable to causes not involving humans.

Item 3: 'Earth Movement' refers to failures caused by land shifts such as earthquakes, landslides, or subsidence.

Item 5: 'Heavy rains and floods' refer to all water related failure causes such as washouts, flotation, mudslides, or water scouring. While mudslides involve earth movement, report them here since typically they are an effect of heavy rains or floods.

Item 6: 'Temperature' refers to those causes that are related to temperature effects, or where temperature was the initial cause; for example, thermal stress, frost heave, or frozen component failures.

PART F3 - EXCAVATION

The Excavation category includes leaks or failures caused by earth-moving or other equipment, tools or vehicles, or other excavation activities.

Item 8: Damages resulted from an Operator (including their contractors): check this item if the failure was caused by the operator or the operator's contractor or agent or other party working for the operator as a result of excavation.

Item 9: Third Party Damage- check this item if failure cause was from excavation damages resulting from action by outside party/third party caused by personnel or other party other than the operator or his agent.

Subpart 9.c- 'Prior notification' means that the operator had been notified that excavation or construction work was to be done near the pipeline before the incident occurred. If the operator was notified, but the operator believes the notice was inadequate, improper, or incomplete, check NO and explain in Part G, Narrative Description Of Factors Contributing to the Event.

Subpart 9.d- 'Was pipeline marked?': Indicate whether the pipeline was marked or not. If the pipeline was marked, complete all items i through iv that apply.

A contractor working for the operator gouges the Examples: operator's pipeline and buries it without repair. If the pipeline leaks at a later date, the leak should be classified as damage resulted from item F3.8- Operator Excavation Damage (including their contractors)/Not Third Party if the operator can determine the leak resulted from the contractor's actions. Ιf the contractor had been working for someone other than the operator, the leak should be classified as F3.9- Third Party A contractor working for the operator Excavation Damage. excavates near the operator's pipeline, which is later damaged by earth movement in the zone the excavation affects. The damage should be classified as F3.8- Operator Excavation Damage (including their contractors)/Not Third Party. If the contractor had been working for other than the operator in this situation, F3.9- Third Party Excavation Damage. In both situations, the damage should not be attributed to damage by moving earth. Pipeline leaks resulting from vehicular traffic loading should be classified as "Car, truck or other vehicle not relating to excavation activity damaging pipe". Pipeline leaks resulting from pullout of a mechanical fitting due to the repeated action of freezing should be classified as "Temperature, Frost heave". A pipeline or coating that an outside party or third party damages that later leaks due to corrosion or outside force should be reported under F3.9- Third Party Excavation Damage. А pipeline or coating that the operator or a contractor working for the operator damages that causes later leaks due to corrosion or

outside force should be reported under F3.8- Operator Excavation Damage (including their contractors)/Not Third Party.

ITEMS 10 - 13, Other Outside Force Damage Causes.

This section covers outside force causes that do not fit the other two categories (Natural forces, Excavation). Fire/explosion as primary cause of failure implies that fire/explosion occurred prior to failure and not as a result of failure. If a fire/explosion occurred as a result of the failure and not prior to the failure as cause of failure, do not check item 10, but check item A.5.e. I∉ the primary cause of damage was caused by a vehicle other than a vehicle involved in excavation, check item 11. If a vehicle involved in excavation caused the damage, check the appropriate item under the Excavation Damage section (items 8 and 9). If the primary cause of failure was a rupture of previously damaged pipe, check item An act of vandalism may be described here by checking item 12. 13.

PART F5 - MATERIAL AND WELDS

Report both material defects and construction defects or failures in this section. If a material or construction defect was on the body of the pipe, component or joint, check appropriate boxes under items 14-16. If a weld failure was involved, check appropriate boxes under items 17 if any cause was checked in Part F5. Identify if the failure was from a material failure or construction defect by checking the appropriate item in subpart F5.a.

ITEMS 14 - 16, Material.

This section includes leaks or failures from a defect within the material of the pipe, component or joint due to faulty manufacturing procedures. Leaks or failures from material deterioration in service that do not result from an original defect or corrosion are reported under Other.

ITEMS 17 - 19, Welds.

Acronyms used in this section: LF ERW : low frequency electro-resistance weld HF ERW : high frequency electro-resistance weld DSAW : double-submerged arc weld SAW : submerged arc weld

Weld-related material defects includes leaks or failures from a defect within the material of the pipe, component or longitudinal weld or seam due to faulty welding or weld-related manufacturing procedures. Leaks or failures from material deterioration in service that do not result from an original defect or corrosion are reported under Other.

Sub-Elements a - h

Construction defect includes leaks in or failures of original sound material due to force being applied during field construction, that caused a dent, gouge, excessive stress, or some other defect that eventually resulted in failure. Included are leaks in or failures of faulty wrinkle bends, faulty field welds, and damage sustained in transportation to the construction or fabrication site.

PART F6 - EQUIPMENT AND OPERATIONS

This section includes malfunctions of control and relief equipment (typically the result of failed and leaking valves), failures of threaded components and broken pipe couplings, and seal failures such as compressor pump packing failures. Incidents resulting from incorrect operations or inadequate procedures are also included in this category.

Item 20- Malfunction of Control/Relief Equipment

Examples of this type of failure cause include overpressurizations resulting from malfunction of control or alarm device, relief valve malfunction, and valves failing to open or close on command or which opened or closed when not commanded to do so. Note: if an overpressurization occurred, please check item Part A.8.d.

Item 21 - Threads stripped, broken pipe coupling

Examples of this type of failure include failures on compressors, meters, or regulator stations where the failure resulted from a crack in a component or threads of a component such as nipples, flanges, valve connections, line pipe collars, etc. Item 22 - Ruptured or Leaking Seal/Pump Packing

Examples of this type of failure generally include failures where compressor pump packing or other pump seals fail.

Item 23 - Incorrect Operation

Incorrect operation failures are typically those where better procedures may have prevented an incident from occurring. These types of failures most often occur during maintenance activities. Some examples of this type of failure are unintentional gas ignition during a welding or maintenance activity or other reportable incidents where a fire occurred not intentionally started by the operator, where an employee removes the wrong bolts from an assembly, leaves a valve open or closed at the wrong time, or failures where human error, employee fatigue, and/or lack of experience may have played a role.

PART F7 - OTHER

This section is provided for failure causes that do not fit in any category in Sections F1 through F6. If the failure cause is unknown at time of filing this report, check item 25. If the failure cause is known but doesn't fit in any category in sections F1 through F6, check item 24 and describe the cause. Continue in Part G, narrative description, if more space is needed.

PART G - NARRATIVE DESCRIPTION OF FACTORS CONTRIBUTING TO THE INCIDENT

The narrative is needed only when it is useful to clarify or explain unusual conditions. It should be a concise description of the incident, including the probable cause, and the facts, circumstances, and conditions that may have contributed directly or indirectly to causing the incident. Explanations of estimated data may be included in the narrative. If the OTHER block was checked in Part F7 item 24 or 25, the narrative should describe the incident in detail, including the known or suspected cause.

APPEND**İ**X

Part C, Item 2, Other NIPPLE FITTING FLANGE FITTING COMPRESSOR/TURBINE GASKET DRIP/RISER GIRTH WELD LONGITUDINAL WELD FILLET WELD Part C, Item 3, Other _____. _____ GASKET O-RING PACKING ALUMINUM CAST IRON WROUGHT IRON ASBESTO\$ FIBER GLASS GALVANIZED RUBBER REINFORCED RUBBER UNKNOWN Part D, Item 4, Seams ELECTRIC RESISTANCE WELD SUBMERGED ARC WELD DOUBLE SUBMERGED ARC WELD BUTT WELD FURNACE LAP WELD SEAMLESS WELD FLASH WELD Part D, Item 5, Valves -----_____ BALL CHECK BLEEDING PRESSURE REDUCING RECIPROCATING GATE PLUG UNKNOWN Part D, Item 6, Pipe Manufacturers ACME NEWPORT AMER. MANNEK CO ANDERSON GREENWOOD AO SMITH ARMCO STEEL BETHLEHEM STEEL CONSOLIDATED WESTERN

GROVE INGERSOL_RAND JONES & LAUGHLIN KAISER STEEL CO. LONE STAR STEEL NATIONAL TUBE REPUBLIC STEEL ROCKWELL U S STEEL YOUNGSTOWN YOUNGSTOWN SHEET&TUBE Unknown Part Fl, Subpart b, Visual Examination _____ FINE CRACKS PIN HOLE LEAK GENERAL INTERNAL PITTING Part F1, Subpart c, Cause of Corrosion

> ATMOSPHERIC CORROSION CHEMICAL CORROSION EROSION/CORROSION SOUR GAS WATER/LIQUID CO2 & WATER INTERGRANULAR CORROSION