Distribution Integrity Management Program (DIMP) Inspection Form

For Operators of Gas Distribution Systems For Requirements of 192.1005 – 192.1011

Version 9/23/2011

This inspection form is for the evaluation of a gas distribution integrity management program for all operators of gas distribution except operators of master meter or small liquefied petroleum gas (LPG) systems. The form contains questions related to specific regulatory requirements and questions which are strictly for informational purposes. The questions which are related to specific regulatory requirements are preceded by the rule section number which prescribes the applicable code citation for the question. The cell preceding informational questions states "information only".

S/Y stands for "Satisfactory" or "Yes", U/N stands for "Unsatisfactory" or "No", N/A stands for "Not Applicable", and N/C stands for "Not Checked". If an item is marked U/N, N/A, or N/C, an explanation must be included in the comments section.

Some inspection questions contain examples to further clarify the intent of the question. For example, question 5 asks, "Do the written procedures require the consideration of information gained from past design, operations, and maintenance (e.g. O&M activities, field surveys, One-Call system information, excavation damage, etc.)?" The list following "e.g." is not meant to be all inclusive or that all the items are required. Some of the items may not be applicable to an individual operator's system.

Some States require the operator to notify and send the State regulatory authority any changes to operator's plans and procedures. Operators in these states should also notify and send revisions of the DIMP plan to the State regulatory authority.

Operator Contact and System Information — Operator Information:

Name of Operator (legal entity):	City of Enumclaw
PHMSA Operator ID(s)	4500
Included in this Inspection:	
Type of Operator:	Investor Owned Municipal Private
	LPG Other (e.g. cooperative)
States(s) included in this inspection:	Washington
Headquarters Address:	2041 Railroad Ave
Company Contact:	Ed Hawthorne
Phone Number:	253-615-5787
Email:	ehamthorne@ci.enumclaw.wa.us
Date(s) of Inspection:	February 19 – 20, 2013
Date of Report:	March 20, 2013

Persons Interviewed:

Persons Interviewed (List the DIMP Administrator as the first contact)	Title	Phone Number	Email
Ed Hawthorne	Gas manager	253-615-6787	ehawthorne@ci.enumclaw.wa.us

State or Federal Representatives:

Inspector Name & Agency	Phone Number	Email
Scott Rukke, Washington State UTC	360-664-1200	srukke@utc.wa.gov
Inspector Comments (optional):	i	

Question No.	Rule §192	D	escription		S/Y	U/N	N/A	N/C	
1	.1005	Was the plan written and implemented per the requirement of 192.1005 by 08/02/2011? OR For a gas system put into service or acquired after 08/02/2011, was a plan written and implemented prior to beginning of operation?							
Inspector's	Comments	Chapter 10 will keep records of p	revious DIMP plans.						
2	2 Information Only Were commercially available product(s)/templates used in the development of the operator's written integrity management plan?								
		Fully 🔀	Partially	٢	all 🗌				
			Commercial product(s)/templates name if used: SHRIMP						
Inspector's	Comments	Should add that SHRIMP was use	d for plan development ao	lded					
3	Information Only	Does the operator's plan assig positions, of those accountabl required actions?							
Inspector's	Comments	Section 11.1							
4	.1007(a)(1)	Do the written procedures ide sources used to determine th to assess the threats and risks	ne following characteristic	s necessary					
		 Design (e.g. type of constr pipe method, materials, si services, etc.)? 							
		Operating Conditions (e.g.	pressure, gas quality, etc	c.)?	\bowtie				
 Operating Environmental Factors (e.g. corrosive soil conditions, frost heave, land subsidence, landslides, washouts, snow damage, external heat sources, business districts, wall-to-wall paving, population density, difficult to evacuate facilities, valve placement, etc.)? 									

		192.1007(a) Knowledge of the System				
Question No.	Rule §192	Description	s/y	U/ N	N/ A	N/C
5	.1007(a)(2)	Do the written procedures require the consideration of information gained from past design, operations, and maintenance (e.g. O&M activities, field surveys, One-Call system information, excavation damage, etc.)?				
Inspector's	Comments		1	1		
6	Information Only	Do the written procedures indicate if the information was obtained from paper records, or subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) and the subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert knowledge (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records) are subject matter expert (select all which appear records		ctroni	c reco	rds,
		Electronic 🛛 Paper 🖂	SN	/IE 🔀		
Inspector's	Comments					
7	.1007(a)(3)	Does the plan contain written procedures to identify additional information that is needed to fill gaps due to missing, inaccurate, or incomplete records?				
Inspector's	Comments	Take credit for WAC rules				
8	.1007(a)(3)	Does the plan list the additional information needed to fill gaps due to missing, inaccurate, or incomplete records?				
Inspector's	s Comments					
9	.1007(a)(3)	Do the written procedures specify the means to collect the additional information needed to fill gaps due to missing, inaccurate, or incomplete records (e.g., O&M activities, field surveys, One-Call System, etc.)?				
Inspector's	Comments		I	l		
10	.1007(a)(5)	Do the written procedures require the capture and retention of data on any new pipeline installed?	\bowtie			
Inspector's	Comments	11.1 section A				
11	.1007(a)(5)	Does the data required for capture and retention include, at a minimum, the location where the new pipeline is installed and the material from which it is constructed?				
Inspector's	Comments	Same section				
12	.1007(a)	Does the documentation provided by the operator demonstrate implementation of the element "Knowledge of the System"?	\boxtimes			
Inspector's	S Comments	Section Chapter 3 add SME input				
13	.1007(a)	Has the operator demonstrated an understanding of its system?				

Inspector's Comments						
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		192.1007(b) Identify Threats				
Question No.	Rule §192	Description	s/y	U/ N	N/A	N/C
14	.1007(b)	In identifying threats, do the written procedures include consideration of the following categories of threats to each gas distribution pipeline? • Corrosion • Natural Forces • Excavation Damage • Other Outside Force Damage • Material or Welds • Equipment Failure • Incorrect Operation • Other Concerns	XXXXXXXX			
Inspector's	Comments					
15	.1007(b)	Did the operator consider the information that was reasonably available to identify existing and potential threats?	\boxtimes			
Inspector's	Comments					
16	Information Only	Does the plan subdivide the primary threats into subcategories to identify existing and potential threats?	\square			
Inspector's	Comments					
17	.1007(b)	In identifying threats did the information considered include any of the following? Incident and leak history yes no Corrosion control records yes no Continuing surveillance records yes no Patrolling records yes no Maintenance history yes no Excavation damage experience yes no Other – Describe yes no				
Inspector's	Comments					
18	Information Only	Does the plan categorize primary threats as either "system-wide" or "lo	ocalize			-1
		All System-wide All Localized Some of Both			lentifie	u
Inspector's	Comments					
19	Information Only	Do the written procedures consider, in addition to the operator's own information, data from external sources (e.g. trade associations, government agencies, or other system operators, etc.) to assist in identifying potential threats?				
Inspector's	Comments	Should add in the Dupont pipe issue and reports from outside agencies.				
20	.1007(b)	Does the documentation provided by the operator demonstrate implementation of the element "Identify Threats"?	\square			

Inspector's Comments										
		192.1007(c) Evaluate and	Rai	nk R	isk					
Question No.	Rule §192	Description					s/y	U/ N	N/A	N/C
21	Information	Was the risk evaluation developed fully or in p	art u	sing a	comm	nercially	availa	ble to	ol?	
	Only	Fully Partially		Not at	all [
		Commercial tool name if used: SHRIMP								
	Comments					•				
22	.1007 (c)	Do the written procedures contain the method the relative importance of each threat and est risks posed?					\boxtimes			
Inspector's	Comments	Briefly describe the method.								
inspector s	comments				e.	e	S	b	Ľ	
		For questions 23 – 25, do the written procedures to evaluate and rank risk	Corrosion	Natural Forces	Excavation Damage	Other outside Force Damage	Material or Welds	Equipment Failure	Incorrect Operation	Other Concerns
		consider:				đ	2	E(
23		Each applicable current and potential threat?	S	S	S	S	S	S	S	S
24	.1007 (c)	The likelihood of failure associated with each threat?	S	S	S	S	S	S	S	S
25		The potential consequence of such a failure?	S	S	S	S	S	S	S	S
		Mark each box above with one of the following N/A for "Not Applicable" and N/C for "Not Che	-		tisfact	ory", U	for "U	nsatis	factory	" ,
Inspector's	Comments									
26	.1007 (c)	If subdivision of system occurs, does the plans into regions with similar characteristics and fo are likely to be effective in reducing risk?	r whi	ch sim					\boxtimes	
Inspector's	Comments	Briefly describe the approach. System is not so System is small and not subdivided.	ubulv	lueu						
27	Information	Is the method used to evaluate and rank risks	reasc	nable	?		\boxtimes			
Inspector's	Only Comments									
28	.1007(c)	Are the results of the risk ranking supported b model/method?	y the	risk ev	valuat	ion				
Inspector's	Comments									
29	.1007(c)	Did the operator validate the results generated model/method?	·		k eval	uation	\boxtimes			
Inspector's	Comments	Briefly describe. SME's reviewed the risk ranki The risk ranking results were reviewed by SME's.	ng re	SUITS			1			L
30	.1007(c)	Does the documentation provided by the oper implementation of the element "Evaluate and				e				

Inspector's Comments

	192.10	07 (d) Identify and implement measures to add	ress	risks	;					
Question No.	Rule §192	Description	s/y	U/ N	N/A	N/C				
31	.1007 (d)	Does the plan include procedures to identify when measures, beyond minimum code requirements specified outside of Part 192 Subpart P, are required to reduce risk?								
Inspector's	Comments		L	L	L					
32	.1007 (d)	When measures, beyond minimum code requirements specified outside of Part 192 Subpart P, are required to reduce risk, does the plan identify the measures selected, how they will be implemented, and the risks they are addressing?								
Inspector's	Inspector's Comments									
33 .1007 (d) Complete the table at the end of this form: <i>Threat Addressed, Measure to Reduce Risk, and Performance Measure</i>										
Inspector's	Comments									
34	.1007 (d)	Does the plan include an effective leak management program (unless all leaks are repaired when found)								
		 Locate the leaks in the distribution system; Evaluate the actual or potential hazards associated with these leaks; Act appropriately to mitigate these hazards; Keep records; and Self-assess to determine if additional actions are necessary to keep people and property safe. 								
Inspector's	Comments									
35	.1007(d)	Does the documentation provided by the operator demonstrate implementation of the measures, required by Part 192 Subpart P, to reduce risk?								
Inspector's	Comments	Reviewed atmospheric corrosion surveys to ensure that CP reads are being	taken.	1						

19	2.10	007(e) Me	easure per	formance	e, monit	or results	s, and ev	valua	te e	ffec	tiver	ness																																
Ques		Rule §192			Descriptio	'n			s/y	U/ N	N/A	N/C																																
	.100	7(e)		i) Number of hazardous leaks either eliminated or repaired, categorized by cause?	ii) Number of excavation damages?	iii) Number of excavation tickets received by gas department ?	iv) Total number of leaks either eliminate d or repaired categorize d by cause?	Numbe hazard leaks e elimina or repa catego	v) Number of hazardous leaks either eliminated or repaired, categorized by material?		Number of hazardous leaks either eliminated or repaired,		vi) additiona sures the ator deto eeded to late the tiveness rogram i rolling ea ified thr	e ermines o of the n ach																														
36	proc oper for e	the plan con edures for ho ator establish ach performa sure?	w the ned a baseline	S	S	S	S	S	S S																																			
37	base	s the plan esta line for each sure?		S	S	S	S	S		S		S		S		S		S		S		S		S		S		S		S		S		S		S		S		S			S	
38	proc for e	the operator edures to coll ach performa sure?		S	S	S	S	S		S																																		
39	requ mon	ne written pro ire the operat itor each perf sure?	tor to	S	S	S	S	5	5		S																																	
			h box above wi N/A f			for "Satisfac N/C for "Not		"Unsat	tisfact	ory",																																		
Inspe 4		Comments .1007 (e)	When measur procedures pr	•		-																																						
Inspe	ector's	Comments								1																																		
4	1	Information Only	Can the perfo plan be count				erator in th	e																																				
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43	2	.1007(e)	Does the docu implementation Results, and E	on of the elei	ment "Meas	•																																						
Inspe	ector's	Comments	Need to quanti	fy their baselir	ne numbers						·																																	

Question No.	Rule §192	Description	S/Y	U/ N	N/A	N/C
43	.1007 (f)	 Do the written procedures for periodic review include: a. Frequency of review based on the complexity of the system and changes in factors affecting the risk of failure, not to exceed 5 years? b. Verification of general information (e.g. contact information, form names, action schedules, etc.)? c. Incorporate new system information? d. Re-evaluation of threats and risk? e. Review the frequency of the measures to reduce risk? f. Review the effectiveness of the measures to reduce risk? g. Modify the measures to reduce risk and refine/improve as needed (i.e. add new, modify existing, or eliminate if no longer needed)? h. Review performance measures, their effectiveness, and if they 				
Inspector's	s Comments	are not appropriate, refine/improve them? a. Annually				
44	Information Only	b. Does the plan contain a process for informing the appropriate operating personnel of an update to the plan?	\boxtimes			
Inspector's	s Comments					
45	Information Only	Does the plan contain a process for informing the appropriate regulatory agency of a significant update to the plan?				
Inspector's	s Comments			1		
46	.1007(f)	Does the documentation provided by the operator demonstrate implementation of the element "Periodic Evaluation and Improvement"?	\boxtimes			

		192.1007(g) Report results				
Question No.	Rule §192	Description	S/Y	U/ N	N/A	N/C
47	.1007(g)	Does the plan contain or reference procedures for reporting, on an annual basis, the four measures listed in 192.1007(e)(1)(i) through (e)(1)(iv) to PHMSA as part of the annual report required by § 191.11 and the State regulatory authority?	\boxtimes			
Inspector's	Comments		•	•	•	
48	Information Only	When required by the State, does the plan identify the specific report form, date, and location where it is to be submitted?	\boxtimes			
Inspector's	Comments		•	•	•	•
49	.1007(g)	Has the operator submitted the required reports?	\boxtimes			
Inspector's	Comments	Yes. The 2011 report will need to be revised. Missing two leaks.				

192.1009 What must an operator report when mechanical fittings fail?						
Question No.	Rule §192	Description		U/ N	N/A	N/C
50	.1009	Does the operator have written procedures to collect the information necessary to comply with the reporting requirements of 192.1009?	\boxtimes			
Inspector's Comments						

	192.1011 What records must an operator keep?						
QuestionRuleNo.§192		Description	S/Y	U/ N	N/A	N/C	
51	.1011	Does the operator have written procedures specifying which records demonstrating compliance with Subpart P will be maintained for at least 10 years?	\boxtimes				
Inspector's Comments		Section 10					
52 .1011		Does the operator have written procedures specifying that copies of superseded integrity management plans will be maintained for at least 10 years?					
Inspector's Comments							
53.1011Has the operator maintained the required records?		Has the operator maintained the required records?	\boxtimes				

Inspector's Comments	Reviewed previous DIMP plans. Currently the plan is on revision number two. Plan revision one is dated
	July 2010.

Table 1: Threat Addressed, Measure to Reduce Risk, and Performance Measure

For the top five highest ranked risks from the operator's risk ranking list the following:

- Primary threat category (corrosion, natural forces, excavation damage, other outside force damage, material or weld, equipment failure, incorrect operation, and other concerns);
- Threat subcategory (GPTC threat subcategories are acceptable. Try to be specific. Example, failing bonnet bolts of gate valve, manufacturer name, model #);
- Measure to reduce the risk (list the one measure the operator feels is most important to reducing the risk);
- Associated performance measure.

	Primary Threat Category	Threat Subcategory, as appropriate	Measure to Reduce Risk	Performance Measure
1	Excavation damage	Failure to follow dig laws by contractors	Increased training frequency	Leaks numbers caused by third party damages
2	Corrosion	Corrosion of non-protected service lines	Replacement, increased leak frequency, increased interrupted potential reads on entire system	Baseline leak numbers due to corrosion and numbers of unprotected services found during CP interruption.
3				
4				
5				

Other Inspector	This is a small municipal system with few threats. Third party damage is the number one cause
Comments	of leaks. Although non-cathodically protected steel wrapped service lines were present in the
	system, Enumclaw has replaced all non-protected services as of the date of this inspection.
	Since many of the services that were found with no protection had dresser couplings that can
	isolate the service from it's CP source, Enumclaw has elected to reduce this threat by
	conducting an interrupted cathodic protection survey every 3 years to find any services that
	may have lost their source CP. There are currently no known services without CP.