**GT.2025.01 - GT.2025.01**

**Assessment and Repair - Repair Criteria (O&M)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Alternative Maximum Allowable Operating Pressure per 192.620 (80% SMYS Rule)?** If the pipeline operates using an alternative maximum allowable operating pressure per 192.620 (80% SMYS Rule), from a review of selected records, were required repairs performed? (AR.RCOM.RCAMAOP.R) 192.620(d) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Repair Criteria in Type B and C Gas Gathering Pipelines** Do maintenance procedures include adequate criteria for determining the need for, and timeliness of, pipeline repairs in gas gathering pipelines? (AR.RCOM.GGREMEDIATION.P) 192.485(a) (192.9(d)(2);192.9(e)(1)(ii);192.453;192.485(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Assessment and Repair - Confirmatory Direct Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. CDA** Do records demonstrate that required actions are being taken to address significant corrosion threats identified by CDA as required? (AR.CDA.CDACORR.R) 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - External Corrosion Direct Assessment (ECDA)**

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**Assessment and Repair - Internal Corrosion Direct Assessment (ICDA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Identification of Locations for Indirect Inspection** Do records demonstrate that sites where internal corrosion may be present were properly identified? (AR.IC.ICDAINDIRECT.R) 192.947(g) (192.927(c)(2);192.927(c)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Identification of Locations for Excavation and Direct Examination** Do records demonstrate the operator performed detailed examinations of locations identified during the Indirect Inspection? (AR.IC.ICDADIRECT.R) 192.947(g) (192.927(c)(3);192.927(c)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Post-Assessment Evaluation and Monitoring** Do records demonstrate that the operator assessed the effectiveness of the ICDA process? (AR.IC.ICDAPOSTASSESS.R) 192.947(g) (192.927(c)(4)(i);192.927(c)(4)(ii);192.927(c)(4)(iii)(A);192.477) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Quality of ICDA Data Analysis** Do records demonstrate that sufficient data was used to complete the ICDA analysis to identify the internal corrosion threats to the pipeline? (AR.IC.ICDAANALYSIS.R) 192.947(g) (192.927(c);192.933(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. AMAOP ICDA** If the pipeline is operated using an alternative maximum allowable operating pressure per 192.620 (80% SMYS Rule) were required ICDA assessments performed? (AR.IC.ICDAMAOP.R) 192.947(g) (192.620(d)(9);192.620(d)(10);192.927) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. P&M Measures (Internal Corrosion)** Do records demonstrate that required actions are being taken to address significant internal corrosion threats as required? (AR.IC.ICCORR.R) 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Qualification of Operator/Vendor Personnel Who Evaluate ICDA Results** Do records demonstrate that operator/vendor personnel, including supervisors, who conduct ICDA assessments or review and analyze assessment results, are qualified for the tasks they perform? (AR.IC.ICDAREVQUAL.R) 192.947(g) (192.915(a);192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Qualification of Operator/Vendor Personnel Who Evaluate ICDA Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.IC.ICDAREVQUAL.O) 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - Stress Corrosion Cracking Direct Assessment (SCCDA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. SCCDA Preassessment Plan** Does the SCCDA plan include requirements for preassessment? (AR.SCC.SCCDAPLANPRE.P) 192.929(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. SCCDA Mitigate** Is an adequate plan developed for remediating and mitigating SCC once discovered? (AR.SCC.SCCDAMITIG.P) 192.929(b)(4) (NACE SP0204, Section 5.5.1, 6.1.2 and 6.2.1;ASME B31.8S, Appendix A4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Alternative Maximum Allowable Operating Pressure per 192.620 (80% SMYS Rule)?** If the pipeline operates using an alternative maximum allowable operating pressure per 192.620 (80% SMYS Rule), from a review of selected records, were required SCCDA assessments performed? (AR.SCC.SCCDAAMAOP.R) 192.620(d) (192.620(d)(9);192.620(d)(10)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. SCC** Do records demonstrate that required actions are being taken to address significant corrosion threats as required following SCCDA? (AR.SCC.SCCCORR.R) 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Qualification of Operator Personnel Who Evaluate SCCDA Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate SCCDA assessment results meet appropriate training, experience, and qualification criteria? (AR.SCC.SCCDAREVQUAL.P) 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Qualification of Operator Personnel Who Evaluate SCCDA Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.SCC.SCCDAREVQUAL.O) 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - In-Line Inspection (Smart Pigs)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Operator/Vendor Personnel (including Supervisors) Who Evaluate ILI Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate ILI assessment results meet appropriate training, experience, and qualification criteria? (AR.IL.ILIREVIEWQUAL.P) 192.915(a) (192.915(b);192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Qualification of Operator/Vendor Personnel (including Supervisors) Who Evaluate ILI Results** Do records demonstrate that personnel who conduct assessments or review assessment results are qualified per the process requirements? (AR.IL.ILIREVIEWQUAL.R) 192.947(g) (192.915(a);192.915(b);192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Alternative Maximum Allowable Operating Pressure per 192.620 (80% SMYS Rule)?** For pipelines operating under AMAOP, do processes implement the ILI requirements of 192.620(d)(9) and (10) for the entire segment? (AR.IL.ILIAMAOP.P) 192.620(d) (192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. In-Line Inspection** Do records demonstrate that required actions are being taken to address significant corrosion threats identified during in-line inspections? (AR.IL.ILCORR.R) 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - Low Stress Reassessment**

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**Assessment and Repair - Integrity Assessment Via Pressure Test**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Operator/Vendor Personnel Who Evaluate Pressure Test Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate pressure test assessment results meet appropriate training, experience, and qualification criteria? (AR.PTI.PRESSTESTREVQUAL.P) 192.915(a) (192.915(b);192.921(a)(4)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Alternative Maximum Allowable Operating Pressure per 192.620 (80% SMYS Rule)?** If the pipeline operates using an alternative maximum allowable operating pressure per 192.620 (80% SMYS Rule), from a review of selected records, were required pressure test assessments performed? (AR.PTI.PRESSTESTAMAOP.R) 192.517(a) (192.505(a);192.517(b);192.620(c)(4);192.620(d)(9);192.620(d)(10)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Assessment and Repair - Other Technology**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Other Technology - Corrosion** Does the process adequately account for taking required actions to address significant corrosion threats identified using Other Technology? (AR.OT.OTCORR.P) 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Other Technology - Corrosion** Do records demonstrate that required actions are being taken to address significant corrosion threats as required following the use of Other Technology? (AR.OT.OTCORR.R) 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - Predicted Failure Pressure**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Anomaly Analysis - Corrosion Metal Loss** Do the procedures for evaluating corrosion metal loss anomalies or defects, ensure that a determination of the predicted failure pressure and the remaining life of the pipeline segment is established at the location of each anomaly or defect? (AR.PFP.ANOMALYMETALLOSS.P) 192.605 (192.607;192.712(a);192.917(b);192.933(d);192.485;192.712(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Anomaly Analysis - Crack Survives Press Test** Do procedures call for the calculation of the largest potential crack defect sizes when analyzing potential cracks that could have survived a pressure test, specifically in the absence of any in-line inspection data in accordance with §192.712(d)(3)? (AR.PFP.ANOMALYCRACKSURVIVEPT.P) 192.712(d)(3) (192.607;192.712(a);192.712(d)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Anomaly Analysis - Records** Do the records capture all investigations, analyses and other actions taken to support the analysis of predicted failure pressure in accordance with §192.712(g)? (AR.PFP.ANOMALYRECORDS.R) 192.712(g) (192.712(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - Repair Criteria (HCA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. General Requirements** Do the repair procedures detail what actions must be taken to address integrity issues? (AR.RCHCA.GENERAL.P) 192.907(a) (192.933(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Temporary Pressure Reduction** Do the repair procedures require a temporary pressure reduction for making repairs in covered segments? (AR.RCHCA.PRESSUREREDUC.P) 192.907(a) (192.933(a)(1);192.933(a)(2);192.933(d)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Repair Procedures (Weld Patch)** Do the repair procedures prohibit the operator from using welded patches? (AR.RCHCA.CRITERIAWELD.P) 192.605(b)(1) (192.711(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Assessment and Repair - Repair Criteria (Non-HCA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Monitored Conditions** Do the repair procedures require the operator to record and monitor conditions that meet monitoring criteria in non covered segments? (AR.RCNONHCA.MONITOR.P) 192.605 (192.714(d)(3);192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Monitored Conditions** Do records demonstrate that all defects were properly categorized? (AR.RCNONHCA.MONITOR.R) 192.714(d)(3) (192.712;192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Temporary Pressure Reduction** Do the repair procedures require a temporary pressure reduction for making repairs in non-covered segments? (AR.RCNONHCA.PRESSUREREDUC.P) 192.605 (192.714(e);192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Temporary Pressure Reduction** Do records demonstrate that a temporary pressure reduction was taken immediately or when a repair schedule could not be met? (AR.RCNONHCA.PRESSUREREDUC.R) 192.714(e) (192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Other Conditions** Do the repair procedures require the operator to take appropriate remedial action for other conditions that could affect safe operations in non-covered segments? (AR.RCNONHCA.OTHER.P) 192.605 (192.714(f);192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Other Conditions** Do the records show that the operator took appropriate remedial action for other conditions that could affect safe operations in non-covered segments? (AR.RCNONHCA.OTHER.R) 192.714(f) (192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Crack Defects** Do the repair procedures require the operator to perform direct examinations of known locations of cracks or crack-like defects? (AR.RCNONHCA.CRACK.P) 192.605 (192.714(g);192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Crack Defects** Do the records show that the operator performed direct examinations of known locations of cracks or crack-like defects? (AR.RCNONHCA.CRACK.R) 192.714(g) (192.714(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Field Inspection - Remedial Actions** Is anomaly remediation adequate for the non-covered segments being observed? (AR.RCNONHCA.REMEDIATION.O) 192.714 | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - Repair Methods and Practices**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Safety While Making Repairs** Does the process ensure that repairs are made in a safe manner and are made so as to prevent damage to persons and property? (AR.RMP.SAFETY.P) 192.605(b)(9) (192.713(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Safety While Making Repair** Are repairs made in a safe manner and to prevent damage to persons and property? (AR.RMP.SAFETY.O) 192.605(b)(9) (192.713(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Prevention of Accidental Ignition** Do records indicate adequate steps were taken by the operator to prevent accidental ignition prior to performing work? (AR.RMP.IGNITION.R) 192.751(a) (192.751(b);192.751(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Prevention of Accidental Ignition** Perform observations of selected locations to verify that adequate steps have been taken by the operator to minimize the potential for accidental ignition. (AR.RMP.IGNITION.O) 192.751(a) (192.751(b);192.751(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Tapping Pipelines Under Pressure** Is the process adequate for tapping pipelines under pressure? (AR.RMP.HOTTAP.P) 192.605(b)(1) (192.627) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Transmission Lines General Requirements for Repair Procedures** Does the repair process capture the requirements of 192.711 for transmission lines? (AR.RMP.REPAIRREQT.P) 192.605(b)(1) (192.711(a);192.711(b);192.711(c);192.717(b)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Repair Records Pipe Condition** Do repair records document all information needed to understand the conditions of the pipe and its environment and provide the information needed to support the Integrity Management Risk Model? (AR.RMP.PIPECONDITION.R) 192.709(a) (192.709(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Transmission Lines Permanent Field Repair of Leaks** Is there an adequate process for the permanent field repair of leaks on transmission lines? (AR.RMP.FIELDREPAIRLEAK.P) 192.605(b) (192.717(a);192.717(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Transmission Lines Testing of Repairs** From the review of records, did the operator properly test replacement pipe and repairs made by welding on transmission lines? (AR.RMP.WELDTEST.R) 192.719(a) (192.719(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **25. Transmission Lines Testing of Repairs** Does the operator properly test replacement pipe and repairs made by welding on transmission lines? (AR.RMP.WELDTEST.O) 192.719(a) (192.719(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Non-Destructive Testing of Pipeline for Cracking and/or SCC When Exposed for Repair** Does the process require that when a pipeline segment that meets the conditions for cracking and/or possible SCC is exposed (i.e., the coating is removed), an NDE method (e.g., MPI, UT) is employed to evaluate for cracking? (AR.RMP.CRACKNDT.P) 192.929(b) (ASME B31.8S-2004 Appendix A3.4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **27. Non-Destructive Testing of Pipeline for Cracking and/or SCC When Exposed for Repair** From the review of records, when a pipeline segment that meets the conditions of possible cracking and/or SCC is exposed (i.e., the coating is removed), was an NDE method (e.g., MPI, UT) employed to evaluate for cracking and/or SCC? (AR.RMP.CRACKNDT.R) 192.947(g) (192.929(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - Pipeline Assessments for Non-IM Onshore Pipelines**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Initial Assessment Schedule (Outside of HCAs)** Do records demonstrate pipeline segments were initially assessed (and when) per §192.710(b)(1)? (AR.PA.ASSESSSCHED.R) 192.710(b)(1) (192.710(b)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Risk Analysis - Determination of Risk** Do records demonstrate that risk analysis data is combined in an appropriate manner to produce a risk value for each pipeline segment? (AR.PA.RAFACTORS.R) 192.710 | | | | | | | | |  |  |  |  |  |  |  |  | |

**Assessment and Repair - Special Permits**

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**CRM, SCADA, and Leak Detection - CRM General**

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**CRM, SCADA, and Leak Detection - CRM Roles and Responsibilities**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Roles and Responsibilities** Are there clear processes to describe each controller's physical domain of responsibility for pipelines and other facility assets? (CR.CRMRR.RESPONSIBLE.P) 192.631(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Roles and Responsibilities** Do the defined roles and responsibilities require controllers to stay at the console to verify all SCADA commands that have been initiated are fulfilled, and that commands given via verbal communications are acknowledged before leaving the console for any reason? (CR.CRMRR.COMMANDVERIFY.P) 192.631(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Authority to Supersede Controller Action Disallowed - Controllers** Do processes disallow others to have authority to direct or supersede the specific technical actions of a controller? (CR.CRMRR.OTHERAUTHORITYDISALLOW.P) 192.631(b)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Others with Authority Implementation - Controllers** Is the process defined with respect to the details of how those authorized to direct or supersede the technical actions of a controller are to implement their authority? (CR.CRMRR.OTHERAUTHORITYIMPLEMENT.P) 192.631(b)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **25. Others with Authority List - Controllers** Is a list of individuals with authority to direct or supersede the technical actions of a controller readily available to controllers? (CR.CRMRR.OTHERAUTHORITYLIST.R) 192.631(b)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Others with Authority Implementation - Controllers** Do records adequately document occurrences of when others authorized to direct or supersede the technical actions of a controller have done so? (CR.CRMRR.OTHERAUTHORITYIMPLEMENT.R) 192.631(b)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **27. Others with Authority Implementation - Controllers** Do others authorized to direct or supersede the technical actions of a controller demonstrate an understanding of the process to implement this authority? (CR.CRMRR.OTHERAUTHORITYIMPLEMENT.O) 192.631(b)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

**CRM, SCADA, and Leak Detection - Supervisory Control and Data Acquisition**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Adequate Information (API 1165 Compliance)** Do processes clearly define the types of changes to the SCADA system(s) that constitute additions, expansions, or replacements under the meaning of the CRM rule? (CR.SCADA.SYSTEMMOC.P) 192.631(c)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. SCADA Administration** Have applicable paragraphs of section 11 of API RP 1165 (1st Edition) administration been implemented? (CR.SCADA.ADMINISTRATION.R) 192.631(c)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **29. Overpressure Protection Features** Are processes adequate for inspection and test of each pressure relieving device in a compressor station, including periodic operation to determine opening at the correct set pressure? (CR.SCADA.CMPPRESSRELIEFTEST.P) 192.731(a) (192.731(b);192.731(c);192.631(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Overpressure Protection Features** Do inspection and test records for each pressure relieving device in a compressor station indicate it was operated periodically to determine that it opens at the correct set pressure? (CR.SCADA.CMPPRESSRELIEFTEST.R) 192.731(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **32. Overpressure Protection Features** Do records indicate adequate inspection and testing for each pressure relieving device in a pressure limiting station? (CR.SCADA.PRESSRELIEFTEST.R) 192.739(a) (192.631(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**CRM, SCADA, and Leak Detection - Fatigue Management**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Fatigue Mitigation** Does the fatigue mitigation process or procedures (plan) identify operator-specific fatigue risks? (CR.CRMFM.FATIGUEMITIGATION.P) 192.631(d) (192.631(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**CRM, SCADA, and Leak Detection - Alarm Management**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Alarm Procedures** Is the alarm management plan a formal process that specifically identifies critical topical areas included in the program? (CR.CRMAM.ALARM.P) 192.631(e) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Measuring Work Load** Does the CRM program have a means of identifying and measuring the work load (content and volume of general activity) being directed to an individual controller? (CR.CRMAM.WORKLOAD.P) 192.631(e)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Alarm Deficiency Resolution** Is there a process to address how deficiencies found in implementing 192.631(e)(1) through 192.631(e)(5) will be resolved? (CR.CRMAM.DEFICIENCIES.P) 192.631(e)(6) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Alarm Management Deficiencies** Do records indicate deficiencies found in implementing 192.631(e)(1) through 192.631(e)(5) have been resolved? (CR.CRMAM.DEFICIENCIES.R) 192.631(e)(6) | | | | | | | | |  |  |  |  |  |  |  |  | |

**CRM, SCADA, and Leak Detection - Change Management**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Field Equipment Changes** Is there a process to assure changes in field equipment that could affect control room operations are coordinated with the control room personnel? (CR.CRMCMGT.EQUIPMENTCHANGES.P) 192.631(f)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Controller Participation in System Changes** Are control room representative(s) required to participate in meetings where changes that could directly or indirectly affect the hydraulic performance or configuration of the pipeline (including routine maintenance and repairs) are being considered, designed and implemented? (CR.CRMCMGT.CONTROLLERPARTICIPATE.P) 192.631(f)(1) (192.631(f)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Controller Participation in System Changes** Do records indicate that control room representative(s) participate in meetings where changes that could directly or indirectly affect the hydraulic performance or configuration of the pipeline (including routine maintenance and repairs) are being considered, designed and implemented? (CR.CRMCMGT.CONTROLLERPARTICIPATE.R) 192.631(f)(1) (192.631(f)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Emergency Contact with Control Room** Is there a process requiring field personnel and SCADA support personnel to contact the control room when emergency conditions exist? (CR.CRMCMGT.EMERGENCYCONTACT.P) 192.631(f)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Coordination of Field Changes** Does the process require field personnel and SCADA support personnel to contact the control room when making field changes (e.g., operating a valve, O&M inspections/calibrations, RTU/PLC modifications) that affect control room operations? (CR.CRMCMGT.FIELDCONTACT.P) 192.631(f)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Coordination of Field Changes** Do records indicate field personnel and SCADA support personnel contacted the control room when making field changes (e.g., operating a valve, O&M inspections/calibrations, RTU/PLC modifications) that affect control room operations? (CR.CRMCMGT.FIELDCHANGES.R) 192.631(f)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

**CRM, SCADA, and Leak Detection - Operating Experience**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Lessons Learned** Does the program require training on lessons learned from a broad range of events (reportable incidents/accidents, near misses, leaks, operational and maintenance errors, etc.), even though the control room may not have been at fault? (CR.CRMEXP.LESSONSLEARNED.P) 192.631(g)(2) (192.631(b)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Lessons Learned** Has operating experience review training been conducted on lessons learned from a broad range of events (reportable incidents/accidents, near misses, leaks, operational and maintenance errors, etc.)? (CR.CRMEXP.LESSONSLEARNED.R) 192.631(g)(2) (192.631(b)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**CRM, SCADA, and Leak Detection - Training**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Controller Training Program** Has a controller training program been established to provide training for each controller to carry out their roles and responsibilities? (CR.CRMTRAIN.CONTROLLERTRAIN.P) 192.631(h) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Controller Training Program** Has a controller training program been implemented to provide training for each controller to carry out their roles and responsibilities? (CR.CRMTRAIN.CONTROLLERTRAIN.R) 192.631(h) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Training Program Review** Have processes been implemented to review the controller training program content to identify potential improvements at least once each calendar year, but at intervals not to exceed 15 months? (CR.CRMTRAIN.TRAININGREVIEW.R) 192.631(h) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Content of Training Program** Does training content address all required material, including training each controller to carry out the roles and responsibilities that were defined by the operator? (CR.CRMTRAIN.TRAININGCONTENT.R) 192.631(h) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. List of AOCs for Training** Has training been conducted on the abnormal operating conditions that are likely to occur simultaneously or in sequence identified by the operator? (CR.CRMTRAIN.AOCLIST.R) 192.631(h)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Controller Training and Qualification** Does the training program provide controller training on recognizing and responding to abnormal operating conditions that are likely to occur simultaneously or in sequence? (CR.CRMTRAIN.TRAININGABNORMAL.P) 192.631(h)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Communication Training** Does the CRM program train controllers on their responsibilities for communication under the operator's emergency response procedures? (CR.CRMTRAIN.COMMUNICATIONTRAINING.P) 192.631(h)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Working Knowledge of Pipeline System** Does the training program provide controllers a working knowledge of the pipeline system, especially during the development of abnormal operating conditions? (CR.CRMTRAIN.SYSKNOWLEDGE.P) 192.631(h)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. List of Infrequently Used Pipeline Setups** Has a list of pipeline operating setups that are periodically (but infrequently) used been established? (CR.CRMTRAIN.INFREQOPSLIST.R) 192.631(h)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Review of Procedures Prior to Use** Do processes specify that, for pipeline operating set-ups that are periodically (but infrequently) used, the controllers must be provided an opportunity to review relevant procedures in advance of their use? (CR.CRMTRAIN.INFREQOPSREVIEW.P) 192.631(h)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Control Room Team Training - Identified Individuals** Do records demonstrate that individuals identified as of January 23, 2018 received team training by January 23, 2019? (CR.CRMTRAIN.TEAMTRAINIDENTINDIVIDUAL.R) 192.631(h)(6) | | | | | | | | |  |  |  |  |  |  |  |  | |

**CRM, SCADA, and Leak Detection - Compliance Validation and Deviations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Submittal of Procedures** Are there adequate processes to assure that the operator is responsive to requests from applicable agencies to submit their CRM procedures? (CR.CRMCOMP.SUBMITPROCEDURES.P) 192.631(i) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Record of Procedure Submittals** Has the operator been responsive to requests from applicable agencies to submit their CRM procedures? (CR.CRMCOMP.SUBMITPROCEDURES.R) 192.631(i) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. CRM Coordinator** Is there an individual that is responsible and accountable for compliance with requests from PHMSA or other applicable agencies? (CR.CRMCOMP.CRMCOORDINATOR.P) 192.631(i) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**CRM, SCADA, and Leak Detection - Leak Detection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Facility Leak Detection** Does the process require continuing surveillance of facilities to determine and take appropriate action concerning failures/leakage history? (CR.LD.FACILITY.P) 192.605(b)(1) (192.613(a);192.631(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Facility Leak Detection** Do records indicate continuing surveillance of facilities to determine and take appropriate action concerning failures/leakage history? (CR.LD.FACILITY.R) 192.605(b)(1) (192.613(a);192.631(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Design and Construction - Compressor Station Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Compressor Stations - Storage of Combustible Materials** Does the process require that flammable/combustible materials are stored as required, and aboveground oil or gasoline storage tanks, are installed at compressor stations according to 192.735(b)? (FS.CS.CMPCOMBUSTIBLE.P) 192.303 (192.735(a);192.735(b);NFPA 30 (2012))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Corrosion Control - Inspect Coating Before Lowering Pipe** Do written specifications stipulate that each external protective coating must be inspected just prior to lowering the pipe into the ditch and backfilling, and any damage detrimental to effective corrosion control must be repaired? (DC.CCPROT.COATLOWER.P) 192.143(b) (192.461(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Corrosion Control - Inspect Coating Before Lowering Pipe** Do the field observations confirm that each pipe segment with external protective coating was inspected just prior to lowering into the ditch and backfilling, and any damage detrimental to effective corrosion control was repaired? (DC.CCPROT.COATLOWER.O) 192.143(b) (192.461(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **28. Installation of Pipe in a Ditch - GOM & Inlets** Do records indicate that certain pipe in the Gulf of Mexico and its inlets was installed to the burial depths required by 192.319(c)? (DC.CO.INSTALLGOM.R) 192.303 (192.319(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Underground Clearance** Do records indicate that transmission lines or mains are installed with clearances specified in 192.325, and (if plastic) installed as to prevent heat damage to the pipe? (DC.CO.CLEARANCE.R) 192.325(a) (192.325(b);192.325(c);192.325(d))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Construction Weld Inspection**

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**Design and Construction - Construction Welding Procedures**

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**Design and Construction - Design of Pipe**

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**Design and Construction - Design of Compressor Stations**

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**Design and Construction - Design of Pipe - Overpressure Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Launcher and Receiver Safety** Do the procedures require all launchers and receivers to have adequate safety devices in accordance with 192.750 and to ensure the safety devices are working properly just prior to each use? (MO.GM.TRAPSAFETY.P) 192.750 (192.605(b);192.801;192.805)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Design of Pipe Components**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Passage of Internal Inspection Devices** Are certain transmission pipeline components designed and constructed to accommodate the passage of instrumented internal inspection devices? (DC.DPC.ILIPASS.O) 192.150 (192.150(a);192.150(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **28. Supports and Anchors** Do records indicate piping and associated equipment have sufficient anchors or supports to prevent undue strain on connected equipment, to resist longitudinal forces, and to prevent or dampen excessive vibration in accordance with §192.161? (DC.DPC.SUPPORT.R) 192.161(a) (192.161(b);192.161(c);192.161(d);192.161(e);192.161(f);192.205) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **29. Supports and Anchors** Do field observations confirm each length of pipe and each component is being visually inspected for sufficient installation of anchors or supports to prevent undue strain on connected equipment, to resist longitudinal forces, to prevent or dampen excessive vibration, and is in accordance with §192.161? (DC.DPC.SUPPORT.O) 192.141 (192.161(a);192.161(b);192.161(c);192.161(d);192.161(e);192.161(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Transmission Line Valve Spacing** Does the process require transmission line valve spacing to be accordance with §192.179(a)? (DC.DPC.VALVESPACE.P) 192.143 (192.179(a);192.179(a)(1);192.179(a)(2);192.179(a)(3);192.179(a)(4);192.179(b);192.179(c);192.179(d);192.179(e);192.179(f);192.179(g);192.179(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **36. Instrument, Control, and Sampling Pipe and Components** As applicable to the project, does the process require that instrument, control, and sampling pipe and components are to be designed in accordance with 192.203? (DC.DPC.INSTRUMENTPIPE.P) 192.143(a) (192.143(b);192.203(a);192.203(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **37. Instrument, Control, and Sampling Pipe and Components** As applicable to the project, do field observations confirm that instrument, control, and sampling pipe and components are installed as designed and in accordance with 192.203? (DC.DPC.INSTRUMENTPIPE.O) 192.141 (192.203(a);192.203(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Corrosion Control and Cathodic Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **31. External Corrosion Control - Electrical Isolation of Casings** Do operator’s written specifications stipulate that each pipeline must be electrically isolated from metallic casings that are a part of the underground system? (DC.CCPROT.ELECTRICALISOL.P) 192.467(c) (192.143(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **34. External Corrosion Control - Electrical Isolation from Underground Metallic Structures** Do written specifications stipulate that each buried or submerged pipeline must be electrically isolated from other underground metallic structures? (DC.CCPROT.ELECTRISOLSTRUCT.P) 192.143(b) (192.467(a);192.467(b);192.467(d);192.467(e);192.467(f);NACE RP0169;NACE SP0200-2008) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Gathering**

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**Design and Construction - Maintenance and Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Start-Stop Procedures** Do records indicate that the pressure limitations on the pipeline are not exceeded? (DC.MO.MAOPLIMIT.R) 192.605(b)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Procedure Manual for Operations, Maintenance, and Emergencies** Does the process require that procedures for operations, abnormal operations, maintenance, and emergencies be completed and implemented prior to the pipeline going into service? (DC.MO.OMPROCEDURES.P) 192.605(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Plastic Pipe - Storage and Handling of Pipe and Components** Do field observations confirm plastic materials are stored and handled to ensure compliance with operator procedures? (DC.PLASTIC.PLASTICHANDLING.O) 192.69 (192.59;192.63(e);192.65;192.67)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Design and Construction - Materials**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Railroad Transportation of Certain Pipe** Does the operator have records showing that railroad transportation for certain pipe (see considerations) was in accordance with 192.65(a) and API RP 5L1(7th Edition)? (DC.MA.RAILTRANSPORT.R) 192.65(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Truck Transportation of Certain Pipe** Does the operator have specifications requiring that truck transportation for certain pipe (see considerations) is in accordance with 192.65(c) and API RP 5LT(1st Edition)? (DC.MA.TRUCKTRANSPORT.P) 192.65(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Truck Transportation of Certain Pipe** Does the operator have records showing that truck transportation for certain pipe (see considerations) is in accordance with 192.65(c) and API RP 5LT(1st Edition)? (DC.MA.TRUCKTRANSPORT.R) 192.65(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Pressure Testing**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Hydrostatic Testing - General Requirements** Does the process require pressure testing to be conducted for new segments of pipeline, or return to service segments of pipeline that are being relocated or replaced? (DC.PT.PRESSTEST.P) 192.605(b) (192.303;192.503(a);192.503(b);192.503(c);192.503(d);192.503(e))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Hydrostatic Testing - Strength Test (High) - 30% or more SMYS** Do records indicate that the sections of a pipeline operating at a hoop stress equal to or greater than 30% of SMYS were strength tested in accordance with the requirements of 192.505? (DC.PT.PRESSTESTHIGHSTRESS.R) 192.505(a) (192.143(a);192.517(a);192.505(b);192.505(c);192.505(d);192.143(b);192.143(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Hydrostatic Testing - Strength Test (High) - 30% or more SMYS** Do field observations confirm that sections of a pipeline operating at a hoop stress equal to or greater than 30% of SMYS are strength tested in accordance with the requirements of 192.505? (DC.PT.PRESSTESTHIGHSTRESS.O) 192.505(a) (192.143(a);192.505(b);192.505(c);192.505(d);192.143(b);192.143(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Spike Hydrotest**

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**Design and Construction - Pressure Testing - Low Pressure**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Hydrostatic Testing - General Requirements** Does the process require pressure testing to be conducted for new segments of pipeline, or return to service segments of pipeline that are being relocated or replaced? (DC.PT.PRESSTEST.P) 192.605(b) (192.303;192.503(a);192.503(b);192.503(c);192.503(d);192.503(e))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Hydrostatic Testing - General Requirements** Is pressure testing conducted in accordance with 192.503? (DC.PT.PRESSTEST.O) 192.503(a) (192.503(b);192.503(c);192.503(d);192.503(e))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Special Permits**

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**Design and Construction - Training and Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Qualification of Personnel Who Oversee and Perform Excavations and Backfilling Operations** Do selected individuals who oversee marking, trenching and backfilling operations demonstrate adequate skills and knowledge? (DC.TQ.EXCAVATE.O) 192.805(b) (ADB-2006-01) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Conversion to Service (192.14)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Notification to PHMSA** Do records indicate operator provided required notifications to PHMSA not later than 60 days before the conversion began as required by §191.22(c)? (DC.CONV.NOTIFICATION.R) 191.22(c)(1) (192.14(c);191.17(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Physical Inspection for Defects** Do the records indicate the aboveground segments of the pipeline was were visually inspected for physical defects and operating conditions which could be expected to impair the strength of the pipeline, as required by §192.14(a)(2)? (DC.CONV.PHYSICALDEFECTS.R) 192.14(a)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Unsafe Defects and Conditions** Does the conversion procedure include requirement to identify and correct all known unsafe defects and conditions as required by §192.14(a)(3)? (DC.CONV.UNSAFEDEFECTS.P) 192.14(a)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Unsafe Defects and Conditions** Do the records indicate operator corrected (or has plans to correct) all known unsafe defects and conditions as required by §192.14(a)(3) and conducted in accordance with Part 192? (DC.CONV.UNSAFEDEFECTS.R) 192.14(a)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Commissioning Converted Pipeline** Do records indicate operator followed its written Commissioning Plan to ensure a safe startup of the converted pipeline under Part 192? (DC.CONV.COMMISSIONING.R) 192.603(b) (192.603(a);192.605) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Design and Construction - Plastic Pipe Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **45. Maintenance of Equipment Used in Joining Plastic Pipe** Is proper maintenance being performed on equipment used in joining plastic pipe in accordance with the manufacturer's recommended practices or with written procedures that have been proven by test and experience to produce acceptable joints? (MO.GM.EQUIPPLASTICJOINT.O) 192.756  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **49. Qualification of Personnel Making Joints in Plastic Pipelines** Do personnel making/inspecting joints in plastic pipelines demonstrate adequate skills and knowledge? (TQ.QUOMCONST.PLASTIC.O) 192.285(a) (192.287;192.803)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Design and Construction - Vaults**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Vaults Sealing, Venting, and Ventilation** As applicable to the project, are vaults/pits sealed, ventilated, or vented as required of 192.187? (DC.VAULTS.VAULTSEAL.O) 192.141 (192.187(a);192.187(b);192.187(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Vaults Drainage and Waterproofing** As applicable to the project, are vaults installed to minimize water entrance, and have proper electrical equipment? (DC.VAULTS.VAULTWATER.O) 192.141 (192.189(a);192.189(b);192.189(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Emergency Preparedness and Response - Emergency Response**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Incident Investigation Data** Does the process include the steps necessary for the gathering of data needed for reporting incidents under Part 191 of this chapter in a timely and effective manner? (EP.ERG.INCIDENTDATA.P) 192.605(b)(4) (191.5(a);192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Receiving Notices** Do records indicate receiving, identifying, classifying and communication of notices of events requiring immediate response in accordance with procedures? (EP.ERG.NOTICES.R) 192.615(a)(1) (192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Emergency Response Communication** Does the emergency plan include procedures for establishing and maintaining adequate means of communication with appropriate fire, police, and other public officials? (EP.ERG.COMMSYS.P) 192.615(a) (192.615(a)(2);192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Emergency Response** Does the emergency plan include procedures for making a prompt and effective response to a notice of each type of emergency, including gas detected inside or near a building, a fire or explosion near or directly involving a pipeline facility, operational failure (including Cyber-attacks), or a natural disaster? (EP.ERG.RESPONSE.P) 192.615(a) (192.615(a)(3);192.615(a)(11);192.615(b)(1);192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Emergency Response Readiness** Are personnel, equipment, tools, and materials needed at the scene of an emergency available as required by the procedures? (EP.ERG.READINESS.O) 192.615(a)(4) (192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Public Official Notification** Does the emergency plan include procedures for notifying appropriate public safety answering point (911) of gas pipeline emergencies and coordinating with them both planned responses and actual responses during an emergency? (EP.ERG.AUTHORITIES.P) 192.615(a) (192.615(a)(8);192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Emergency Response - Designated Persons Notify 911** Do records indicate that immediate and direct notification was made to 911 emergency call centers (or local emergency responder agency) for the communities and jurisdictions in which pipelines were located for situations when an emergency or possible rupture of a pipeline was indicated? (EP.ERG.NOTIFY911.R) 192.615(a) (192.615(a)(8);192.9(d);192.9(e);NTSB P-11-9) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Emergency Response Performance** Do records indicate review of employee activities to determine whether the procedures were effectively followed in each emergency? (EP.ERG.POSTEVNTREVIEW.R) 192.605(a) (192.615(b)(1);192.615(b)(3);192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Liaison with Public Officials** Does the process include steps for establishing and maintaining liaison with appropriate fire, police, other public officials, and 911 emergency call centers? (EP.ERG.LIAISON.P) 192.615(a)(2) (192.615(c)(1);192.615(c)(2);192.615(c)(3);192.615(c)(4);192.616(c);192.9(e);ADB-2005-03) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Liaison with Public Officials** Do records indicate that liaison has been established and maintained with appropriate fire, police, other public officials, and 911 emergency call centers? (EP.ERG.LIAISON.R) 192.603(b) (192.615(c)(1);192.615(c)(2);192.615(c)(3);192.615(c)(4);192.616(c);192.9(e);ADB-2005-03)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Notification of Potential Rupture** Does the operator have procedures to identify and notify operator personnel of a potential rupture? (EP.ERG.NOTIFPOTRUPTURE.P) 192.635 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Valve Shut-off Capabilities** Do the records demonstrate RMVs or AETs were shut-off in accordance with §192.636(b) following identification of a release? (EP.ERG.VALVESHUTOFF.R) 192.605(b) (192.636(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **25. Notification of Potential Rupture - Records** Do the records indicate the operator properly identified and notified operator's personnel of a potential rupture? (EP.ERG.NOTIFPOTRUPTURE.R) 192.635 | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Emergency Preparedness and Response - Failure & Incident Investigation**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Incident Investigation & Analysis** Does the operator’s processes include steps for analyzing pipeline incidents to determine their causes? (EP.FII.INCIDENTANALYSIS.P) 192.617(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Incident Summary** For incidents that involve an RMV, does the operator’s procedures require an incident summary? (EP.FII.INCIDENTSUMMARY.P) 192.617(a) (192.617(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Incident Investigation & Analysis Records** Do records indicate pipeline incidents were analyzed to determine their causes? (EP.FII.INCIDENTANALYSIS.R) 192.617(d) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Facilities and Storage - Compressor Station System Protection**

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**Facilities and Storage - Compressor Stations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Compressor Stations - Storage of Combustible Materials** Do field observations demonstrate that flammable/combustible materials are safely stored as required, and aboveground oil or gasoline storage tanks are installed at compressor stations according to §192.735(b)? (FS.CS.CMPCOMBUSTIBLE.O) 192.735(a) (192.735(b);NFPA 30 (2012))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Facilities and Storage - Facilities General**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Vault Maintenance** Are inspections of selected vaults with internal volume ≥ 200 cubic feet housing pressure regulating/limiting equipment adequate? (FS.FG.VAULTINSPECT.O) 192.749(a) (192.749(b);192.749(c);192.749(d))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Facilities and Storage - Gas Storage Field (Aboveground)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Storage Field Valve Replacement** Have any valves been replaced over the past 5 years? (FS.GS.VALVEREPLACE.R) 192.709(b) (192.745(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Facilities and Storage - Valves**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Valve Maintenance** Do records adequately document that compressor transmission line valves have been inspected and partially operated at the correct interval? (FS.VA.CMPVLVTEST.R) 192.709(c) (192.745(a);192.745(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Valve Maintenance** Are transmission line valves maintained as required? (FS.VA.CMPVLVMAINT.O) 192.745(a) (192.745(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Integrity Management - High Consequence Areas**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IM High Consequence Areas - HCA Identification** Does the process include the methods defined in 192.903 High Consequence Area (Method 1) and/or 192.903 High Consequence Area (Method 2) to be applied to each pipeline for the identification of high consequence areas? (IM.HC.HCAID.P) 192.905(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. IM High Consequence Areas - HCA Identification** Do records demonstrate that the identification of pipeline segments in high consequence areas was completed in accordance with process requirements? (IM.HC.HCAID.R) 192.947(d) (192.905(a);192.907(a);192.911(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. IM High Consequence Areas - Identification Method 1 (Class Locations)** Is the integrity management process adequate for identification of 192.903 High Consequence Areas using Method (1) for identification of HCAs? (IM.HC.HCAMETHOD1.P) 192.903(1)(i) (192.903(1)(ii);192.903(1)(iii);192.903(1)(iv)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. IM High Consequence Areas - Potential Impact Radius** 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) 192.903 (192.905(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. IM High Consequence Areas - Identified Sites** 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) 192.903 (192.905(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. IM High Consequence Areas - Identified Sites** Do records indicate identification of identified sites being performed as required? (IM.HC.HCASITES.R) 192.947(d) (192.903;192.905(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. IM High Consequence Areas - Identification Method 1 (Class Locations)** Do records demonstrate that identification of 192.903 High Consequence Areas using Method (1) was adequate? (IM.HC.HCAMETHOD1.R) 192.947(d) (192.903(1)(i);192.903(1)(ii);192.903(1)(iii);192.903(1)(iv)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. IM High Consequence Areas - Identification Method 2 (Potential Impact Radius)** Do records demonstrate that the identification of 192.903 High Consequence Areas using Method (2) was adequate? (IM.HC.HCAMETHOD2.R) 192.947(d) (192.905(a);192.903(2)(ii)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Integrity Management - Risk Analysis**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Threat Identification** Do records demonstrate that all potential threats to each covered pipeline segment have been identified and evaluated? (IM.RA.THREATID.R) 192.947(b) (192.917(a);192.917(e);192.913(b)(1);192.632) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Integrity Management - Baseline Assessments**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. IM Assessments - Environmental & Safety Risks** From field observations, are integrity assessments conducted in a manner that minimizes environmental and safety risks? (IM.BA.BAENVIRON.O) 192.911(o) (192.919(e);192.750) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Integrity Management - Continual Evaluation and Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Low Stress Reassessments** 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) 192.941(a) (192.941(b);192.941(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Periodic Evaluations** 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) 192.947(d) (192.917(a);192.917(b);192.917(c);192.917(d);192.917(e);192.937(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Integrity Management - Preventive and Mitigative Measures**

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**Integrity Management - Quality Assurance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Personnel Qualification and Training Requirements** Do records demonstrate that personnel involved in the integrity management program are qualified for their assigned responsibilities? (IM.QA.IMPERSONNEL.R) 192.947(e) (192.915(a);192.915(b);192.915(c);192.493;192.710(d);192 Appendix F, Sect. XIII, XIV) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Record Keeping** Is the process adequate to assure that required records are maintained for the useful life of the pipeline? (IM.QA.RECORDS.P) 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);192.517(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Performance Metrics** Do records demonstrate that performance metrics are providing meaningful insight into integrity management program performance? (IM.QA.IMPERFMETRIC.R) 192.947(d) (192.913(b);192.945(a);192.951) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Record Keeping** Are required records being maintained for the life of the pipeline? (IM.QA.RECORDS.R) 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);192.517(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - Conversion to Service**

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**Maintenance and Operations - Gas Pipeline Abnormal Operations**

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**Maintenance and Operations - Gas Pipeline Class Location**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Change in Class Location Required Study** Does the process include a requirement that the operator conduct a study whenever an increase in population density indicates a change in the class location of a pipeline segment operating at a hoop stress that is more than 40% SMYS, or indicates that the hoop stress corresponding to the established maximum allowable operating pressure for a segment of existing pipeline is not commensurate with the present class location? (MO.GOCLASS.CLASSLOCATESTUDY.P) 192.605(b)(1) (192.609(a);192.609(b);192.609(c);192.609(d);192.609(e);192.609(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Change in Class Location Confirmation or Revision of MAOP** Does the process include a requirement that the MAOP of a pipeline segment be confirmed or revised within 24 months whenever the hoop stress corresponding to the established MAOP is determined not to be commensurate with the existing class location? (MO.GOCLASS.CLASSLOCATEREV.P) 192.605(b)(1) (192.609;192.611(a);192.611(b);192.611(c);192.611(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Change in Class Location Confirmation or Revision of MAOP** Do field observations verify that current population density and operator-determined class locations are consistent? (MO.GOCLASS.CLASSLOCATEREV.O) 192.611(a) (192.609) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Continuing Surveillance** Are unsatisfactory conditions being captured and addressed by continuing surveillance of facilities and the pipeline as required by 192.613? (MO.GO.CONTSURVEILLANCE.O) 192.613(a) (192.613(b);192.703(a);192.703(b);192.703(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - Gas Pipeline MAOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Maximum Allowable Operating Pressure Determination** Does the process include requirements for determining the maximum allowable operating pressure for a pipeline segment in accordance with §192.619? (MO.GOMAOP.MAOPDETERMINE.P) 192.605(b)(1) (192.619(a);192.619(b);192.619(c);192.619(f);192.8(b);192.8(c)(4);192.9(d);192.9(e)(2);192.9(f)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Normal Operations within MAOP Limits** Does the process include requirements for starting up and shutting down any part of the pipeline in a manner to assure operation with the MAOP limits, plus the build-up allowed for operation of pressure-limiting and control devices? (MO.GOMAOP.MAOPLIMIT.P) 192.605(a) (192.605(b)(5);192.8(b);192.8(c)(4);192.9(d);192.9(e)(2);192.9(f)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Gas Pipeline Maintenance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Abandonment or Deactivation of Pipe and Facilities** Does the process include adequate requirements for the abandonment and deactivation of pipelines and facilities? (MO.GM.ABANDONPIPE.P) 192.605(b)(1) (192.727(a);192.727(b);192.727(c);192.727(d);192.727(e);192.727(f);192.727(g))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Abandonment or Deactivation of Pipeline and Facilities** Do records indicate pipelines and facilities were abandoned or deactivated in accordance with requirements? (MO.GM.ABANDONPIPE.R) 192.709(c) (192.727(a);192.727(b);192.727(c);192.727(d);192.727(e);192.727(f);192.727(g))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Transmission Lines Record Keeping** Do records indicate that records are maintained of each pipe/"other than pipe" repair, NDT required record, and (as required by subparts L or M) patrol, survey, inspection or test? (MO.GM.RECORDS.R) 192.605(b)(1) (192.243(f);192.709(a);192.709(b);192.709(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Prevention of Accidental Ignition** Do records indicate personnel followed processes for minimizing the danger of accidental ignition where the presence of gas constituted a hazard of fire or explosion? (MO.GM.IGNITION.R) 192.709 (192.751(a);192.751(b);192.751(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Prevention of Accidental Ignition** Are the operator’s precautionary measures adequate on a gas transmission line where there exists the potential for accidental ignition? (MO.GM.IGNITION.O) 192.751(a) (192.751(b);192.751(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Valve Maintenance Transmission Lines** Do records indicate proper inspection and partial operation of transmission line valves that may be required during an emergency as required and prompt remedial actions taken if necessary? (MO.GM.VALVEINSPECT.R) 192.709(c) (192.745(a);192.745(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Launcher and Receiver Safety** Do field observations confirm selected launchers and receivers have safety devices installed and whether the safety devices were inspected prior to each use? (MO.GM.TRAPSAFETY.O) 192.750 (192.605(b);192.801;192.805)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Vault Inspection** What are process requirements for inspecting vaults having a volumetric internal content ≥200 cubic feet (5.66 cubic meters) that house pressure regulating/limiting equipment? (FS.FG.VAULTINSPECT.P) 192.605(b)(1) (192.749(a);192.749(b);192.749(c);192.749(d))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Holders** Do records indicate systematic and routine testing and inspection of pipe-type or bottle-type holders? (MO.GM.HOLDER.R) 192.603(b) (192.605(b)(10)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Maintenance of Equipment Used in Joining Plastic Pipe** Does the process require maintaining equipment used in joining plastic pipe in accordance with the manufacturer's recommended practices or with written procedures that have been proven by test and experience to produce acceptable joints? (MO.GM.EQUIPPLASTICJOINT.P) 192.605(b) (192.756)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Maintenance of Equipment Used in Joining Plastic Pipe** Is proper maintenance being performed on equipment used in joining plastic pipe in accordance with the manufacturer's recommended practices or with written procedures that have been proven by test and experience to produce acceptable joints? (MO.GM.EQUIPPLASTICJOINT.O) 192.756  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Gas Pipeline Odorization**

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**Maintenance and Operations - Gas Pipeline Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Continuing Surveillance** Are there processes for performing continuing surveillance of pipeline facilities, and also for reconditioning, phasing out, or reducing the MAOP in a pipeline segment that is determined to be in unsatisfactory condition but on which no immediate hazard exists? (MO.GO.CONTSURVEILLANCE.P) 192.605(e) (192.613(a);192.613(b);192.703(b);192.703(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Normal Operations and Maintenance Procedures - History** Are construction records, maps and operating history available to appropriate operating personnel? (MO.GO.OMHISTORY.O) 192.605(b)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Uprating** Do records indicate the pressure uprating process was implemented per the requirements of 192.553? (MO.GO.UPRATE.R) 192.553(b) (192.553(a);192.553(c);192.553(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Outer Continental Shelf** Are specific point(s) at which operating responsibility transfers to a producing operator identified, as applicable? (MO.GO.OCS.O) 192.10 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **28. Class Change Valve Spacing Requirements** Do records indicate the installation of RMVs or AETs occurred whenever pipe replacements occurred due to a class location change? (MO.GO.CLASSCHNGVALVSPACE.R) 192.709(c) (192.610) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **29. Class Change Valve Spacing Requirements** Do field observations verify RMVs or AETs were installed whenever pipe replacements occurred due to a class location change? (MO.GO.CLASSCHNGVALVSPACE.O) 192.709(c) (192.610) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **31. Management of Change** Do records demonstrate that changes that may impact pipeline integrity are being managed as required? (MO.GO.MOC.R) 192.13 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **32. Management of Change** Is the process for management of changes that may impact pipeline integrity adequate? (IM.QA.IMMOC.P) 192.911(k) (192.13(d);192.909(a);192.909(b))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - Gas Pipeline Overpressure Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Transmission Lines Record Keeping** Does the process include a requirement that the operator maintain a record of each pipe/"other than pipe" repair, NDT required record, and (as required by subparts L or M) patrol, survey, inspection or test? (MO.GM.RECORDS.P) 192.605(b)(1) (192.709(a);192.709(b);192.709(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Transmission Lines Record Keeping** Do records indicate that records are maintained of each pipe/"other than pipe" repair, NDT required record, and (as required by subparts L or M) patrol, survey, inspection or test? (MO.GM.RECORDS.R) 192.605(b)(1) (192.243(f);192.709(a);192.709(b);192.709(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Pressure Limiting and Regulating Stations Capacity of Relief Devices** Does the process include procedures for ensuring that the capacity of each pressure relief device at pressure limiting stations and pressure regulating stations is sufficient? (MO.GMOPP.PRESSREGCAP.P) 192.605(b)(1) (192.743(a);192.743(b);192.743(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - ROW Markers, Patrols, Leakage Survey and Monitoring**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Leak Survey (<30% SMYS Gas Transmission)** For pipelines operating below 30% SMYS in a Class 3 or 4 locations, but not in an HCA, do records indicate performance of leak surveys? (MO.RW.LEAKAGE30SMYS.R) 192.935(d) (192.935(b)(1)(i);192.935(b)(1)(iii)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Moderate Consequence Areas (MCA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. MCA Definition** Is the operator's MCA definition consistent with the §192.3 Definition? (MO.MCA.MCADEF.P) 192.624(a)(2) (192.710(a)(2);192.3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. MCA Identification - Roadways** Do records demonstrate the operator properly identified and applied “covered” roadways that could be affected by the PIR, and therefore considered a “pipeline with an MCA”? (MO.MCA.MCAIDENTIFROAD.R) 192.3 (192.624;192.712) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Verification of Materials Properties**

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**Maintenance and Operations - MAOP Reconfirmation**

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**Maintenance and Operations - MAOP Reconfirmation - Method 1**

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**Maintenance and Operations - MAOP Reconfirmation - Method 2**

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**Maintenance and Operations - MAOP Reconfirmation - Method 3 (ECA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. ECA to Determine Remaining Defects Using ILI** When the operator elects to use ECA for MAOP reconfirmation (per §192.624(c)(3)), do the records indicate the ECA Analysis was conducted in accordance with §192.632(c) for selecting appropriate ILI tools? (MO.RECONFM3.ECAREMAINDEFECTSILI.R) 192.632(c) (192.624(c);192.712) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. ECA Defects - Pipeline Remaining Life** When the operator elects to use ECA for MAOP reconfirmation (per §192.624(c)(3)), do the records indicate the ECA Analysis was performed in accordance with §192.632(d) for estimating remaining life of the pipeline? (MO.RECONFM3.ECAREMAINPIPELINELIFE.R) 192.632(d) (192.624(c);192.712) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - MAOP Reconfirmation - Method 5**

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**Maintenance and Operations - MAOP Reconfirmation - Method 6**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. MAOP Reconfirmation - Method 6 (Alt. Technology)** Where the operator has elected Method 6 for the MAOP reconfirmation, do the procedures for the alternative technical evaluation process meet the requirements of §192.624(c)(6)? (MO.RECONFM6.METHOD6.P) 192.624(c)(6) (192.18;192 Subpart J;192.619(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Alternative MAOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Alternate MAOP Additional O&M** Does the AMAOP process include additional O&M requirements? (MO.AMAOP.ADDITIONALOM.P) 192.605(a) (192.620(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Public Awareness and Damage Prevention - Damage Prevention**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Damage Prevention Program** Is a damage prevention program approved and in place? (PD.DP.PDPROGRAM.P) 192.614(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Participation in Qualified One Call Systems** Observe operator process a "One Call" ticket. (PD.DP.ONECALL.O) 192.614(c)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. DP Information Gathering Requirements** Do records demonstrate that critical damage prevention information is being gathered and recorded during pipeline patrols, leakage surveys, and integrity assessments? (PD.DP.DPINFOGATHER.R) 192.947(b) (192.917(b);192.935(b)(1)(ii)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Public Awareness and Damage Prevention - Public Awareness**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Asset Identification** Does the program clearly identify the specific pipeline systems and facilities to be included in the program, along with the unique attributes and characteristics of each? (PD.PA.ASSETS.P) 192.616(b) (API RP 1162 Section 2.7 Step 4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Audience Identification** Does the program establish methods to identify the individual stakeholders in the four affected stakeholder audience groups: (1) affected public, (2) emergency officials, (3) local public officials, and (4) excavators, as well as affected municipalities, school districts, businesses, and residents? (PD.PA.AUDIENCEID.P) 192.616(d) (192.616(e);192.616(f);API RP 1162 (1st Edition) Section 2.2;API RP 1162 (1st Edition) Section 3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Audience Identification** Do records identify the individual stakeholders in the four affected stakeholder audience groups: (1) affected public, (2) emergency officials, (3) local public officials, and (4) excavators, as well as affected municipalities, school districts, businesses, and residents to which it sends public awareness materials and messages? (PD.PA.AUDIENCEID.R) 192.616(d) (192.616(e);192.616(f);API RP 1162 (1st Edition)Section 2.2;API RP 1162 (1st Edition)Section 3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Educational Provisions** Do records indicate delivered messages specifically included provisions to educate the public, emergency officials, local public officials, and excavators on the categories defined in §192.616(d)? (PD.PA.EDUCATE.R) 192.616(d) (192.616(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Public Awareness and Damage Prevention - ROW Markers, Patrols, Monitoring**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Continuing Surveillance** Do records indicate performance of continuing surveillance of facilities as required, and also the reconditioning, phasing out, or MAOP reduction in any pipeline segment that was determined to be in unsatisfactory condition but on which no immediate hazard existed? (MO.GO.CONTSURVEILLANCE.R) 192.709(c) (192.613(a);192.613(b);192.703(b);192.703(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Public Awareness and Damage Prevention - Special Permits**

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**Reporting - Notices and Reporting**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. OQ Program Modifications** Does the OQ Program require the Administrator or state agency to be notified if the operator significantly modifies its program? (RPT.NR.NOTIFYOQ.P) 192.805(i) (192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. IM Management of Change** Is the process for notifying PHMSA and/or state/local authorities of significant changes to the Integrity Management Program adequate? (RPT.NR.NOTIFYIMCHANGE.P) 192.909(b) (192.921(a)(7);192.937(c)(7);192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. IM Management of Change** Do records demonstrate that PHMSA and/or state/local authorities were notified of substantial or significant changes to the Integrity Management Program? (RPT.NR.NOTIFYIMCHANGE.R) 192.947(i) (192.909(b);192.921(a)(7);192.937(c)(7)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Reporting - Regulatory Reporting (Traditional)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Annual Report Records** Have complete and accurate Annual Reports utilizing the most recent form F 7 100.2-1 been submitted? (RPT.RR.ANNUALREPORT.R) 191.17(a) (191.1(a);192.8(c)(3);192.8(c)(4);192.8) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Reporting - Special Permits**

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**Screening - General Screening Questions**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Safety Related Condition Reports (SRCRs)** Have there been any Safety Related Conditions (SRCs) or Maximum Allowable Operating Pressure Exceedances for this pipeline in the last 5 years? (Provide details) (SRN.GENERAL.SRCR.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Implementing Advisory Bulletins (ADBs)** Has the guidance of ADBs (Advisory Bulletins) been implemented in relevant program areas? (SRN.GENERAL.ADB.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Grandfathered Facilities** Are there any facilities or components grandfathered under various code requirements? (Provide details) (SRN.GENERAL.GRANDFATHER.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Exclusion Groups** Confirmation of asset "Exclusions" (See Considerations). (SRN.GENERAL.EXCLUSIONS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Tribal Lands** Does the pipeline cross tribal lands? (SRN.GENERAL.TRIBALLANDS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Repair Criteria (O&M)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Repair Criteria (O&M)** Are repair criteria in non-covered segments different than in covered segments? (provide details) (SRN.AR-RCOM.REPAIROM.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Confirmatory Direct Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Confirmatory Direct Assessment** Has the operator utilized CDA on this pipeline system? (If Yes, provide details.) (SRN.AR-CDA.CDA.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - External Corrosion Direct Assessment (ECDA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. External Corrosion Direct Assessment (ECDA)** Has the operator utilized ECDA on this pipeline system? (SRN.AR-EC.ECDA.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Internal Corrosion Direct Assessment (ICDA)**

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**Screening - AR - In-Line Inspection (Smart Pigs)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Integrity Assessments** Describe integrity issues or new threats discovered by the most recent integrity assessments. (SRN.AR-IL.INTEGASSMNTS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Integrity Assessment Method - ILI** What process was used to select the ILI assessment tool(s)? (SRN.AR-IL.ILIUSE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Low Stress Reassessment**

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**Screening - AR - Other Technology**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Other Technology** What, if any, Other Technology(ies) have been used to assess the integrity of the pipeline in the last 7 years? (provide details) (SRN.AR-OT.OT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Pipeline Assessments for Non-IM Onshore Pipelines**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Pipeline Assessments for Non-IM Onshore Pipelines** What is the status of your program to assess transmission lines outside of an HCA? (SRN.AR-PA.ASSESSNONHCA.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Integrity Assessment Via Pressure Test**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Integrity Assessment Via Pressure Test** Where pressure testing was utilized to assess the integrity of the pipeline, what was the extent and nature of any pipeline failures? (provide details) (SRN.AR-PTI.PRESSTEST.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Repair Criteria (HCA)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Repair Criteria (HCA)** Has the nature and/or severity of required repairs found during the most recent assessment changed significantly as compared to the previous assessments? (Provide details) (SRN.AR-RC.REPCRIT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Pipe Movement or Replacement Projects** Have any pipeline movement or replacement projects been performed in the last 5 years? If so, identify the projects and locations. (SRN.DC-CO.MOVEREPLACE.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Repair Methods and Practices**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Repair Methods and Practices** Have repairs to the pipeline been made in the past 5 years due to Integrity Management assessments? (SRN.AR-RMP.METHODS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Stress Corrosion Cracking**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Indications of Stress Corrosion Cracking** What indications or instances of Stress Corrosion Cracking (SCC) have been identified and remediated in the last 5 years, and what is the resulting SCC program? (provide details) (SRN.AR-SCC.SCC.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - CR - CRM General**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Control Center Location** What is the assignment of the pipeline and its facilities to one or more control rooms (including their locations)? (SRN.CR-CRMGEN.CONTROLCNTR.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - CRM Roles and Responsibilities**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Controllers** Have there been any revisions or changes to the CRM roles and responsibilities or staffing levels as a result of any AOCs or emergencies? (Provide details) (SRN.CR-CRMRR.CONTROLLERS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Supervisory Control and Data Acquisition**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. SCADA System** How many SCADA Systems and/or other remote/field automation units are utilized for the pipeline? (Provide details) (SRN.CR-SCADA.SCADASYSTEMS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Fatigue Management**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Fatigue Management** What type of shift schedule does the operator utilize and has it changed in the past five years? (SRN.CR-CRMFM.FATIGMGMT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Alarm Management**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Control Room Alarms and Logging Process** What changes have been made to the alarm management process of receiving and logging/recording system events, alarms, and commands in the last 5 years? (Provide details) (SRN.CR-CRMAM.ALARMS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Change Management**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Change Management** How are changes to pipeline equipment or configuration coordinated between the control room and associated field personnel? (SRN.CR-CRMCMGT.CHANGE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Operating Experience**

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**Screening - CR - CRM Training**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Controller Training** What controller training program updates or improvements were made in the last 5 years? (SRN.CR-CRMTRAIN.CNTRLRTRAIN.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Compliance Validation and Deviations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Compliance Validation and Deviations** What deviations from the control room procedures have occurred in the last 5 years? (provide details) (SRN.CR-CRMCOMP.COMPLVALID.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Leak Detection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Leak Detection System - Method** If a computational pipeline monitoring (CPM) leak detection system (LDS) is not used, then how are leaks detected? (Describe the LDS system in place) (SRN.CR-LD.LEAKDETMETHOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Compressor Station Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Compressor Station Construction** What compressor station construction activities are scheduled to occur within the next 6 months? (provide details) (SRN.DC-COCMP.CMPSTA.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Design of Compressor Stations**

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**Screening - DC - Design of Pipe - Overpressure Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Design of Pipe - Overpressure Protection** What is the process for establishing and documenting each pressure limiting device and overpressure safety device on the pipeline system? (SRN.DC-DPCOPP.PRESSPROT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Pressure Testing - Low Pressure**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Pressure Testing - Low Pressure Pipelines** What pressure tests related to Low Pressure pipelines (below 30% SMYS) construction projects are planned to occur within the next 6 months and have there been any failures in last 5 years on the pipeline or pipeline components? (provide details) (SRN.DC-PTLOWPRESS.PRESSTEST.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Construction Weld Inspection**

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**Screening - DC - Construction Welding Procedures**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Construction Welding Procedures** For any recent or upcoming construction activities, what was/is the process for approving welding procedures? (SRN.DC-WELDPROCEDURE.WELDPROCEDURE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Construction Projects - Pipe and Facilities** Have any new pipeline and/or facilities construction has taken place within the last 5 years, is presently underway, or is planned to occur within the next six months? Next two years? (provide details) (SRN.DC-CO.CONSTRUCTION.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Pipe Movement or Replacement Projects** Have any pipeline movement or replacement projects been performed in the last 5 years? If so, identify the projects and locations. (SRN.DC-CO.MOVEREPLACE.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Design of Pipe**

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**Screening - DC - Design of Pipe Components**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Design of Pipe Components** What is the process for ensuring that pipe components and devices (i.e., fittings, flanges, valves, instrumentation, ancillary fittings/piping, etc.) are designed in accordance with the code and applicable industry standards, and are installed where needed? (SRN.DC-DPC.COMPDESIGN.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Gathering (D&C)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Gathering Design and Construction** What processes have been established for the Design & Construction of gathering pipelines? (SRN.DC-GA.GATHERING.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Materials**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Materials - Qualification, Marking, and Transport** For pipeline projects in the last 5 years, what were the steel pipe (and plastic pipe) qualification, marking, and transportation requirements? (SRN.DC-MA.MATERIALSCONSTR.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Maintenance and Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Maintenance & Operations Construction Related** What parts of the O&M procedures are utilized when conducting the following activities: internal corrosion examination, project related shutdown/start-up, accidental ignition controls, hot tapping, and conducting activities in a safe manner? (SRN.DC-MO.MAINTOM.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Pressure Testing**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Pressure Testing - O&M Construction Projects** What post-project pressure tests for O&M construction projects are planned to occur within the next 6 months on the pipeline or pipeline components? (provide details) (SRN.DC-PT.PRESSURETEST.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - DC - Training and Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. OQ Covered Task List** What are the identified OQ program covered tasks for O&M construction projects? (SRN.DC-TQ.CONSTOQTASK.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Conversion to Service**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Conversion to Service Screening** What is the pipeline system (or segment) for which operator is planning to do a Conversion-to-Service? (SRN.DC-CONV.CONVERSION.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Plastic Pipe Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Plastic Pipe - Handling and Storage of Plastic Pipe and Components** How are the handling and storage of plastic pipe and components conducted? (SRN.DC-PLASTIC.PLASTICHANDLING.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - EP - Emergency Response**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Post-Incident Manual Revisions** What revisions to the Emergency Response procedures have been made in the last 5 years? (SRN.EP-ERG.MANUALMOC.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Release Volumes - Natural Gas** Have any releases occurred in the last five years where the release volume and/or release rate exceeded the operator’s maximum calculated release volume or rate used for emergency preparedness? (SRN.EP-ERG.RELEASEVOL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - EP - Failure & Incident Investigation**

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**Screening - FS - Compressor Stations**

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**Screening - FS - Compressor Station System Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Compressor Station System Protection** What processes are in place for ensuring that compressor station protective and safety devices and emergency shutdowns (ESD) are installed where needed and inspected? (SRN.FS-CSSYSPROT.CMPSTA.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - FS - Facilities General**

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**Screening - FS - Gas Storage**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Gas Storage Fields** What, if any, gas storage fields are operated associated with the pipeline? (Provide details) (SRN.FS-GS.STORAGEFIELD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - FS - Valves (Facilities & Storage)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Facility Valves** What is the process for ensuring that facility valves are installed where needed and maintained for the safe operation of the pipeline different from mainline valves? (SRN.FS-VA.VALVES.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - IM - Baseline Assessments**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IM Baseline Assessments - Prioritized Schedule** Has there been any newly identified HCAs or newly installed pipe in HCAs identified in the last 5 years? (SRN.IM-BA.BAPSCHEDULE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - IM - Continual Evaluation and Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IM Periodic Evaluation Actions** Describe the actions implemented in the last 5 years to address the threats identified and the risk represented by these threats as a result of a periodic evaluation for a specific covered segment. (SRN.IM-CA.PERIODICEVALMOC.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - IM - High Consequence Areas**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IMP - Process and Procedure Changes** Describe the most significant changes to the Integrity Management processes and procedures since the last IMP-focused PHMSA inspection. (SRN.IM-HC.IMPLANMOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Idle & Inactive Pipelines - Current and Returned to Service** For any pipelines or pipeline segments currently identified as "idle," "inactive," or “returned to service,” how are those segments managed in relevant Programs and/or Procedures? (Provide details) (SRN.GENERAL.IDLEPIPE.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - IM - Preventive & Mitigative (P&M) Measures**

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**Screening - IM - Quality Assurance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. IM Management of Change (MOC)** Describe the most significant changes that have been implemented outside of the IMP processes as a result of IMP decisions and moved through the Management of Change (MOC) process in the last 5 years. (SRN.IM-QA.MOC.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - IM - Risk Analysis**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Risk Analysis - ROW Information Management** How is the information gathered (related to potential excavation damage) during pipeline patrols, monitoring, and leakage surveys analyzed and used by the integrity management information / risk analysis? (SRN.IM-RA.INFOMGMT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Alternative MAOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Alternative MAOP** Are any segments of the pipeline operated under the Alternate MAOP limitations (ref. 192.620)? (SRN.MO-AMAOP.AMAOP.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Conversion to Service**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Conversion to Part 192 Service** What pipelines or pipeline segments have undergone a conversion to Part 192 service in the last 5 years? (provide details) (SRN.MO-GC.192CONV.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Gas Pipeline Abnormal Operations**

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**Screening - MO - Gas Pipeline Class Location**

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**Screening - MO - Gas Pipeline MAOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. MAOP Changes** If there have been any changes in the pipeline MAOP or in startup/shutdown procedures to ensure that operations are within MAOP, in the last 5 years, what was the nature of the changes? (SRN.MO-GOMAOP.MAOPCHGS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. MAOP Determination** Does the operator have any pipelines where the MAOP was determined by §192.619(a)(2) or §192.619(c)? (SRN.MO-GOMAOP.MAOPDETERMINATION.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - MAOP Reconfirmation**

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**Screening - MO - Moderate Consequence Areas (MCA)**

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**Screening - MO - Gas Pipeline Maintenance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Gas Pipeline Maintenance** What significant changes have been made to the pipeline maintenance program in the last 5 years? (SRN.MO-GM.GASMTCE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Gas Pipeline Odorization**

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**Screening - MO - Gas Pipeline Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Tracking of "Near Misses"** Are "near misses" tracked, and if so, how are they reviewed and potentially incorporated into revised procedures or revised programs? (SRN.MO-GO.NEARMISS.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. O&M Procedure Manual Modifications** What, if any, changes or improvements have been made to the O&M manuals, processes, or procedures in the last 5 years? (SRN.MO-GO.OMPLANMOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Idle & Inactive Pipelines - Current and Returned to Service** For any pipelines or pipeline segments currently identified as "idle," "inactive," or “returned to service,” how are those segments managed in relevant Programs and/or Procedures? (Provide details) (SRN.GENERAL.IDLEPIPE.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - MO - Gas Pipeline Overpressure Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Segment-Specific MAOP Protection** Are there any segment-specific MAOP protection controls in place? (provide details) (SRN.MO-GMOPP.MAOPSEGPROTECT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - MO - ROW Markers, Patrols, Leakage Survey and Monitoring**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. ROW Markers, Patrols, Leakage Surveys, and Monitoring** What, if any, issues have occurred in the last 5 years regarding pipeline ROW monitoring, marking, leakage surveys, and patrolling? (SRN.MO-RW.ROWISSUES.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - PD - Damage Prevention**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Tracking of "Near Misses"** Are "near misses" tracked, and if so, how are they reviewed and potentially incorporated into revised procedures or revised programs? (SRN.MO-GO.NEARMISS.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Damage Prevention - One-Call Process** How is the effectiveness of the One-Call system response measured, and what issues have been identified in the last 5 years? (SRN.PD-DP.ONECALL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Idle & Inactive Pipelines - Current and Returned to Service** For any pipelines or pipeline segments currently identified as "idle," "inactive," or “returned to service,” how are those segments managed in relevant Programs and/or Procedures? (Provide details) (SRN.GENERAL.IDLEPIPE.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - PD - Public Awareness**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. ROW Markers, Patrols, Leakage Surveys, and Monitoring** What, if any, issues have occurred in the last 5 years regarding pipeline ROW monitoring, marking, leakage surveys, and patrolling? (SRN.MO-RW.ROWISSUES.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Idle & Inactive Pipelines - Current and Returned to Service** For any pipelines or pipeline segments currently identified as "idle," "inactive," or “returned to service,” how are those segments managed in relevant Programs and/or Procedures? (Provide details) (SRN.GENERAL.IDLEPIPE.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TD - External Corrosion - Exposed Pipe**

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**Screening - TD - External Corrosion - CP Monitoring**

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**Screening - TD - Internal Corrosion - Corrosive Gas**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Internal Corrosion - Corrosive Gas** Where corrosive gas is transported, what changes have been made to minimize internal corrosion in the last 5 years? (SRN.TD-ICCG.CORRGAS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TD - Alternative MAOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Alternative MAOP** Are any segments of the pipeline operated under the Alternate MAOP limitations (ref. 192.620)? (SRN.MO-AMAOP.AMAOP.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TD - Atmospheric Corrosion**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. External Corrosion - Atmospheric Corrosion** What, if any, specific corrosion control projects in response to discovering atmospheric external corrosion have been conducted in the last 5 years? (Provide details) (SRN.TD-ATM.ATMCORRODE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TD - External Corrosion - Coatings**

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**Screening - TD - External Corrosion - Cathodic Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. External Corrosion - CP Ineffective** What, if any, portion of the pipeline is not effectively protected from external corrosion by a cathodic protection system? (describe details) (SRN.TD-CP.CP.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. External Corrosion - Cathodic Protection** What, if any, specific projects in response to discovering external corrosion related to cathodic protection have been conducted in the last 5 years? (Provide details) (SRN.TD-CP.EXTCORROSION.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TD - Internal Corrosion - Preventive Measures**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Internal Corrosion - Preventive Measures** What, if any, internal corrosion issues have been discovered in the last 5 years? (provide details) (SRN.TD-ICP.INTCORROSION.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TD - Stress Corrosion Cracking**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Stress Corrosion Cracking** What indications or instances of Stress Corrosion Cracking (SCC) has the pipeline experienced in the last 5 years, and what is the resulting SCC program? (Provide details) (SRN.TD-SCC.SCC.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TQ - Qualification of Personnel - Specific Requirements (IM)**

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**Screening - TQ - Qualification of Personnel - Specific Requirements (O and M Construction)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Personnel - Specific Requirements (O & M Construction)** What significant changes have been made in the last 5 years to the processes regarding the qualifications of individuals involved in welding and joining pipe? (SRN.TQ-QUOMCONST.OMCONSTREQMNTS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TQ - Operator Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. OQ Plan Modifications** What, if any, changes or improvements have been made to the OQ Plan in the last 5 years? (SRN.TQ-OQ.OQPLANMOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. OQ Personnel Count** Have there been changes in the number of personnel (both company and contractor) covered by the OQ Plan in the last 5 years? (SRN.TQ-OQ.OQPERSONNEL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. OQ Removal from Covered Task** Have any OQ-qualified individuals (operator and contractor) been removed from performing a covered task, and what were the circumstances for the removal(s)? (SRN.TQ-OQ.OQREMOVAL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TQ - Qualification of Personnel - Specific Requirements**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Personnel - Specific Requirements** Have there been any changes in the last 5 years to the process to ensure that individuals (operator and contractor) are qualified to perform the following activities? - corrosion control processes, - hot tapping, and - individuals who oversee and perform marking, trenching, and backfilling operations. (SRN.TQ-QU.REQMNTS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TQ - Training of Personnel**

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**Time-Dependent Threats - Alternative MAOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Alternative MAOP - Interference Currents** Do records document that actions taken (prior to operating an existing pipeline segment at an alternate maximum allowable operating pressure, or within six months after placing a new pipeline segment in service at an alternate maximum allowable operating pressure) have been adequate in addressing any interference currents on the pipeline segment? (TD.AMAOP.AMAOPINTFRCURRENT.R) 192.709(c) (192.620(d)(6)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Alternative MAOP - Test Reading** Do records document that for a pipeline segment operating at an alternate maximum allowable operating pressure the following: (a) Completion of remedial action within six months of a failed reading at a test station during annual monitoring, or notification of each responsible pipeline safety party demonstrating that the integrity of the pipeline is not compromised, and (b) After completion of the remedial action to address a failed reading, confirmed restoration of adequate corrosion control by a close interval survey on either side of the affected test station to the next test station? (TD.AMAOP.AMAOPTESTREAD.R) 192.709(c) (192.620(d)(8)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Time-Dependent Threats - Atmospheric Corrosion**

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**Time-Dependent Threats - External Corrosion - CP Monitoring**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **34. Corrosion Control Records** Does the process include records requirements for the corrosion control activities listed in §192.491? (TD.CP.RECORDS.P) 192.605(b)(2) (192.491(a);192.491(b);192.491(c);192.9(f)(1);192.452;192.453)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Time-Dependent Threats - External Corrosion - Cathodic Protection**

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**Time-Dependent Threats - External Corrosion - Coatings**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Conversion to Service - Pipe Coating** Does the process require that each buried or submerged pipeline that has been converted to gas service and was installed after July 31, 1971, be protected against external corrosion with an adequate coating unless exempted by §192.455(b)? (TD.COAT.CONVERTPIPE.P) 192.605(b)(2) (192.452(a);192.455(a);192.455(b);192.455(c);192.455(d);192.461(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Time-Dependent Threats - External Corrosion - Exposed Pipe**

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**Time-Dependent Threats - Internal Corrosion - Corrosive Gas**

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**Time-Dependent Threats - Internal Corrosion - Preventive Measures**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Internal Corrosion in Removed Pipe** Does the process direct personnel to examine removed pipe for evidence of internal corrosion? (TD.ICP.EXAMINE.P) 192.605(b)(2) (192.475(a);192.475(b);192.9(f)(1);192.452;192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Internal Corrosion in Removed Pipe** Do records document examination of removed pipe for evidence of internal corrosion? (TD.ICP.EXAMINE.R) 192.491(c) (192.475(a);192.475(b);192.9(f)(1);192.452;192.453;192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Repair of Internally Corroded Pipe** Does the process give sufficient guidance for personnel to repair or replace pipe that has internally corroded to an extent that there is no longer sufficient remaining strength in the pipe wall? (TD.ICP.REPAIRINT.P) 192.491(c) (192.485(a);192.485(b);192.9(f)(1);192.452;192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Repair of Internally Corroded Pipe** Do records document the repair or replacement of pipe that has been internally corroded to an extent that there is not sufficient remaining strength in the pipe wall? (TD.ICP.REPAIRINT.R) 192.485(a) (192.485(b);192.9(f)(1);192.452;192.453;192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Time-Dependent Threats - Special Permits**

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**Time-Dependent Threats - Stress Corrosion Cracking**

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**Training and Qualification - OQ Protocol 9**

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**Training and Qualification - Operator Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Personnel Performance Monitoring** If the operator had an incident/accident where there is reason to believe that an individual contributed to the cause, do records indicate evaluation of the individual following the occurrence? (TQ.OQ.PERFMONITOR.R) 192.805(d) (192.805(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Operator Qualification Plan and Covered Tasks** Do individuals performing covered tasks demonstrate adequate skills, knowledge, and ability? (TQ.OQ.OQPLAN.O) 192.805(h) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Records of OQ Program Changes** Are records maintained for changes that affect covered tasks and significant OQ plan changes? (TQ.OQ.CHANGERECORD.R) 192.805(i) (192.805(f);192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Training and Qualification - Qualification of Personnel - Specific Requirements**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Corrosion Control Personnel Qualification** Does the process require corrosion control processes to be carried out by, or under the direction of, qualified personnel? (TQ.QU.CORROSION.P) 192.453 (192.805(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Qualification of Personnel who Oversee and Perform Excavations and Backfilling Operations** Do individuals who oversee marking, trenching, and backfilling operations demonstrate adequate skills and knowledge? (TQ.QU.EXCAVATE.O) 192.805(b) (192.805(h);ADB-2006-01;192.801(a);192.328(a);192.328(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Training and Qualification - Qualification of Personnel - Specific Requirements (IM)**

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**Training and Qualification - Qualification of Personnel - Specific Requirements (O and M Construction)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Welding Inspectors** Does the process require welding inspection personnel to be adequately trained and qualified? (TQ.QUOMCONST.INSPECTOR.P) 192.241(a) (192.241(c);192.805(b);192.328(a);192.328(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Qualification of Personnel Making Joints in Plastic Pipelines** Does the process require personnel making joints in plastic pipelines be qualified? (TQ.QUOMCONST.PLASTIC.P) 192.285(a) (192.285(d);192.805(b);192.285(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Qualification of Personnel Making Joints in Plastic Pipelines** Do records indicate adequate qualification of personnel making/inspecting joints in plastic pipelines? (TQ.QUOMCONST.PLASTIC.R) 192.285(a) (192.285(d);192.287;192.807(a);192.807(b);192.285(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Qualification of Personnel Making Joints in Plastic Pipelines** Do personnel making/inspecting joints in plastic pipelines demonstrate adequate skills and knowledge? (TQ.QUOMCONST.PLASTIC.O) 192.285(a) (192.287;192.803)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Training and Qualification - Training of Personnel**

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**Underground Natural Gas Storage - Rule and FAQs**

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**Underground Natural Gas Storage - Reporting**

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**Underground Natural Gas Storage - Reservoirs - Integrity in Reservoir Design**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Geological Characterization - Evaluation** Do records demonstrate that the intended reservoir was evaluated, characterized and mapped for properties intended for gas storage? (UNGS.RESDES.GEOLOGICEVAL.R) 192.12(b)(1) (API RP1171(1st Edition), Section 5.2.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Engineering Characterization - Corrosion Management** Does the process incorporate the corrosive potential of pore fluids, if present, into the design and operation strategies of the storage reservoir ? (UNGS.RESDES.ENGRCHCTR3.P) 192.12(b)(1) (API RP1171(1st Edition), Section 5.3.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Engineering Characterization - Fluids Issues** Does the process require identification and mitigation of potential mineralogical and fluid compatibility issues? (UNGS.RESDES.ENGRCHCTR4.P) 192.12(b)(1) (API RP1171(1st Edition), Section 5.3.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Maximum Reservoir Pressure** Does the process provide a design basis for the maximum pressure of the storage reservoir? (UNGS.RESDES.MAXRESPRESS.P) 192.12(b)(1) (API RP1171(1st Edition), Section 5.4.3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. Maximum Reservoir Pressure** Do records demonstrate that the design basis for the maximum reservoir pressure was documented? (UNGS.RESDES.MAXRESPRESS.R) 192.12(b)(1) (API RP1171(1st Edition), Section 5.4.3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Supplemental Evaluation of Reservoirs Developed within Aquifers** Do records demonstrate that supplemental aquifer reservoir geological and engineering evaluations were performed? (UNGS.RESDES.AQUIFEREVAL01.R) 192.12(b)(1) (API RP1171(1st Edition), Section 5.4.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **34. Supplemental Evaluation of Reservoirs Developed within Aquifers** Do records demonstrate that site specific geophysical delineation was conducted for the aquifer storage? (UNGS.RESDES.AQUIFEREVAL03.R) 192.12(b)(1) (API RP1171,(1st Edition) Section 5.4.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **37. Storage Design Recordkeeping** Does the process require design records to be maintained for the following activities: geologic records; engineering records; land and mineral ownership, rights, and control; facility integrity plan; well drilling, completion, workover and plugging records; regulatory records and permits? (UNGS.RESDES.DESRECORDS.P) 192.12(b)(1) (API RP1171(1st Edition), Section 5.6) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **38. Storage Design Recordkeeping** Do records demonstrate that the required design records have been maintained? (UNGS.RESDES.DESRECORDS.R) 192.12(b)(1) (API RP1171(1st Edition), Section 5.6) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **40. Storage Design Recordkeeping - Life of Facility** Are design records accurate and comprehensive and maintained for the lifetime of the facility? (UNGS.RESDES.DESRECORDSLOF.R) 192.12(b)(1) (API RP1171(1st Edition), Section 5.6) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Underground Natural Gas Storage - Reservoirs - Integrity in Well Design & Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Design of Wellhead Equipment - Isolation Valve** Does the process require that wells be equipped with valves that provide isolation of the well from the pipeline system and for entry into the wellbore? (UNGS.RESWELLDES.WELLHEADISOLVLV.P) 192.12(b)(1) (API RP1171(1st Edition), Section 6.2.2;API RP1171(1st Edition), Section 11.2.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **55. Well Closure (Plugging and Abandonment) Records** Does the process define a retention period for abandonment records? (UNGS.RESWELLDES.CLOSUREREC.P) 192.12(b)(1) (API RP1171(1st Edition), Section 6.7.1;API RP1171(1st Edition), Section 11.2.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Underground Natural Gas Storage - Reservoirs - Integrity Through Initial Pressure & Inventory**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Recordkeeping Retention of Testing and Monitoring Activities** Does the process require that records for natural gas storage testing and monitoring activities be maintained for the life of the facility? (UNGS.RESINITIAL.RECORDSRET.P) 192.12(b)(1) (API RP1171(1st Edition), Section 7.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Underground Natural Gas Storage - Reservoirs - Risk Management for Storage Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Integrity Management Program - Requirements** Are written procedures in place for an Integrity Management Program that meets all of the requirements listed in 192.12(d)(1) and API RP 1171(1st Edition), Section 8? (UNGS.RESRISK.IMPROGRAM.P) 192.12(d)(1) (192.12(d)(4);192.12(b)(2);192.12(b)(1);API RP1171(1st Edition) Section 8) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Integrity Management Program - Requirements** Do records indicate the Integrity Management Program has been fully implemented and documented for all of the requirements listed in 192.12(d)(1) and (d)(4) and API RP 1171(1st Edition), Section 8? (UNGS.RESRISK.IMPROGRAM.R) 192.12(d)(1) (192.12(d)(4);192.12(b)(2);192.12(b)(1);API RP1171(1st Edition) Section 8) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Data Sources and Collection** Do records demonstrate that appropriate data was collected and used to determine susceptibility to threats and hazard-related events? (UNGS.RESRISK.DATASOURCES.R) 192.12(b)(2) (192.12(b)(1);API RP1171(1st Edition) Section 8.3.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Baseline Risk Assessment Timeline/Completion** Does the process require the Integrity Management baseline risk assessments for all reservoirs and wells for each UNGSF to be completed in accordance with the timeframes and prioritization required by 192.12(d)(2)? (UNGS.RESRISK.RISKBASELINE.P) 192.12(d)(2) (192.12(b)(2);192.12(b)(1);API RP1171(1st Edition) Section 8) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Risk Management Effectiveness Reviews** Do records demonstrate how the effectiveness of the risk monitoring and risk management is assessed? (UNGS.RESRISK.RISKMGMTEFFECTIVE.R) 192.12(b)(2) (192.12(b)(1);API RP1171(1st Edition) Section 8.7.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Risk Re-Assessment Review & Update Interval** Does the process require operator to determine the appropriate interval(s) for Integrity Management risk re-assessments for continuous improvement for all reservoirs and wells for each UNGSF in accordance with the requirements in 192.12(d)(3) and RP1171(1st Edition), subsections 8.7.1 and 8.7.2? (UNGS.RESRISK.RISKREASSESSINTRVL.P) 192.12(d)(3) (192.12(b)(2);192.12(b)(1);API RP1171(1st Edition) Section 8.7.1;API RP1171(1st Edition) Section 8.7.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Underground Natural Gas Storage - Reservoirs - Integrity Monitoring**

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**Underground Natural Gas Storage - Reservoirs - Site Security & Safety**

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**Underground Natural Gas Storage - Reservoirs - Procedures & Training**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Operations and Maintenance Procedures** Are there written procedures in place for conducting operations and maintenance (O&M) activities (including drilling and other well entry work) of UNGS facilities, including activities required to establish and maintain functional integrity? (UNGS.RESPROCED.OMPROCED.P) 192.12(c) (192.12(b)(2);192.12(b)(1);API RP1171(1st Edition) Section 11.2.1;API RP1171(1st Edition) Section 11.2.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Underground Natural Gas Storage - Caverns - Geological & Geomechanical Evaluation**

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**Underground Natural Gas Storage - Caverns - Well Design**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **45. Manual Solution Mining Valves** Do records indicate that manual valves were installed on the wellhead? (UNGS.CAVERNWELLDES.MANUALVALVES.R) 192.12(a)(1) (192.12(a)(2);API RP1170(1st Edition), Section 6.4.11) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Underground Natural Gas Storage - Caverns - Drilling**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Cavern Drilling Completion** Do records demonstrate that the wellbore was displaced with clean, fully saturated brine water? (UNGS.CAVERNDRILL.COMPLETION.R) 192.12(a)(1) (192.12(a)(2);API RP1170(1st Edition), Section 7.7) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Underground Natural Gas Storage - Caverns - Solution Mining**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **51. Cavern Enlargement** Do records indicate that the cavern was enlarged based on the criteria outlined in API 1170(1st Edition), Section 8.12? (UNGS.CAVERNMINE.ENLARGEMENT.R) 192.12(a)(1) (192.12(a)(2);API RP1170(1st Edition), Section 8.12) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Underground Natural Gas Storage - Caverns - Risk Management (RP1171, Sect. 8)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Integrity Management Program - Requirements** Are there written procedures in place for an Integrity Management Program that meets all of the requirements listed in 192.12(d)(1) and API RP 1171(1st Edition), Section 8? (UNGS.CAVERNRISK.IMPROGRAM.P) 192.12(d)(1) (192.12(d)(4);192.12(a)(3);192.12(a)(1);192.12(a)(2);API RP1171(1st Edition) Section 8) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Data Sources and Collection** Do records demonstrate that appropriate data was collected and used to determine susceptibility to threats and hazard-related events? (UNGS.CAVERNRISK.DATASOURCES.R) 192.12(a)(3) (192.12(a)(1);192.12(a)(2);API RP1171(1st Edition) Section 8.3.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Underground Natural Gas Storage - Caverns - Gas Storage Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Maximum Storage Operating Pressure** Does the process establish a maximum and minimum storage operating pressure? (UNGS.CAVERNOPS.MAOPLIMIT.P) 192.12(a)(3) (192.12(a)(1);192.12(a)(2);API RP1170(1st Edition), Section 9.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Underground Natural Gas Storage - Caverns - Integrity Monitoring**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Integrity Monitoring Program - Frequency** Do records demonstrate that the frequency of cavern integrity monitoring has been followed in accordance with the Integrity Monitoring Program? (UNGS.CAVERNINTEG.IMPROGFREQ.R) 192.12(a)(3) (192.12(a)(1);192.12(a)(2);API RP1170(1st Edition), Section 10.3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Underground Natural Gas Storage - Caverns - Abandonment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Cavern Abandonment - Long-Term Monitoring Program** Does the long-term monitoring program for abandoned cavern wells follow the criteria of API RP1170(1st Edition), Section 10.3 for integrity monitoring programs? (UNGS.CAVERNABAND.MONITORPROG.P) 192.12(a)(3) (192.12(a)(1);192.12(a)(2);API RP1170(1st Edition), Section 11.8;API RP1170(1st Edition), Section 10.3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Section 114 - Section 114 - Gas Transmission**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Leaks & Releases - Leak Data Collection and Analysis** Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting? (114.114.LKRLSLKDATA.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Leak Mitigation & Repair - Repair Procedures** Do procedures provide alternatives to cutouts (to reduce emissions)? (114.114.LKMITGRPRREPAIR.P) 49 U.S.C. 60108(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Leak-Prone: Leaks & Releases - Leak Data Collection and Analysis** Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting? (114.LEAKPRONE.LKRLSLKDATA.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Leak-Prone: Leaks Mitigation & Repair - Replacement and Remediation (Example Section 114 Materials)** Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues? (114.LEAKPRONE.LKMITGRPREXAMPLE.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Leak-Prone: Leak Mitigation & Repair - Replacement and Remediation (Other Materials)** Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically identified in Section 114? (114.LEAKPRONE.LKMITGRPROTHER.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Section 114 - Section 114 - Underground Natural Gas Storage**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Scoping - Inspection Coverage** What are your assets comprised of? (SRN.114.INSPECTCVRG.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Compressors** Do the maintenance and operations procedures for compressors include provisions to minimize fugitive natural gas losses? (114.114.COMPRESSOR.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Leaks & Releases - Investigation of Unanticipated Vented Releases** Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions? (114.114.LKRLSUNEXPCTVENT.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Leak-Prone: Leaks & Releases** What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone? (114.LEAKPRONE.LKRLS.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Leak-Prone: Leaks Mitigation & Repair - Replacement and Remediation (Example Section 114 Materials)** Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues? (114.LEAKPRONE.LKMITGRPREXAMPLE.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Section 114 - Section 114 - Gas Gathering & Boosting**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Leaks & Releases - Investigation of Unanticipated Vented Releases** Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions? (114.114.LKRLSUNEXPCTVENT.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Testing - Emergency Shutdown Devices** Do procedures contain measures for ensuring ESD testing minimizes natural gas releases? (114.114.TESTESD.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Testing - Relief Valves** Do relief valve testing procedures include measures to minimize natural gas releases? (114.114.TESTRELIEFVLV.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. General - Compressor Station** Do procedures contain mechanisms for minimizing natural gas emissions from operations and maintenance activities within a compressor station (i.e., beyond compressor/driver-specific procedures)? (114.114.GNLCMPSTATION.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Leak-Prone: Leaks & Releases** What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone? (114.LEAKPRONE.LKRLS.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Leak-Prone: Leaks Mitigation & Repair - Replacement and Remediation (Example Section 114 Materials)** Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues? (114.LEAKPRONE.LKMITGRPREXAMPLE.P) 49 U.S.C. 60108(a)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Generic Questions - Generic Questions - Special Permits**

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**Generic Questions - Generic Questions**

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**Generic Questions - NTSB Recommendations Review**

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Except as required to be disclosed by law, any inspection documentation, including completed protocol forms, summary reports, executive summary reports, and enforcement documentation are for internal use only by federal or state pipeline safety regulators. Some inspection documentation may contain information which the operator considers to be confidential. In addition, supplemental inspection guidance and related documents in the file library are also for internal use only by federal or state pipeline safety regulators (with the exception of documents published in the federal register, such as advisory bulletins). Do not distribute or otherwise disclose such material outside of the state or federal pipeline regulatory organizations. Requests for such information from other government organizations (including, but not limited to, NTSB, GAO, IG, or Congressional Staff) should be referred to PHMSA Headquarters Management.