

Assessment and Repair - Confirmatory Direct Assessment

4. CDA Plan (confirm) *Is an adequate Confirmatory Direct Assessment Plan in place?* (AR.CDA.CDAPLAN.P)
 (confirm)

192.931(a) (192.931(b); 192.931(c); 192.931(d))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. External Corrosion Plan (detail) *Do records indicate that the external corrosion plan was properly implemented?* (AR.CDA.CDAEXTCORR.R) (detail)

192.947(h) (192.931(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. Internal Corrosion Plan (detail) *Do records demonstrate that the internal corrosion plan was properly implemented?* (AR.CDA.CDAINTCORR.R) (detail)

192.947(h) (192.931(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. Remediation of Indications (detail) *Do records demonstrate that the next assessment should have been accelerated?* (AR.CDA.CDAINDICATION.R) (detail)

192.947(h) (192.931(d))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Assessment and Repair - External Corrosion Direct Assessment (ECDA)

4. ECDA Plan (confirm) *Is an adequate ECDA plan and process in place for conducting ECDA?*

(AR.EC.ECDAPLAN.P) (confirm)

192.925(a) (192.925(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. ECDA Pre-Assessment (detail) *Do records demonstrate that the ECDA pre-assessment process complied with NACE SP0502-2008 Section 3 and 192.925(b)(1)?*

(AR.EC.ECDAPREASSESS.R) (detail)

192.947(g) (192.925(b)(1))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. Integration of ECDA Results with other Information (confirm) *Is the process for integrating ECDA results with other information adequate?*

(AR.EC.ECDAINTEGRATION.P) (confirm)

192.917(b) (B31.8S Section 4.5)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. Integration of ECDA Results with other Information (confirm) *Do records demonstrate that the operator integrated other data/information when evaluating data/results?*

(AR.EC.ECDAINTEGRATION.R) (confirm)

192.947(g) (192.917(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. ECDA Region Identification (detail) *Do records demonstrate that the operator identified ECDA Regions?*

(AR.EC.ECDAREGION.R) (detail)

192.947(g) (192.925(b)(1))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

9. ECDA Indirect Examination (detail) Do records demonstrate that ECDA indirect inspection process complied with NACE SP0502-2008 Section 4 and ASME B31.8S-2004, Section 6.4? (AR.EC.ECDAINDIRECT.R) (detail)

192.947(g) (192.925(b)(2))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

10. ECDA Direct Examination (detail) Do records demonstrate that excavations, direct examinations, and data collection were performed in accordance with NACE SP0502-2008, Sections 5 and 6.4.2 and ASME B31.8S, Section 6.4? (AR.EC.ECDADIRECT.R) (detail)

192.947(g) (192.925(b)(3))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

12. Quality of ECDA Data Analysis (confirm) Do records demonstrate that an analysis of the ECDA data and other information was adequate to identify external corrosion threats to the pipeline? (AR.EC.ECDAANALYSIS.R) (confirm)

192.947(g) (192.925(b)(4); 192.933(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

14. ECDA Post-Assessment (detail) Do records demonstrate that the requirements for post assessment were met? (AR.EC.ECDAPOSTASSESS.R) (detail)

192.947(g) (192.925(b)(4))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Assessment and Repair - Internal Corrosion Direct Assessment

4. ICDA Plan (confirm) *Is an adequate ICDA plan and process in place for conducting ICDA?* (AR.IC.ICDAPLAN.P) (confirm)

192.927(c) (192.927(a); 192.927(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. Pre-Assessment (detail) *Do records demonstrate that the requirements for an ICDA pre-assessment were met?* (AR.IC.ICDAPREASSESS.R) (detail)

192.927(c)(1) (192.947(g))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. Integration of ICDA Results with other Information (confirm) *Is the process for integrating ICDA results with other information adequate?* (AR.IC.ICDAINTEGRATION.P) (confirm)

192.917(b)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. Integration of ICDA Results with Other Information (confirm) *Do records demonstrate that other data/information was integrated when evaluating data/results?* (AR.IC.ICDAINTEGRATION.R) (confirm)

192.917(b) (192.947(g))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. ICDA Region Identification (detail) *Do records demonstrate that ICDA Regions were adequately identified?* (AR.IC.ICDAREGION.R) (detail)

192.947(g) (192.927(c)(2); 192.927(c)(5))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

9. Identification of Locations for Excavation and Direct Examination (detail) *Do records demonstrate that sites were identified where internal corrosion may be present?* (AR.IC.ICDADIRECT.R) (detail)

192.947(g) (192.927(c)(3); 192.927(c)(5))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

11. Post-Assessment Evaluation and Monitoring (detail) *Do records demonstrate that the operator assessed the effectiveness of the ICDA process?* (AR.IC.ICDAPOSTASSESS.R) (detail)

192.947(g) (192.927(c)(4)(i); 192.927(c)(4)(ii); 192.477)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

12. Quality of ICDA Data Analysis (confirm) *Do records demonstrate that an analysis of the ICDA data and other information was adequate to identify internal corrosion threats to the pipeline?* (AR.IC.ICDAANALYSIS.R) (confirm)

192.947(g) (192.927(c); 192.933(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Assessment and Repair - Repair Criteria

1. Definition of Discovery (confirm) *Does the integrity assessment process properly define discovery and the required time frame?* (AR.RC.DISCOVERY.P) (confirm)

192.933(b)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

3. Inclusion of All IM Repair Criteria (detail) *Does the operator's Integrity Management Plan and/or maintenance processes include all of the actions that must be taken to address integrity issues in accordance with 192.933? (AR.RC.IMPRC.P) (detail)*

192.933(a) (192.933(c); 192.933(d))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

4. Categorization of Defects (confirm) *Do records demonstrate that all defects were properly categorized? (AR.RC.DEFECTCAT.R) (confirm)*

192.947(f) (192.933(b); 192.933(d))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. Pressure Reductions Taken in Response to Remediation of Conditions (confirm) *Do records demonstrate that an acceptable pressure reduction was promptly taken for each immediate repair condition or when a repair schedule could not be met? (AR.RC.PRESSREDUCE.R) (confirm)*

192.947(f) (192.933(a))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. Prioritized Schedule (confirm) *Do records demonstrate that the operator developed a prioritized schedule? (AR.RC.SCHEDULE.R) (confirm)*

192.947(f) (192.933(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. Adequacy of Remediation (confirm) *Do records demonstrate that the remediation specified in the prioritized schedule was adequate to ensure the integrity of the pipeline until the next scheduled reassessment? (AR.RC.METHOD.R) (confirm)*

192.947(f) (192.933(a))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

8. Repair Criteria in Covered Segments (detail) *Does the repair process cover all of the elements for making repairs in covered segments? (AR.RC.CRITERIA.P) (detail)*

192.711(b) (192.703(a); 192.703(b); 192.703(c); 192.713(a); 192.713(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

9. Timely Remediation (confirm) *Do records demonstrate that defects in segments that could affect an HCA were remediated (i.e., repair, pressure reduction, or notification to PHMSA) within the applicable mandatory time limits of 192.933(d)? (AR.RC.SCHEDULEIMPL.R) (confirm)*

192.947(f) (192.933(d))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Assessment and Repair - Stress Corrosion Cracking

4. SCCDA Plan (confirm) *Is an adequate plan developed for performing SCCDA, if the conditions for SCC were present? (AR.SCC.SCCDAPLAN.P) (confirm)*

192.929(b)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. Collect and Evaluate Data (detail) *Do records demonstrate that data was collected and evaluated? (AR.SCC.SCCDADATA.R) (detail)*

192.947(g) (192.929(b)(1))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

6. Assessment Method (High pH SCC) (detail) *Do records demonstrate that an assessment was performed using one of the methods specified in B31.8S Appendix A3? (AR.SCC.SCCDAMETHOD.R) (detail)*

192.947(g) (192.929(b)(2))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. Assessing for Near Neutral SCC (detail) *From the review of the results of selected integrity assessments, was the pipeline evaluated for near neutral SCC? (AR.SCC.SCCDANEARNEUTRAL.R) (detail)*

192.947(g) (192.929(b)(2))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

9. Reassessment Interval (detail) *From the review of the results of selected integrity assessments, did the operator determine a reassessment interval based on SCCDA results? (AR.SCC.SCCDAREASSESSINTRVL.R) (detail)*

192.947(d) (192.939(a)(3))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Integrity Management - Baseline Assessments

1. IM Baseline Assessments - Methods (detail) *Does the process include requirements for specifying an assessment method(s) for each covered segment that is best suited for identifying anomalies associated with specific threats identified for the segment? (IM.BA.BAMETHODS.P) (detail)*

192.919(b) (192.921(a); 192.921(c); 192.921(h))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

2. IM Baseline Assessments - Methods (detail) *Do records demonstrate that the assessment method(s) specified for each covered segment is best suited for identifying anomalies associated with specific threats identified for the segment? (IM.BA.BAMETHODS.R) (detail)*

192.947(c) (192.919(b); 192.921(a); 192.921(c); 192.921(h))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

3. IM Baseline Assessments - Prioritized Schedule (detail) *Did the BAP process require a schedule for completing the assessment activities for all covered segments and consideration of applicable risk factors in the prioritization of the schedule? (IM.BA.BASCHEDULE.P) (detail)*

192.917(c) (192.919(c); 192.921(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

4. IM Baseline Assessments - Prioritized Schedule (confirm) *Do records demonstrate that the BAP contains a schedule for completing the assessment activities for all covered segments that appropriately considered the applicable risk factors in the prioritization of the schedule as required by the process? (IM.BA.BASCHEDULE.R) (confirm)*

192.947(c) (192.917(c); 192.919(c); 192.921(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. IM Baseline Assessments - New HCAs/Newly Installed Pipe (detail) *Does the process include requirements for updating the assessment plan for newly identified areas and newly installed pipe? (IM.BA.BANEW.P) (detail)*

192.911(p) (192.905(c); 192.921(f); 192.921(g))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. IM Baseline Assessments - New HCAs/Newly Installed Pipe (confirm) *Do records demonstrate that the assessment plan has been adequately updated for new HCAs and newly installed pipe? (IM.BA.BANEW.R) (confirm)*

192.947(d) (192.905(c); 192.911(p); 192.921(f); 192.921(g))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. IM Baseline Assessments - Environmental & Safety Risks (detail) *Does the process include requirements for conducting integrity assessments (baseline and reassessment) in a manner that minimizes environmental and safety risks? (IM.BA.BAENVIRON.P) (detail)*

192.911(o) (192.919(e))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. IM Baseline Assessments - Environmental & Safety Risks (detail) *Do records demonstrate that integrity assessments (baseline and reassessment) have been conducted in a manner that minimizes environmental and safety risks? (IM.BA.BAENVIRON.R) (detail)*

192.947(d) (192.911(o); 192.919(e))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Integrity Management - Continual Evaluation and Assessment

1. Periodic Evaluations (detail) *Does the process include requirements for a periodic evaluation of pipeline integrity based on data integration and risk assessment to identify the threats specific to each covered segment and the risk represented by these threats? (IM.CA.PERIODICEVAL.P) (detail)*

192.937(b) (192.917(a); 192.917(b); 192.917(c); 192.917(d); 192.917(e))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

2. Periodic Evaluations (confirm) *Do records demonstrate that periodic evaluations of pipeline integrity have been performed based on data integration and risk assessment to identify the threats specific to each covered segment and the risk represented by these threats? (IM.CA.PERIODICEVAL.R) (confirm)*

192.947(d) (192.917(a); 192.917(b); 192.917(c); 192.917(d); 192.917(e); 192.937(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

3. IM Continual Assessments - Methods (detail) *Is the approach for establishing reassessment method(s) consistent with the requirements in 192.937(c)? (IM.CA.REASSESSMETHOD.P) (detail)*

192.937(c) (192.931)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

4. IM Continual Assessments - Methods (detail) *Do records document the assessment methods to be used and the rationale for selecting the appropriate assessment method? (IM.CA.REASSESSMETHOD.R) (detail)*

192.947(d) (192.937(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. Low Stress Reassessments (detail) *Does the process include requirements for the "low stress reassessment" method to address threats of external and/or internal corrosion for pipelines operating below 30% SMYS? (IM.CA.LOWSTRESSREASSESS.P) (detail)*

192.941(a) (192.941(b); 192.941(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. Low Stress Reassessments (detail) *Do records demonstrate that the implementation of "low stress reassessment" method to address threats of external and/or internal corrosion is adequate and being performed as required? (IM.CA.LOWSTRESSREASSESS.R) (detail)*

192.947(d) (192.941(a); 192.941(b); 192.941(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. Reassessment Intervals (detail) *Is the process for establishing the reassessment intervals consistent with 192.939 and ASME B31.8S-2004? (IM.CA.REASSESSINTERVAL.P) (detail)*

192.937(a) (192.939(a); 192.939(b); 192.913(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

8. Reassessment Intervals (detail) *Do records demonstrate that reassessment intervals were established consistent with the requirements of the operator's procedures? (IM.CA.REASSESSINTERVAL.R) (detail)*

192.947(d) (192.937(a); 192.939(a); 192.939(b); 192.913(c))	Sat+	Sat	Concern	Unsat	NA	NC

Notes

9. Waiver from Reassessment Interval in Limited Situations (detail) *Does the process include requirements for reassessment interval waivers? (IM.CA.REASSESSWAIVER.P) (detail)*

192.943(a) (192.943(b))	Sat+	Sat	Concern	Unsat	NA	NC

Notes

10. Waiver from Reassessment Interval in Limited Situations (detail) *Do records demonstrate that reassessment interval waivers have been adequately implemented, if applicable? (IM.CA.REASSESSWAIVER.R) (detail)*

192.947(d) (192.943(a); 192.943(b))	Sat+	Sat	Concern	Unsat	NA	NC

Notes

11. Deviation from Reassessment Requirements based on Exceptional Performance (detail) *Does the process include requirements for deviations from reassessment requirements based on exceptional performance? (IM.CA.REASSESEXCPERF.P) (detail)*

192.913(a) (192.913(b); 192.913(c))	Sat+	Sat	Concern	Unsat	NA	NC

Notes

12. Deviation from Reassessment Requirements based on Exceptional Performance (detail) *Do records demonstrate that deviations from reassessment requirements are based on exceptional performance and have been adequately handled, if applicable? (IM.CA.REASSESEXCPERF.R) (detail)*

192.947(d) (192.913(a); 192.913(b); 192.913(c))	Sat+	Sat	Concern	Unsat	NA	NC

Notes

Integrity Management - High Consequence Areas

1. IM High Consequence Areas - HCA Identification (detail) *Does the process include the methods defined in 192.903 High Consequence Area (1) and/or 192.903 High Consequence Area (2) to be applied to each pipeline for the identification of high consequence areas? (IM.HC.HCAID.P) (detail)*

192.905(a)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

2. IM High Consequence Areas - HCA Identification (detail) *Do records demonstrate that the identification of pipeline segments in high consequence areas was completed by December 17, 2004 in accordance with process requirements? (IM.HC.HCAID.R) (detail)*

192.947(d) (192.905(a); 192.907(a); 192.911(a))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

3. IM High Consequence Areas - Potential Impact Radius (detail) *Is the process for defining and applying potential impact radius (PIR) for establishment of high consequence areas consistent with the requirements of 192.903? (IM.HC.HCAPIR.P) (detail)*

192.903 (192.905(a))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

4. IM High Consequence Areas - Potential Impact Radius (detail) *Do records demonstrate the use of potential impact radius (PIR) for establishment of high consequence areas consistent with requirements of 192.903? (IM.HC.HCAPIR.R) (detail)*

192.947(d) (192.903; 192.905(a))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

5. IM High Consequence Areas - Identified Sites (detail) *Does the process for identification of identified sites include the sources listed in 192.905(b) for those buildings or outside areas meeting the criteria specified by 192.903 and require the source(s) of information selected to be documented? (IM.HC.HCASITES.P) (detail)*

192.903 (192.905(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. IM High Consequence Areas - Identified Sites (confirm) *Do records indicate identification of identified sites being performed as required? (IM.HC.HCASITES.R) (confirm)*

192.947(d) (192.903; 192.905(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. IM High Consequence Areas - Identification Method 1 (Class Locations) (detail) *Is the integrity management process adequate for application of 192.903 High Consequence Area definition (1) for identification of HCAs? (IM.HC.HCAMETHOD1.P) (detail)*

192.903(1)(i) (192.903(1)(ii); 192.903(1)(iii); 192.903(1)(iv))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. IM High Consequence Areas - Identification Method 1 (Class Locations) (detail) *Do records demonstrate that application of the 192.903 High Consequence Area definition (1) for the identification of HCAs was adequate? (IM.HC.HCAMETHOD1.R) (detail)*

192.947(d) (192.903 (1)(i); 192.903(1)(ii); 192.903(1)(iii); 192.903(1)(iv))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

9. IM High Consequence Areas - Identification Method 2 (Potential Impact Radius) (detail) *Is the integrity management process adequate for application of 192.903 High Consequence Area definition (2) for identification of HCAs? (IM.HC.HCAMETHOD2.P) (detail)*

192.903(2)(i) (192.903(2)(ii))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

10. IM High Consequence Areas - Identification Method 2 (Potential Impact Radius)

(detail) Do records demonstrate that the application of 192.903 High Consequence Area definition (2) for identification of HCAs was adequate? (IM.HC.HCAMETHOD2.R) (detail)

192.947(d) (192.905(a); 192.903(2)(ii))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

11. IM High Consequence Areas - Newly Identified HCAs (detail)

Does the process include a requirement for evaluation of newly identified areas that may show that a pipeline segment impacts a high consequence area? (IM.HC.HCANEW.P) (detail)

192.905(c)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

12. IM High Consequence Areas - Newly Identified HCAs (confirm)

Do records demonstrate that evaluations of newly identified areas that may show that a pipeline segment impacts a high consequence area are being performed as required? (IM.HC.HCANEW.R) (confirm)

192.947(d) (192.905(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Integrity Management - Preventive and Mitigative Measures

1. P&M Measures - General Requirements (detail)

Does the process include requirements to identify additional measures to prevent a pipeline failure and to mitigate the consequences of a pipeline failure in a high consequence area? (IM.PM.PMMGENERAL.P) (detail)

192.935(a)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

2. P&M Measures - General Requirements (confirm) *Do records demonstrate that additional measures have been identified and implemented (or scheduled) beyond those already required by Part 192 to prevent a pipeline failure and to mitigate the consequences of a pipeline failure in an HCA? (IM.PM.PMMGENERAL.R) (confirm)*

192.947(d) (192.935(a))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

3. P&M Measures - Third Party Damage (detail) *Does the preventive and mitigative measure process include requirements that threats due to third party damage be addressed? (IM.PM.PMTPD.P) (detail)*

192.917(e)(1) (192.935(b)(1); 192.935(e))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

4. P&M Measures - Third Party Damage (confirm) *Do records demonstrate that preventive & mitigative measures have been implemented regarding threats due to third party damage as required by the process? (IM.PM.PMTPD.R) (confirm)*

192.947(d) (192.917(e)(1); 192.935(b)(1); 192.935(e))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. P&M Measures - Third Party Damage (Special Cases) (detail) *Does the process include requirements for preventive and mitigative requirements for pipelines operating below 30% SMYS? (IM.PM.PMTPD.SMYS.P) (detail)*

192.935(d) (192.935(e); 192 Table E.II.1)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. P&M Measures - Third Party Damage (Special Cases) (detail) *Do records demonstrate that preventive and mitigative requirements for pipelines operating below 30% SMYS are being performed as required? (IM.PM.PMTPD.SMYS.R) (detail)*

192.947(d) (192.935(d); 192.935(e); 192 Table E.II.1)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

9. P&M Measures - Outside Force Damage (detail) *Does the process adequately address significant threats due to outside force (e.g., earth movement, floods, unstable suspension bridge)?* (IM.PM.PMMOF.P) (detail)

192.935(b)(2)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

10. P&M Measures - Outside Force Damage (detail) *Do records demonstrate that significant threats due to outside force (e.g., earth movement, floods, unstable suspension bridge) are being adequately addressed?* (IM.PM.PMMOF.R) (detail)

192.947(d) (192.935(b)(2))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

11. P&M Measures - Corrosion (detail) *Does the process adequately account for taking required actions to address significant corrosion threats?* (IM.PM.PMMCORR.P) (detail)

192.917(e)(5)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

12. P&M Measures - Corrosion (detail) *Do records demonstrate that required actions are being taken to address significant corrosion threats as required?* (IM.PM.PMMCORR.R) (detail)

192.947(b) (192.917(e)(5))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

13. P&M Measures - Automatic Shut-Off Valves or Remote Control Valves (detail) *Does the process include requirements to decide if automatic shut-off valves or remote control valves represent an efficient means of adding protection to potentially affected high consequence areas?* (IM.PM.PMMASORCV.P) (detail)

192.935(c)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

14. P&M Measures - Automatic Shut-Off Valves or Remote Control Valves (detail) *Do records demonstrate that the operator has determined, based on risk, whether automatic shut-off valves or remote control valves should be added to protect high consequence areas? (IM.PM.PMMASORCV.R) (detail)*

192.947(d) (192.935(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Integrity Management - Quality Assurance

1. Quality Assurance (detail) *Are quality assurance processes in place for risk management applications that meet the requirements of ASME B31.8S-2004, Section 12? (IM.QA.QARM.P) (detail)*

192.911(l)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

2. Quality Assurance (detail) *Do records demonstrate that the quality assurance process for risk management applications is being completed as required by ASME B31.8S, Section 12? (IM.QA.QARM.R) (detail)*

192.947(d) (192.911(l))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

3. Personnel Qualification and Training Requirements (detail) *Does the process include requirements to assure personnel involved in the integrity management program are qualified for their assigned responsibilities? (IM.QA.IMPERSONNEL.P) (detail)*

192.915(a) (192.915(b); 192.915(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

4. Personnel Qualification and Training Requirements (detail) *Do records demonstrate that personnel involved in the integrity management program are qualified for their assigned responsibilities? (IM.QA.IMPERSONNEL.R) (detail)*

192.947(e) (192.915(a); 192.915(b); 192.915(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. Invoking Non-Mandatory Statements in Standards (confirm) *Does the process include requirements that non-mandatory requirements (e.g., "should" statements) from industry standards or other documents invoked by Subpart O (e.g., ASME B31.8S-2004 and NACE SP0502-2008) be addressed by an appropriate approach? (IM.QA.IMNONMANDT.P) (confirm)*

192.7(a)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

6. Management of Change (detail) *Is the process for management of changes that may impact pipeline integrity adequate? (IM.QA.IMMOC.P) (detail)*

192.911(k) (192.909(a); 192.909(b))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

7. Management of Change (confirm) *Do records demonstrate that changes that may impact pipeline integrity are being managed as required? (IM.QA.IMMOC.R) (confirm)*

192.947(d) (192.909(a); 192.909(b); 192.911(k))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. Measuring Program Effectiveness (detail) *Does the process for measuring IM program effectiveness include the elements necessary to conduct a meaningful evaluation? (IM.QA.IMPERFEFFECTIVE.P) (detail)*

192.945(a) (192.913(b); 192.951)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

9. Performance Metrics (detail) *Does the process to evaluate IM program effectiveness include an adequate set of performance metrics to provide meaningful insight into IM program performance?* (IM.QA.IMPERFMETRIC.P) (detail)

192.945(a) (192.913(b); 192.951)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

10. Measuring Program Effectiveness (detail) *Do records demonstrate that the methods to measure Integrity Management Program effectiveness provide effective evaluation of program performance and result in program improvements where necessary?* (IM.QA.IMPERFEFFECTIVE.R) (detail)

192.947(d) (192.913(b); 192.945(a); 192.951)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

11. Performance Metrics (detail) *Do records demonstrate that performance metrics are providing meaningful insight into integrity management program performance?* (IM.QA.IMPERFMETRIC.R) (detail)

192.947(d) (192.913(b); 192.945(a); 192.951)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

12. Record Keeping (detail) *Is the process adequate to assure that required records are maintained for the useful life of the pipeline?* (IM.QA.RECORDS.P) (detail)

192.947(a) (192.947(b); 192.947(c); 192.947(d); 192.947(e); 192.947(f); 192.947(g); 192.947(h); 192.947(i); 192.911(n))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

13. Record Keeping (detail) *Are required records being maintained for the useful life of the pipeline?* (IM.QA.RECORDS.R) (detail)

192.947(a) (192.947(b); 192.947(c); 192.947(d); 192.947(e); 192.947(f); 192.947(g); 192.947(h); 192.947(i))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

Integrity Management - Risk Analysis

1. Threat Identification (detail) *Does the process include requirements to identify and evaluate all potential threats to each covered pipeline segment? (IM.RA.THREATID.P) (detail)*

192.917(a) (192.917(e); 192.913(b)(1))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

2. Threat Identification (confirm) *Do records demonstrate that all potential threats to each covered pipeline segment have been identified and evaluated? (IM.RA.THREATID.R) (confirm)*

192.947(b) (192.917(a); 192.917(e); 192.913(b)(1))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

3. Data Gathering (detail) *Does the process include requirements to gather and integrate existing data and information on the entire pipeline that could be relevant to covered segments? (IM.RA.RADATA.P) (detail)*

192.917(b) (192.917(e)(1); 192.911(k))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

4. Data Gathering (detail) *Do records demonstrate that existing data and information on the entire pipeline that could be relevant to covered segments being adequately gathered and integrated? (IM.RA.RADATA.R) (detail)*

192.947(b) (192.917(b); 192.917(e)(1); 192.911(k))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

5. Risk Analysis - Methodology (detail) *Does the process include requirements for a risk assessment that follows ASME B31.8S-2004, Section 5, and that considers the identified threats for each covered segment? (IM.RA.RAMETHOD.P) (detail)*

192.917(c) (192.917(d))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

PHMSA Integrity Management Question Set (IA Equivalent)
GAS TRANSMISSION INTEGRITY MANAGEMENT INSPECTION PROTOCOLS

7. Risk Analysis - Determination of Risk (detail) *Does the process include requirements that factors that could affect the likelihood of a release, and factors that could affect the consequences of potential releases, be accounted for and combined in an appropriate manner to produce a risk value for each pipeline segment? (IM.RA.RAFACTORS.P) (detail)*

192.917(c)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

8. Risk Analysis - Determination of Risk (detail) *Do records demonstrate that risk analysis data is combined in an appropriate manner to produce a risk value for each pipeline segment? (IM.RA.RAFACTORS.R) (detail)*

192.947(b) (192.917(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

9. Risk Analysis - Validation and Updates (detail) *Does the process provide for revisions to the risk assessment if new information is obtained or conditions change on the pipeline segments? (IM.RA.RAMOC.P) (detail)*

192.917(c)

Sat+	Sat	Concern	Unsat	NA	NC

Notes

10. Risk Analysis - Validation and Updates (confirm) *Was the risk assessment revised as necessary as new information is obtained or conditions change on the pipeline segments? (IM.RA.RAMOC.R) (confirm)*

192.947(b) (192.917(c))

Sat+	Sat	Concern	Unsat	NA	NC

Notes

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