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):	Avista Utilities
PHMSA Operator ID(s)	31232
Included in this Inspection:	
Type of Operator:	Nunicipal Private
	LPG Other (e.g. cooperative)
States(s) included in this inspection:	Idaho, Oregon and Washington
Headquarters Address:	1411 E Mission, Spokane, WA 99220
Company Contact:	Linda Burger
Phone Number:	(509) 495-4423
Email:	Linda.Burger@avistacorp.com
Date(s) of Inspection:	July 10, 2012 – July 11, 2012.
Date of Report:	July 16, 2012

Persons Interviewed:

Persons Interviewed			
first contact)	Title	Phone Number	Email
Randy Bareither	Pipeline Safety Engineer	(509) 495-8716	Randy.bareither@avistacorp.comJohns
John Schwendener	Director Gas Delivery	(509) 495-2745	John.schwendener@avista.com
David Howell	Manager Gas Compliance	(509) 495-8715	David.Howell@avistacorp.com
Kevin Farrington	Gas Integrity Management Analysis	(509) 495-8762	Kevin.Farrington@avistacorp.com
Robert Cloward	Senior GIS Analyst	(509) 495-8282	Robert.cloward@avistacorp.com
Kris Busko	Asset Management Engineer	(509) 495-8767	8767kristen.busko@avistacorp.com
Erika (Jake) Jacobs	GIS Analyst	(509) 495-8762	Erika.jacobs@avistacorp.com
Linda Burger	DIMP Specialist	(509) 495-4423	Linda.burger@avistacorp.com

State or Federal Representatives:

Inspector Name & Agency	Phone Number	Email
Ellis Hire	(208) 365 0667	<u>ehire@puc.idaho.go</u> v

Kevin Hennessey	503 378 6115	Kevin.Hennessy@state.or.us								
Patti Johnson	(360) 870 4915	pjohnson@utc.wa.gov								
Inspector Comments (optional):										
All three state inspectors audited the company's DIMP Program their state.	Plan and each state looked at the asso	ociated documentation for								

Full time Linda, Kevin Farringten, and support from Jake and Rob and Kris. Available as necessary.

Avista is now tracking bedding and soil conditions. Prior to new field forms they were not.

192.1005 What must a gas distribution operator do to implement this subpart?								
Question No.	Rule §192	Descrip	tion		s/y	U/N	N/A	N / C
1	.1005	Was the plan written and implement 192.1005 by <u>08/02/2011</u> ? <u>OR</u> For a gas system put into service or a plan written and implemented pri	ment of 2/2011, was peration?	\boxtimes				
Inspector's	S Comments	Initial plan date is 7-28-11, Avista start	ed working on DIMP	in 2008				L
2	Information Only	Were commercially available produced development of the operator's write	Were commercially available product(s)/templates used in the development of the operator's written integrity management plan?					
		Fully	Partially 🔀	Not	t at all			
		Commercial product(s)/templates n	ame if used:					
Inspector's	s Comments	Structural Integrity made template Association material	s based on NE Gas A	Association an	d the S	Southe	ern Ga	IS
3	Information Only	Does the operator's plan assign resp positions, of those accountable for o required actions?	oonsibility, including developing and impl	titles and ementing	\boxtimes			
Inspector's	s Comments	Page 12 and 13, Table 3.1-1 List respon	sible positions, role/r	esponsibility fo	r each	plan se	ection.	,
4	.1007(a)(1)	 Do the written procedures identify a sources used to determine the follate assess the threats and risks to the Design (e.g. type of construction pipe method, materials, sizes, d services, etc.)?Page 17 section ! Operating Conditions (e.g. press Section 5.3 Operating Environmental Factor frost heave, land subsidence, la damage, external heat sources, paving, population density, diffing placement, etc.)? Section 5.3 	or reference the app owing characteristic e integrity of the pip n, inserted pipe, reh ates of installation, 5. Appendix A and C sure, gas quality, etc rs (e.g. corrosive soil ndslides, washouts, business districts, w cult to evacuate faci	oropriate s necessary eline: abilitated mains and .)? conditions, snow vall-to-wall lities, valve				

Inspector's Comments	A summary of the existing records that are utilized by Avista's IM Plan and where they are located are documented in Appendix A, Table 5.1.1. This includes, but is not limited to , incident and leak history, corrosion control records, continuing surveillance records, patrolling records, maintenance history, exposed piping reports and excavation damage. Section 5.5 - provisions to capture and retain data of new pipelines installed?
	Location and material at a minimum Appendix A 4 has list of information sources

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.)? Section 5.2 and Appendix A and C				
		Ensure that processes adequately address the record review. YES				
		Ensure they have considered all reasonably available records, review the list. USED 5 YEARS OF RECORDS				
Inspector's	Comments	Avista scrubbed through 5 years of leak data re-looking at how each leak fai based on how Avista would categorize leak failures currently. The results o Table 5.2-11, Table 5.2-13in Appendix A, Table 6.1-1 in Appendix B and Tabl	ilure wa f this da e 9.1-1	as cate ata wa throu	gorize s using gh 9.6-	d ; in 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 select all which appear records and the 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 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 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	om ele oply)?	ctroni	c reco	rds,
		Electronic 🖂 Paper 🖂	SN	1E 🔀		
Inspector's	Comments	Page 18 Section 5.4.1 and Appendix A, page A31 ids all sub categories for le all data bases	eak failu	ire an	d A32,	lists
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?				
		Need process to identify facilities for which records are missing, inaccurate or incomplete. YES	\square			
		Is QA/QC program in place to ensure records are accurte and complete. Or have you performed an audit YES				
		Ensure measures to incorporate new information is timely and effective <u>YES</u>				
Inspector's	Comments	A summary of the existing records that are utilized by Avista's IM Plan and v	where t	hey ar	e locat	ed
		history, exposed piping reports and excavation damage experience.	g recor	dent a ds, ma	ind lea	k nce
		Page 18 5.4-1 and Appendix A, page A31 ids all sub categories for leak failur bases, Used Data Collection matrix to determine what information they new	e and eded to	A32, lis collec	sts all c :t	lata
8	.1007(a)(3)	Does the plan list the additional information needed to fill gaps due to missing, inaccurate, or incomplete records?				
		After Ques7, they should have list of information that will need to be collected in the future. List may be in plan or referenced. Review it				
Inspector's	Comments	Section 5.4, Avista uses an in house Data Collection Matrix to list addineeded to fill gaps.	tional	inforn	nation	

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	 Table 5.4-1 and Table 5.5-1, Appendix A, Avista redesigned forms and provid documentation. Inspectors asked for documentation, Always done in Safety training, there are roasters for all training. 1. Made new forms ie Gas Material failure report, With all required and hel Updated exposed pipe condition report (made 3 updates to it). And NOTE p whenever new forms used. Now putting manufacture and part # and SN nu and maps. 3. All information is uploaded electronically to interface with GIS Operating Order (green) and reviewed electronic screen 4. Damage Prevent by state and map showing example of priority aldyl A 	ded tra y Meeti provide imber c S ERSI p ion 201	format format d train on all in orogran 1 CGA	o enha I O&M ing nstallat n: Gas -DIRT (nce ions data
10	.1007(a)(5)	Do the written procedures require the capture and retention of data on any new pipeline installed?				
Inspector'	s Comments	Section 5.5, reference to O&M section 5.11. Section 5.5 Data is continuousl construction of new facilities, reconstruction of existing facilities and ongoin maintenance. Information currently collected about new pipeline installation diameter, installation date location of facilities with dimensions, casing/con Additional information to be captured on as-built documents is installation backfill/padding, pipe specifications of newly installed pipe. For other mate information to be captured is description of component, size, and manufact marked and it is identifiable. This information is to be captured on form N-2 Material List which is separate from the as-built drawing and spatially mapp geographical information (GIS) system.	y collect ng oper on is pip duit, a methoo rials ins curer, p 2652 Co bed in A	cted fo ations be mat nd trac d of pij stalled art nui nstruc wista's	r both and erial, cer win pe, the mber if tion	e. [:] it is
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? Section 5.5 Ensure procedure that retired pipe is removed from the threat assessment and risk evaluation. Yes, always has new in plan and old archived				
Inspector'	Every table is tied to data collected. Section 5.5 Data is continuously collect of new facilities, reconstruction of existing facilities and ongoing operations Information currently collected about new pipeline installation is pipe mate installation date location of facilities with dimensions, casing/conduit, and information to be captured on as-built documents is installation method of pipe specifications of newly installed pipe. For other materials installed the captured is description of component, size, and manufacturer, part number identifiable. This information is to be captured on form N-2652 Construction separate from the as-built drawing and spatially mapped in Avista's geograp system. Removed and abandoned pipeline data is archived for future reference	ed for and m rial, dia tracer v pipe, b inform if it is i n Mate phical in ence.	both c ainten ameter vire. A ackfill, ation 1 narkeo rial List nforma	onstruc ance. r, ddition /paddii co be d and it t which ation (0	ction nal ng, is is is 51S)	
12	.1007(a)	Does the documentation provided by the operator demonstrate implementation of the element "Knowledge of the System"?	\square			

Inspector's Comments		Yes				
13	13.1007(a)Has the operator demonstrated an understanding of its system?		\boxtimes			
Inspector's Comments		Through documentation review and interviewing personnel, it appears the ounderstanding of their system as they view it	compa	ny has	a thor	ough

		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 				
Inspector's	Comments	Threats identified as applicable to the gas distribution pipeline are document 6.1-1. (Section 6, page 20)	ted in <i>l</i>	Append	dix B, Ta	ble
15	.1007(b)	Did the operator consider the information that was reasonably available to identify existing and potential threats?	\boxtimes			
		maintenance history, and excavation damage records were used to id Avista's distribution system. Section 6.2, Other potential threats were Matter Experts, example is internal corrosion biological and chemical have been no failures or incidents these internal corrosion threats co threat to Avista's steel pipelines. Identification of future potential thr routinely monitoring information from sources that include: National Safety Board (NTSB) Reports, PHMSA Advisory Bulletins, Membership national gas associations (e.g. American Gas Association, Northeast Ga Gas Association, etc.) and involvement in Association workshops and knowledge regarding distribution pipeline threats Appendix A, Table 6.2-1	entify ident , even uld po eats is Trans) in a l as Asso forum	existi ified u thoug tentia accor sporta ocal, r ociatio s that	ng thre sing Su th there lly be a nplishe tion an egional on, Sout share	ats to ibject ed by id l, or thern
16	Only	Does the plan subdivide the primary threats into subcategories to identify existing and potential threats?	\square			
Inspector's	Comments	Yes Table 6.1-1, Appendix c				
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 unknown pipe yes no				
Inspector's CommentsSection 6.1, Available leak repair, incident data, material failure reports and operational maintenance history, and excavation damage records were used to identify existing three Avista's distribution system. For unknown pipe, Avista is scrubbing old records to try an determine pipe and material or 53.07 (Table 9.5.2, 280261 feet) miles of unknown pipe their system.					and ats to id in	

18	Information Only	Does the plan categorize primary threats as either "system-wide" or "localized"?									
	,	All System-wide	All Localized		Some	of Bot	h		Not lo	dentifie	d
Inspector's	Avista demonstrated their GIS ERSI program for categorizing both system wide Raster's are completely overlaid on Avista's GIS facilities. The raster then take distribution facilities or assets within its 50-foot grid and applies the defined r weightings that apply to those facilities based on each category model				de and kes the I risk fa	l localiz mapp ictors a	zed thre ed and	ats.			
19	Information Only	Do the written proced information, data fror government agencies, identifying potential t	lures consider, in additi n external sources (e.g. , or other system opera hreats?	on to f trade tors, e	the op associ tc.) to	erator ations assist	's own s, in				
Inspector's Comments Ves, Section 6.2, potential threats and form an own information, Identification of potent information from sources that include: Na Reports, PHMSA Advisory Bulletins, Memb associations (e.g. American Gas Associatio Association, etc.) and involvement in Asso knowledge regarding distribution pipeling				in back l threa onal Tr rship i North ation v	c of App ats is a ranspo in a loc least G works <u>s.</u>	pendix ccom ortatio cal, reg as Ass hops a	B. In ac plished on and s gional, sociatio and foru	Idition by row Safety or nat on, Sou ums th	n to th utinely Board ional g ithern at sha	e opera y monit l (NTSE gas Gas re	ator's toring 3)
20	.1007(b)	implementation of the	e element "Identify Thre	eats"?	aemoi	nstrati	e	\square			
Inspector's	Comments	YES, Section 6.2 and Tal	ole 6.2-1								
		192.1007	'(c) Evaluate and	d Rai	nk R	isk					
Question No.	Rule §192		Description					S/Y	U/ N	N/A	N/C
21	Information Only	Was the risk evaluation	on developed fully or in	part u	sing a	comm	ercially	availa	ble to	ol?	
	,	Fully	Partially 🔀		Not at	all					
Inspector's	Comments	Avista Utilities chose to Analyst extension in cor and maintenance data t	utilize the ESRI® Arc GIS njunction with Avista's ge tables (AFM) to build thei	Model ograpi r spatia	Builde hical in al risk r	r envir forma nodels	onment tion syst	:, with :em (G	the Aro IS) and	GIS Spa operati	itial ional
22	.1007 (c)	Do the written proced	lures contain the metho	od use	d to de	eterm	ine				
		risks posed?	ce of each threat and es	timate	e and r	ank tr	ne	\square			
Increator's	Commonts	Briefly describe the m	ethod. ESRI addel is broken into a sori	ioc of t	broat c	atogo	n modo	la Eacl	a throa	t cotog	2514
Inspector s	Comments	identified in Section 6. N defined. For each defined a raster dataset with a s	egory of risk (threat) as de Within each threat catego ed risk, the data is proces 50-foot grid that gets ove	efined ory moo sed, as rlaid o	in 49 C del, the signed n Avista	FR, §19 FR, §19 e risks a risk a's fac	92.1015 associat ranking ilities in	(b)(2) a ed wit score, GIS.	h threa h that and co	ossible categor nvertec	as y are l into
23	.1007 (c)	For questions 23 – 25, procedures to evaluat consider: Each applicable curren threat?	do the written and rank risk nt and potential	s Corrosion	۰ Natural Forces	 Excavation Damage 	Other outside Force ^o Damage	۰ Material or Welds	۰ Equipment Failure	^o Incorrect Operation	ہ Other Concerns
1											

PHMSA Form 22 (192.1005-192.1011) Gas Distribution System DIMP Inspection, September 23, 2011, Rev 0.

24		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	g: S fo cked	or "Sa ".	tisfact	ory", U	for "U	nsatis	factory	,, ,
Inspector's	s Comments	Section 7, page 23. [Risk_Unknown_Pipe] + [Ris [Risk_Material]+ [Risk_NaturalForces]+ [Risk_Corro [Risk_JointWeld] The final risk total score represents an SME weight the gas system based on the risk factors and applie information on the factors and weightings. It then multiplies the Risk_Total (<i>which represents</i> consequences for that raster as follows: Calculate Field Total_Score: [Consequence] * [Risk_Total] To determine the impact a gas system failure can h consequence model include population density, pi business district and migration of gas. The output is a risk score for each threat category; threat category scores and the consequence scores each threat category by a 50 foot geographical loca	k_Ou osion ed p ed we the s pelin the t s; and	ItsideF I]+ [Ris Probabi Proba	Forces] K_Equi lity wh gs, see eighted adjace rating p sk scor atio/pe	+ [Risk_ ipment] ich is th section d probal ent comp pressure e which ercentag	Incorre + [Risk e total 7.3.2 f bility) k munity , locati is an a ge of ris	ectOps] _Excav aggrea for add by the a the fa on wit ggrega sk attri	+ ation]+ gated ris itional actors fo hin a ite of al butable	sk to or the I the to
26	.1007 (c)	If subdivision of system occurs, does the plan s into regions with similar characteristics and for are likely to be effective in reducing risk?	ubdi whi	vide tl ch sim	he syst iilar ac	tions				
Increator	Commonto	Briefly describe the approach. Use GIS and ras	kers			Custon				
inspectors	Comments	increments. Raster's are completely overlaid on A mapped distribution facilities or assets within its 5 weightings that apply to those facilities based on e	vista Avista 0-foc each o	a's GIS ot grid catego	faciliti and ap	es. The i plies th lel.	raster t e defin	hen ta ed risk	kes the factors	and
27	Information Only	Is the method used to evaluate and rank risks i	reasc	onable	?		\square			
Inspector's	s Comments	Yes, very complete as viewed by the operator.							•	•
28	.1007(c)	Are the results of the risk ranking supported by model/method?	/ the	risk e	valuat	ion				
Inspector's	s Comments	Yes, Appendix C Table 7.3-1 Risk Factors and Weightings is and in-depth modeling of their risk evaluation model for system threats.								
29	.1007(c)	Did the operator validate the results generated model/method? Briefly describe.	l by t	he ris:	k evalı	uation	\boxtimes			
Inspector's	s Comments	Validation for results was performed by SME's. Av crews for additional input. However, Field district input to SME's.	ista a persc	lso too onnel a	ok info ire vali	rmation dation g	to dist roups,	rict off and o	fices and nly prov	d ⁄ide
30	.1007(c)	Does the documentation provi ded by the oper implementation of the element "Evaluate and	rator Rank	demo Risk"	onstrat ?	e	\boxtimes			
Inspector's	s Comments	Yes,								

192.1007 (d) Identify and implement measures to address 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?	\boxtimes			
Inspector's	Comments	Table 8.2.1, Appendix E, Identifies measures to reduce risk beyond part 19 separate measures have been identified with procedures to reduce risk.	92 requi	iremen	ts. Eigh	t
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?	\boxtimes			
Inspector's	Comments	Section 8.2.1 and appendix E, Identifies the threat category, additional ac reduce risk, performance measure, implementation timeframe, and curre on a 5 YR average frequency of failure.	tions re nt year	quired 's perfo	, measu ormance	res to e based
33	.1007 (d)	omplete the table at the end of this form: <i>Threat Addressed, Measure to Reduce Risk, and</i> erformance Measure				
Inspector's	Comments	Filled out Table 1: Threat Addressed, Measure to Reduce Risk and Perform	nance N	leasur	е	
34	.1007 (d)	 Does the plan include an effective leak management program (unless all leaks are repaired when found) 1. Locate the leaks in the distribution system; 2. Evaluate the actual or potential hazards associated with these leaks; 3. Act appropriately to mitigate these hazards; 4. Keep records; and 5. Self-assess to determine if additional actions are necessary to keep people and property safe. 				
Inspector's Comments Section 8, Appendix D and Appendix E, Procedur Maintenance manuals.		Section 8, Appendix D and Appendix E, Procedures are maintained in the Maintenance manuals.	compan	ies' Op	peration	s and
35	.1007(d)	Does the documentation provided by the operator demonstrate implementation of the measures, required by Part 192 Subpart P, to reduce risk?	\boxtimes			
Inspector's	Comments	Yes, Linda has requested a Damage Prevention coordinator, currently each stats for evaluation	districts	s handl	es, hard	to get

19	192.1007(e) Measure performance, monitor results, and evaluate effectiveness																					
Ques No	tion 0.	Rule §192			Descriptio	n			S/Y	U/ N	N/A	N/C										
36	.1007(e) Does the plan contain written procedures for how the operator established a baseline for each performance measure? PG 41 AND PG 43		tain written w the ned a baseline ance AND PG 43	i) Number of hazardous leaks either eliminated or repaired, categorized by cause? YES	ii) Number of excavation damages? YES	iii) Number of excavation tickets received by gas department ? YES	iv) Total number of leaks either Num eliminate haza d or leaks repaired elim categorize or re d by cate cause? by m YES		v) m nber of op ardous ar s either ev inated ef epaired, IN gorized co naterial? id YES		v) Number of hazardous leaks either eliminated or repaired, categorized by material? YES		v) Number of hazardous leaks either eliminated or repaired, categorized by material? YES		v) Number of hazardous leaks either eliminated or repaired, categorized by material? YES		v) Number of hazardous leaks either eliminated or repaired, categorized by material? YES		v) Number of hazardous leaks either eliminated or repaired, categorized by material? YES		vi) dditiona ures the tor dete eeded to ate the iveness ogram ir olling ea fied thro YES	of the ch eat?
37	Does base meas 9.1.1 for to 9.2-1 mate addin dama will h inspe	the plan esta line for each sure? Appen . excavation otal # of leak tional # cor age preventionave manage ectors	ablish a performance dix F Table 9.4-1, 9.3.1 is s eliminated, s leaks by other oporate on program r and # of	YES	YES	YES	YES	YE	S		YES											
38	Does proce for e meas Data	the operator edures to coll ach performa sure? Page 4 Collection	r have written lect the data ance 2 Section 9.6	YES	YES	YES	YES	YE	S		YES											
39	Do th requ mon meas (EISR PSE I	ne written pro ire the opera- itor each perf sure? Note: tool used) A NO GIS MAP	ocedures tor to formance NW, CNG ILL HAVE GIS,	YES	YES	YES	YES	YE	S		YES											
		Mark eac	h box above wi N/A f	th one of the or "Not Appli	following: S icable" and N	 for "Satisfac N/C for "Not (L tory", U for Checked".	"Unsat	isfact	ory",												

Inspector's	Comments	Section 9 and appendix F of Avista's DIMP plan contains written procedures for each performance measure, collecting data, and monitoring the perform	for es	tablish of each	ing a b baseli	aseline		
40	.1007 (e)	When measures are required to reduce risk, do the written procedures provide how their effectiveness will be measured?						
Inspector's	Comments	Section 10.2, Effectiveness Review, Avista's effectiveness review is maintain several areas as follows: 10.2 Effectiveness Review, An assessment of the per described in Sections 9.1 through 9.6 shall be performed. In cases where the specified is met or exceeded, a re-evaluation of the associated threats and r it is determined that the current Additional/Accelerated Action is not stabilit threat, then another Additional/Accelerated Action maybe required; howev years' worth of monitoring to truly determine if the Additional/Accelerated should be noted on the re-evaluation form titled Performance Measures that shown in Appendix G. This determination shall be accomplished using the p 10.2.1 Re-Evaluation Criteria of Performance Measures.	section 10.2, Effectiveness Review, Avista's effectiveness review is maintained in their plan and uses several areas as follows: 10.2 Effectiveness Review, An assessment of the performance measures described in Sections 9.1 through 9.6 shall be performed. In cases where the re-evaluation criteria specified is met or exceeded, a re-evaluation of the associated threats and risks shall be completed. If it is determined that the current Additional/Accelerated Action is not stabilizing or reducing the threat, then another Additional/Accelerated Action maybe required; however, it may take a couple of years' worth of monitoring to truly determine if the Additional/Accelerated action is effective. This should be noted on the re-evaluation form titled Performance Measures that Exceeded Baseline, shown in Appendix G. This determination shall be accomplished using the process flow as outlined in 10.2.1 Re-Evaluation Criteria of Performance Measures					
41	Information Only	Can the performance measures identified by the operator in the plan be counted, monitored, and supported?	\boxtimes					
Inspector's Comments		Yes, created performance by assets. Tables 9.1-1 contains hazardous leaks I Breakout of leaks, 5 Year average of leaks, 5 yr. baseline, 5 yr. average by fa Re-evaluation required and performance measure. Table 9.2-1 contains the concerning hazardous leaks eliminated/repaired categorized by material. Ta performance measures system wide by primary threats.	by cate cility/r same i ble 9.3	egory c mile (o inform 3-1 con	ause, r # of f ation ntains t	acility), he		
42	.1007(e)	Does the documentation provided by the operator demonstrate implementation of the element "Measure Performance, Monitor Results, and Evaluate Effectiveness"?						
Inspector's	Comments	Yes, summary question of 36-41.						

		192.1007(f)Periodic Evaluation and Improvement	t			
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.)? form scatter in section 10. 	\square			
		 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 are not appropriate, refine/improve them? 	\boxtimes			
		An performance measurements shall be reviewed periodically but not to ex- years to determine that it is effective and that the right measurement is bei determined that the measurement is not effective, a new one shall be develo threat that it is measuring and a new baseline shall be established. The re-evaluation of threats and risks shall be documented in the form title that Exceeded Baseline, Table 10.2-1 in Appendix G. The results of the re- documented in Appendices B and C. The review shall also establish whethe evaluation shall be completed in a shorter timeframe than five years; this d documented.	ed Perf ed Perf evaluat r a con lecision	d. If it nd app formation sh mplete n shall	is lied to the nce Mea all be progra also be	5 the sures m re-
44	Information Only	Does the plan contain a process for informing the appropriate operating personnel of an update to the plan?	\boxtimes			
Inspector's	Comments	In Plan Forward, last 2 sentences, same as all manuals, plan is the thru intrar This annual duty is listed page 43 section 10. 1. The process of how is will be make it more clear in addition to Forward information. A memo is sent for e to plan Section 10.1 contains procedures for updating the DIMP plan. Updates to the to company personnel through change sheets sent out to the district manage companies' intranet.	et and added very ch plan a ers and	sent o under nange/ are con placeo	ut annu 10.1 w update nmunica d on the	ially. ill made ated
45	Information Only	Does the plan contain a process for informing the appropriate regulatory agency of a significant update to the plan?	\square			
Inspector's	Comments	Appendix c. There is a revision control for each model. And Performance Mo	easure	s Appe	ndix F.	
46	.1007(f)	Does the documentation provided by the operator demonstrate implementation of the element "Periodic Evaluation and Improvement"?	\boxtimes			
Inspector C	Comments	Yes, Appendix G, Table 10. 1-1	I		1	1

		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	Section 11.1 is the guidance for report distribution. The annual report which shall also be sent to each respective State Pipeline Safety Authority in the Sta and Oregon) where the gas distribution pipeline is located. A copy of the rep the Distribution Integrity Management Program files per the requirements or	include ate (Wa orts sh f Sectio	es the f ashing all be r on 12	five mea ton, Idal naintair	asures ho ned in
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 Annual reporting requirements are also outlined in Avista's Gas Standards M for information on additional state reporting requirements.			anual,	Specif	ication 4	4.14
49	.1007(g)	Has the operator submitted the required reports?	\square			
Inspector's	Comments	Yes	1		1	1

19	2.1009 \	What must an operator report when mechanical f	ittin	igs fa	ail?	
Question No.	Rule §192	Description	S/Y	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?	\square			
Inspector's	Comments	Section 11.2, report at the end of the year. Section 11.2, Operators are requ mechanical fitting failure information for each mechanical failure that results during the calendar year beginning January 1, 2011. Each failure shall be sub Mechanical Fitting Failures. This form(s) shall be submitted to PHMSA annua 15 for the previous year's data. (Operators are permitted to submit mechani forms throughout the year.)	ired to s in a h omittec lly by r cal fitti	begin azardo I on fo no late ing fail	collectin ous leak rm F710 r than N ure repo	ng 10.1-2 Narch ort

		192.1011 What records must an operator keep?				
Question No.	Rule §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 12, Documentation demonstrating compliance with the requirement Subpart P shall be retained for at least 10 years.	s of 49	CFR, P	art 192,	

52	.1011	Does the operator have written procedures specifying that copies of superseded integrity management plans will be maintained for at least 10 years?	\boxtimes			
Inspector's	Comments	Section 12		•		
53	.1011	Has the operator maintained the required records?	\square			
Inspector's	ispector's Comments Yes, Reviewed 1. Book titled Avista's Asset Management Protocol for Managing Select Aldy 1. Material Failure Spreadsheet, 2. material Failure Manufacture report (explanations), 3.Natural Forces, 4. Stevenson Slide Area, 5. Snow Areas, 6.Gopher research, 7. Book Avista's Assets Management Protocol for Managing select Aldyl A Pi 8. Avista Utilities Asset Management 2-23-12, 9.Proposed Protocol for Managing Select Aldyl A Pipe in Avista Utilities Natu 2, 10. DuPont Letter 1986 Attachment; 11. 3 NTSB Special Investigation Report Brittle Like Cracking in PE Pipe for Ga 5. Damage Prevention Report for Brittle Like Cracking in PE Pipe for Gas set 12. Program Change documents 13. Annual Reports, 14. Incident Reports 15. Damage Prevention, 16. Pressure Zones 17. Exposed Pipe Report 18. Patrolling Forms 19. Valve Maintenance Inspection 20. regulator Maintenance/Appendix A 21. Corrosion 22. Bridge Crossings (Patrol) documents		pe, ral Gas s Servi rvice,	Syster ce; att	n Attacl	nment t

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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 NOTE: Columns to	Threat Subcategory, as appropriate	Measure to Reduce Risk	Performance Measure
	Measure to Reduce Risk and Performance Measures only for Primary Threat	Measure to Reduce Risk and Performance Measures for Subcategories is not listed in this form.		
1	Excavation	Excavation Damage	 Repeat offender, tracking and training Create a corporate Damage prevention program NOTE: In 2012 an assigned committee will begin creating the framework for a Corporate prevention Program. 	1. Damages per 1000 locates

2	Material	Material Failure Pipe	Annual Leak Survey/Replacement Program NOTE: 2011 began annual leak survey and replacement program.* NOTE: 2011 began leak surveying main and service tees off the main. Also began a replacement Program* *In 2011, Avista began leak surveying Aldyl A main that is susceptible to slow crack growth and LDIW. Avista's hired a project manager to manage the replacement project. Avista's first project was the replacement of the main and service tees in Avista's Odessa WA system. The DIMP project team has provided the project manager with 17 initial strategic prioritized project areas across Avista'	Leaks per mile of susceptible pipe
3	Welds and Joints Note: 3 rd Primary threat and 3 rd subcategory threat are different.	Unknown Pipe Measure to reduce threat for Unknown Pipe: is to Research to determine unknown material of pipe segments. There are approximately 35 miles in WA Performance Measure for Unknown pipe: Percentage left of original identified segments	Continue trending	Leaks per mile of pipeline
4	Corrosion	 Corrosion external Corrosion Isolated Riser Corrosion-atmospheric 	 Corrosion external continue monitoring Corrosion Isolated Riser is Leaks per # of services Trend Failures 	 Corrosion external is leaks per mile of pipeline Corrosion Isolated riser is leaks per # of services Corrosion atmospheric is Leaks per # of meters

5	Unknown	Incorrect Operation-Improper	Research to determine	Percentage left of original
		installation	unknown material of pipe	identified segments
			segments	
	Note: 5 th primary threat			
	and 5 th subcategory threat	Note: Measure to reduce		
	are different	threat for Incorrect Operation		
		is internal crew/serviceman		
		inspections		
		Note: Performance Measure		
		is Leaks per mile of pipeline		

Other Inspector	Note: In Washington the Primary Threat and the subcategory treat are not the same. There are
Comments	notes in Threats 3 and 5 identifying them inside the above chart.