

## Gas Distribution Integrity Management - Plan Implementation

**1. Plan Implementation - Implement Date (detail)** *Was the plan written and implemented per the requirement of 192.1005 by 08/02/2011? (GDIM.QA.PLANIMPLEMENT.P) (detail)*

192.1005	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>

**Notes**

**2. Plan Implementation - Data Sources (detail)** *Do the procedures identify or reference the appropriate sources used to determine certain characteristics (e.g., Design, Operating Conditions, Operating Environmental Factors) necessary to assess the threats and risks to the pipeline? (GDIM.RA.SOURCES.P) (detail)*

192.1007(a)(1)	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>

**Notes**

## Gas Distribution Integrity Management - Knowledge of the System

**1. System Knowledge - Information Considered (detail)** *Do the 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.)? (GDIM.RA.INFORMATION.P) (detail)*

192.1007(a)(2)	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>

**Notes**

**2. System Knowledge - Gaps (detail)** *Does the plan contain procedures to identify additional information that is needed to fill gaps due to missing, inaccurate, or incomplete records? (GDIM.RA.GAPS.P) (detail)*

192.1007(a)(3)	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>

**Notes**

**3. System Knowledge - Information Needed (detail)** *Do the 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.)? (GDIM.RA.INFONEEDS.P) (detail)*

192.1007(a)(3)	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>

**Notes**

**4. System Knowledge - Information Needed (detail)** *Does the plan list the additional information needed to fill gaps due to missing, inaccurate, or incomplete records? (GDIM.RA.INFONEEDS.R) (detail)*

192.1007(a)(3)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**5. System Knowledge - New Pipe Data (detail)** *Do the procedures require the capture and retention of data on any new pipeline installed? (GDIM.RA.NEWPIPEDATA.P) (detail)*

192.1007(a)(5)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**6. System Knowledge - New Pipe Data (detail)** *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? (GDIM.RA.NEWPIPEDATA.R) (detail)*

192.1007(a)(5)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**7. System Knowledge - Implementation (detail)** *Do records demonstrate implementation of the element "Knowledge of the System"? (GDIM.RA.DEMOKNOWLEDGE.R) (detail)*

192.1007(a)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**8. System Knowledge - Understanding (detail)** *Has the operator demonstrated an adequate understanding of the system? (GDIM.RA.DEMOUNDERSTANDING.R) (detail)*

192.1007(a)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Identify Threats

**1. Identify Threats - Threats Considered (detail)** *In identifying threats, do the procedures include consideration of all of the required threat categories to each gas distribution pipeline? (GDIM.RA.THREATCATEGORIES.P) (detail)*

192.1007(b)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**2. Identify Threats - Information Considered (detail)** *Did the operator consider the information that was reasonably available to identify existing and potential threats? (GDIM.RA.INFOCONSIDERED.P) (detail)*

192.1007(b)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**3. Identify Threats - Information Considered (detail)** *In identifying threats did the information considered include all of the required data and information sources? (GDIM.RA.INFOCONSIDERED.R) (detail)*

192.1007(b)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**4. Identify Threats - Outside Sources (detail)** *Do the 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? (GDIM.RA.OUTSIDESOURCES.P) (detail)*

192.1007(b)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**5. Identify Threats - Implementation (detail)** *Do records demonstrate implementation of the element "Identify Threats"? (GDIM.RA.IMPLEMENTTH.R) (detail)*

192.1007(b)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Evaluate and Rank Risk

**1. Rank Risk - Methodology (detail)** *Do the procedures contain the method(s) used to determine the relative importance of each threat and estimate and rank the risks posed? (GDIM.RA.RISKRANKING.P) (detail)*

192.1007(c)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**2. Rank Risk - Threats Considered (detail)** *Do the procedures to evaluate and rank risk consider each applicable current and potential threat? (GDIM.RA.THREATSCONSIDERED.P) (detail)*

192.1007(c)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**3. Rank Risk - Likelihood (detail)** *Do the procedures to evaluate and rank risk consider the likelihood of failure associated with each threat?* (GDIM.RA.LIKELIHOOD.P) (detail)

192.1007(c)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**4. Rank Risk - Consequences (detail)** *Do the procedures to evaluate and rank risk consider the potential consequence of failure for all applicable threats?* (GDIM.RA.CONSEQUENCE.P) (detail)

192.1007(c)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**5. Rank Risk System Subdivision (detail)** *If subdivision of system occurs, does the plan subdivide the system into regions with similar characteristics and for which similar actions are likely to be effective in reducing risk?* (GDIM.RA.SUBDIVIDE.R) (detail)

192.1007(c)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**6. Rank Risk - Results (detail)** *Are the results of the risk ranking supported by the risk evaluation model/method?* (GDIM.RA.RESULTS.R) (detail)

192.1007(c)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**7. Rank Risk - Validation (detail)** *Did the operator validate the results generated by the risk evaluation model/method?* (GDIM.RA.RESULTSVALIDATION.R) (detail)

192.1007(c)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**8. Rank Risk - Implementation (detail)** *Do records demonstrate implementation of the element "Evaluate and Rank Risk"?* (GDIM.RA.IMPLEMENTRR.R) (detail)

192.1007(c)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Identify and Implement Measures to Reduce Risk

**1. Measures to Reduce Risk - Identification (detail)** *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? (GDIM.PM.IDENTIFYMEASURES.P) (detail)*

192.1007(d)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**2. Measures to Reduce Risk - Identification (detail)** *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? (GDIM.PM.IDENTIFYMEASURES.R) (detail)*

192.1007(d)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**3. Measures to Reduce Risk - Leak Management (detail)** *Does the plan include an effective leak management program (unless all leaks are repaired when found)? (GDIM.PM.LEAKMANAGEMENT.P) (detail)*

192.1007(d)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**4. Measures to Reduce Risk - Implementation (detail)** *Do records demonstrate implementation of the measures, required by Part 192 Subpart P, to reduce risk? (GDIM.PM.IMPLEMENTPM.R) (detail)*

192.1007(d)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Measure Performance and Evaluate Effectiveness

**1. Measure Performance - Baseline (detail)** *Does the plan contain procedures for how the operator established a baseline for each performance measure? (GDIM.QA.PERFMEASUREBASELINE.P) (detail)*

192.1007(e)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**2. Measure Performance - Baseline (detail)** *Does the plan establish a baseline for each performance measure? (GDIM.QA.PERFMEASUREBASELINE.R) (detail)*

192.1007(e)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**3. Measure Performance - Data Collection (detail)** *Does the operator have procedures to collect the data for each performance measure? (GDIM.QA.PERFMEASUREDATA.P) (detail)*

192.1007(e)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**4. Measure Performance - Monitoring (detail)** *Do the procedures require the operator to monitor each performance measure? (GDIM.QA.PERFMEASUREMONITOR.P) (detail)*

192.1007(e)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**5. Measure Performance -Measure Effectiveness (detail)** *When measures are required to reduce risk, do the procedures provide how their effectiveness will be measured? (GDIM.QA.MEASUREEFFECTIVENESS.P) (detail)*

192.1007(e)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**6. Measure Performance - Implementation (detail)** *Do records demonstrate implementation of the element "Measure Performance, Monitor Results, and Evaluate Effectiveness"? (GDIM.QA.IMPLEMENTEV.R) (detail)*

192.1007(e)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Periodic Evaluation and Improvement

**1. Periodic Evaluation - Requirements (detail)** *Do the procedures for periodic evaluation include all of the requirements of 192.1007(f)? (GDIM.CA.PERIODICEVALUATION.P) (detail)*

192.1007(f)

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**2. Periodic Evaluation - Implementation (detail)** *Do records demonstrate implementation of the element "Periodic Evaluation and Improvement"?* (GDIM.CA.PERIODICEVALUATION.R) (detail)

192.1007(f)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Report Results

**1. Report Results - Performance Measures (detail)** *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?* (GDIM.RR.ANNUALREPORT.P) (detail)

192.1007(g)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

**2. Report Results - Submittal (detail)** *Has the operator submitted the required reports?* (GDIM.RR.SUBMITREPORTS.R) (detail)

192.1007(g)

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Report Mechanical Fitting Failures

**1. Mechanical Fitting Failures - Information Collection (detail)** *Are there procedures to collect information necessary to comply with the reporting requirements of 192.1009?* (GDIM.RR.MECHANICALFITTINGS.P) (detail)

192.1009

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

## Gas Distribution Integrity Management - Records Required to be Kept

**1. Records - Requirements (detail)** *Are there procedures specifying which records demonstrating compliance with Subpart P will be maintained for at least 10 years?* (GDIM.OA.RECORDREQUIREMENTS.P) (detail)

192.1011

Sat+	Sat	Concern	Unsat	NA	NC

**Notes**

PHMSA Form 22 Question Set (IA Equivalent)  
Distribution Integrity Management Program (GDIM) Inspection Form

**2. Records - IM Plans (detail)** *Are there procedures specifying that copies of superseded integrity management plans will be maintained for at least 10 years?* (GDIM.QA.PLANRETENTION.P) (detail)

192.1011

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

**3. Records - Implementation (detail)** *Has the operator maintained the required records?* (GDIM.QA.RECORDREQUIREMENTS.R) (detail)

192.1011

Sat +	Sat	Concern	Unsat	NA	NC

**Notes**

## DIMP – GDIM IA Program Information Form

<b>Plan Implementation - Products Used</b>			
No.	Rule	Text	Result (Fully, Partially, Not at all)
1	Information Only	Were commercially available product(s)/templates used in the development of the operator's written integrity management plan?	
Considerations		<ol style="list-style-type: none"> <li>1. Document commercial product(s)/template's name if used, and extent of use (fully or partially).</li> <li>2. This informational question is intended to discern which, if any, commercially available products were used to write the plan. This question is not intended to include risk evaluation tools or models which are covered in GDIM.RA.RISKRANKING.P in the "Evaluate and Rank Risk" section.</li> <li>3. Operators who use commercial products must adapt the basic materials with operator specific information and procedures.</li> <li>4. Examples of commercial products that can be used to develop DIMP plans include, but are not limited to: SHRIMP - Simple Handy Risk Integrity Management Program; GPTC Guide Material Appendix G192-8 DIMP; MEA Distribution Integrity Management Plan Preparation Aid; NGA/SGA DIM Framework Document and User's Guide.</li> </ol>	
Comments			

<b>System Knowledge – Information Sources</b>			
No.	Rule	Text	Result (Electronic, Paper, SME, All of the above)
2	Information Only	Do the written procedures indicate if the information was obtained from electronic records, paper records, or subject matter expert knowledge?	
Considerations		<ol style="list-style-type: none"> <li>1. Document which types of records were used for particular information sets (electronic, paper, SME).</li> <li>2. The purpose of this question is to identify the sources of information that an Operator is using to understand the adequacy and relevancy of the information for making assumptions, decisions, etc. If the source of the data is questionable, the data becomes questionable.</li> <li>3. It is helpful if operators list the format and location of the document in the information source list.</li> <li>4. If data is stored in an electronic format, it may be readily usable for trending historic data. Operators should document the dataset which was used to develop knowledge of the system.</li> <li>5. While this question is for information only, the answer may guide the inspector to a need to investigate further responses to other questions regarding knowledge of the system, identifying threats, and evaluating and ranking risks. For example, this question can be used as an opportunity to examine the qualifications of Subject Matter Experts. Inadequate qualifications of SMEs can affect the quality of information generated by those experts for use in developing or implementing DIMP.</li> </ol>	
Comments			

PHMSA Form 22 Question Set (IA Equivalent)  
Distribution Integrity Management Program (GDIM) Inspection Form

Measures to Reduce Risk – Table		
No.	Rule	Text
3	192.1007(d)	Complete the table: Threat Addressed, Measure to Reduce Risk, and Performance Measure
Considerations		<p>1. The inspector should complete the following table describing measures to reduce risk that the operator has or is planning on implementing along with identifying the threat that the measure is addressing and the performance measure that will be used to evaluate the implemented measure's effectiveness. This data will be analyzed by NAPS and PHMSA to generate information available to stakeholders. The statements input into the table by the Inspector should be concise but convey enough information to be able to draw conclusions from it.</p>
Comments		

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:				
<ul style="list-style-type: none"> <li>• Primary threat category (corrosion, natural forces, excavation damage, other outside force damage, material or weld, equipment failure, incorrect operation, and other concerns)</li> <li>• Threat subcategory (GPTC threat subcategories are acceptable. Try to be specific. Example, failing bonnet bolts of gate valve, manufacturer name, model #)</li> <li>• Measure to reduce the risk (list the one measure the operator feels is most important to reducing the risk)</li> <li>• Associated performance measure</li> </ul>				
Rank	Primary Threat Category*	Threat Subcategory, as appropriate	Measure to Reduce Risk	Performance Measure
1.				
	Comments			
2.				
	Comments			
3.				
	Comments			
4.				
	Comments			
5.				
	Comments			
* Corrosion, Natural Forces, Excavation Damage, Other Outside Force Damage, Material or Weld, Equipment Failure, Incorrect Operation, Other Concerns				

PHMSA Form 22 Question Set (IA Equivalent)  
Distribution Integrity Management Program (GDIM) Inspection Form

Rank Risk – Model			
No.	Rule	Text	Result (Fully, Partially, Not at all)
4	Information Only	Was the risk evaluation developed fully or in part using a commercially available tool?	
Considerations		<ol style="list-style-type: none"> <li>1. Document commercially available tool's name, if used, and the extent of use (fully or partially).</li> <li>2. While this is an information-only question, it may guide the depth to which an inspector must investigate following questions. For example, use of SHRIMP has been determined to address successfully certain portions of the regulation.</li> <li>3. The operator may have used several methods or tools to evaluate risk. The procedure may have included use of commercially available tools, operator developed tools, and/or subject matter experts. For example, the operator may have used a commercial tool to develop their replacement program but used subject matter experts to evaluate risks with different measure to address risk. Select all applicable boxes which reflect their procedure.</li> <li>4. Examples of commercial products that can be used for risk evaluation include, but are not limited to: SHRIMP - Simple Handy Risk Integrity Management Program; GPTC Guide Material Appendix G192-8 DIMP; MEA Distribution Integrity Management Plan Preparation Aid; NGA/SGA DIM Framework Document and User's Guide; Optimain DS Software. Note that Operators may have used these products for portions of their DIMP plan even when the plan was nominally developed in-house.</li> <li>5. SHRIMP: The application contains a risk evaluation tool.</li> </ol>	
Comments			

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