**GD.2025.01 - GD.2025.01**

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

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

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

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

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

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Point-to-Point Verification** Are there adequate processes to define and identify the circumstances which require a point-to-point verification? (CR.SCADA.POINTVERIFY.P) 192.631(c)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Backup SCADA Verification** Does the testing verify that there are adequate processes in place for decision-making and internal communications to successfully implement a transition from primary SCADA to backup SCADA, and back to primary SCADA? (CR.SCADA.BACKUPSCADAVERIFY.R) 192.631(c)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Backup SCADA Transfer** Do processes adequately address and test the logistics of transferring control to a backup control room? (CR.SCADA.BACKUPSCADATRANSFER.P) 192.631(c)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **28. Backup SCADA Testing** Is a representative sampling of critical functions in the back-up SCADA system being tested to ensure proper operation in the event the backup system is needed? (CR.SCADA.BACKUPSCADAFUNCTIONS.R) 192.631(c)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

**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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Fatigue Risk Reduction** Does the fatigue mitigation plan adequately address how the program reduces the risk associated with controller fatigue? (CR.CRMFM.FATIGUERISKS.P) 192.631(d) (192.631(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Fatigue Quantification** Do processes require that the potential contribution of controller fatigue to incidents and accidents be quantified during investigations? (CR.CRMFM.FATIGUEQUANTIFY.P) 192.631(d) (192.631(a);192.631(g)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Fatigue Mitigation Manager** Is there a designated fatigue risk manager who is responsible and accountable for managing fatigue risk and fatigue countermeasures, and someone (perhaps the same person) that is authorized to review and approve HOS emergency deviations? (CR.CRMFM.FATIGUEMANAGER.P) 192.631(d) (192.631(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Scheduled Shift Length** Is the scheduled shift length less than or equal to 12 hours (not including shift hand-over) or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep? (CR.CRMFM.SHIFTLENGTH.R) 192.631(d)(1) (192.631(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Establishing Shift Length** Does the operator factor in all time the individual is working for the company when establishing shift lengths and schedule rotations and that periods of time off that accommodates commute time or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep? (CR.CRMFM.SHIFTLENGTHTIME.R) 192.631(d)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Scheduled Time Off Between Shifts** Are all scheduled periods of time off at least one hour longer than 8 hours plus commute time or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep? (CR.CRMFM.SCHEDULEDTIMEOFF.R) 192.631(d)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. On Call Controllers** For controllers who are on call, do processes minimize interrupting the required 8 hours of continuous sleep or require a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep? (CR.CRMFM.ONCALLCONTROLLER.P) 192.631(d) (192.631(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Maximum Hours of Service** Do processes limit the maximum HOS limit in any sliding 7-day period to no more than 65 hours or is there a documented technical basis to show a reduction of the risk associated with controller fatigue? (CR.CRMFM.MAXHOS.P) 192.631(d)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Review of Fatigue Education/Training Program Effectiveness** Do processes require that the effectiveness of the fatigue education/training program be reviewed at least once each calendar year, not to exceed 15 months? (CR.CRMFM.FATIGUEREVIEW.P) 192.631(d)(2) (192.631(d)(3);192.605(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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Managing Stale or Unreliable Data** Does the review of safety-related alarms include specific procedures and practices for managing stale or unreliable data? (CR.CRMAM.STALEDATA.P) 192.631(e)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Alarm Value Verification** Do records demonstrate verification of correct safety-related alarm set-point values and alarm descriptors when associated field instruments are calibrated or changed and at least once each calendar year, but at intervals not to exceed 15 months? (CR.CRMAM.ALARMVALUEVERIFY.R) 192.631(e)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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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 (for example, moving a valve) 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 (for example, moving a valve) 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Controller Training and Qualification** Does the training program use a simulator or tabletop exercises to train controllers how to recognize and respond to abnormal operating conditions? (CR.CRMTRAIN.TRAINING.O) 192.631(h)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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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**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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**Design and Construction - Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Underground Clearance** Does the process require pipe to be installed with clearances specified in 192.325 and (if plastic) installed as to prevent heat damage to the pipe? (DC.CO.CLEARANCE.P) 192.303 (192.325(b);192.325(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Underground Clearance** Do field observations indicate that mains are installed with the clearances specified in 192.325 and (if plastic) installed as to prevent heat damage to the pipe? (DC.CO.CLEARANCE.O) 192.325(b) (192.325(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Protection against Accidental Overpressuring** Do records indicate that the pipeline has pressure relieving or pressure limiting devices that are required by 192.195(a), and that they meet the requirements of 192.199 and 192.201? (DC.DPCOPP.OVERPRESSURE.R) 192.195(a) (192.199;192.201(a);192.201(b);192.201(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Design and Construction - Construction Weld Inspection**

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**Design and Construction - Construction Welder Qualification**

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**Design and Construction - Construction Welding Procedures**

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

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**Design and Construction - Maintenance and Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Start-Stop Procedures** During startup or shut-in, is it assured that the pressure limitations on the pipeline were not exceeded? (DC.MO.MAOPLIMIT.O) 192.605(b)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Materials**

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**Design and Construction - Meters, Service Regulators, and Service Lines**

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**Design and Construction - Pressure Testing**

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

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**Design and Construction - Plastic Pipe Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Design Pressure of Plastic Components / Fittings** Does the process require plastic components and fittings are able to withstand operating pressures and other anticipated loads in accordance with a listed specification? (DC.PLASTIC.PLASTICFITTING.P) 192.143(c) (192.149(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Trenchless Installation of Plastic Transmission and Main Pipelines** For plastic pipe Transmission and Main pipelines installed by trenchless excavation, does the process include steps that need to be taken to provide sufficient clearance for installation and maintenance activities from other underground utilities and/or structures at the time of installation? (DC.PLASTIC.PLASTICTRENCHLESS.P) 192.329(a) (192.303) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **47. Maintenance of Equipment Used in Joining of Plastic Pipe by Heat Fusion** Is proper maintenance being performed on equipment used in joining plastic pipe by heat fusion 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **48. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **50. 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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**Emergency Preparedness and Response - Emergency Response**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Liaison with Public Officials** Do records indicate liaisons established and maintained with appropriate fire, police, other public officials, and 911 emergency call centers in accordance with procedures? (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);ADB-2005-03)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Facilities and Storage - Facilities General**

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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 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) (192.611(a);192.611(b);192.611(c);192.611(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Change in Class Location Required Study** Do records indicate performance of the required study whenever the population along a pipeline increased or there was an indication that the pipe hoop stress was not commensurate with the present class location? (MO.GOCLASS.CLASSLOCATESTUDY.R) 192.605(b)(1) (192.609(a);192.609(b);192.609(c);192.609(d);192.609(e);192.609(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**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);192.621(a);192.621(b);192.623(a);192.623(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Prevention of Accidental Ignition** Are there processes for minimizing the danger of accidental ignition where gas constitutes a hazard of fire or explosion? (MO.GM.IGNITION.P) 192.605(b)(1) (192.751(a);192.751(b);192.751(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Protecting Cast-Iron Pipeline** Does the process require adequate protection for segments of a buried cast-iron pipeline for which support has been disturbed? (MO.GM.CASTIRONPROTECT.P) 192.755(a) (192.755(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Maintenance of Equipment Used in Joining of Plastic Pipe by Heat Fusion** Does the process require maintaining equipment used in joining of plastic pipe using heat fusion 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)(1) (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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Maintenance of Equipment Used in Joining of Plastic Pipe by Heat Fusion** Is proper maintenance being performed on equipment used in joining plastic pipe by heat fusion 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **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) 192.605(b)(3) (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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Normal Maintenance and Operations** Have annual reviews of the written procedures or processes in the manual been conducted as required? (MO.GO.OMANNUALREVIEW.R) 192.605(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Normal Operations and Maintenance Procedures - History** Are construction records, maps and operating history available to appropriate operating personnel? (MO.GO.OMHISTORY.R) 192.605(a) (192.605(b)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. EFV Installation** Is there an adequate excess flow valve (EFV) installation and performance program in place? (MO.GO.EFVINSTALL.P) 192.383(b) (192.381(a);192.381(b);192.381(c);192.381(d);192.381(e);192.383(a);192.383(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Pressure Limiting and Regulating Stations Inspection and Testing** Do records indicate inspection and testing of pressure limiting, relief devices, and pressure regulating stations? (MO.GMOPP.PRESSREGTEST.R) 192.709(c) (192.739(a);192.739(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Pressure Limiting and Regulating Stations Inspection and Testing** Are field or bench tests or inspections of regulating stations, pressure limiting stations or relief devices adequate? (MO.GMOPP.PRESSREGTEST.O) 192.739(a) (192.739(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Transmission Patrolling Requirements** Does the process adequately cover the requirements for transmission line patrolling the ROW and conditions reported? (MO.RW.TRANSPATROL.P) 192.705(a) (192.705(b);192.705(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Business District Definition** Do the procedures define a “Business District”? (MO.RW.BUSINESSDIST.P) 192.723(b)(1) (192.721(b)(1);192.723(a);192.613) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Uprating**

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**Gas Distribution Integrity Management - Plan Implementation**

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**Gas Distribution Integrity Management - Knowledge of the System**

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**Gas Distribution Integrity Management - Identify Threats**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Identify Threats - Implementation** Do records demonstrate implementation of the element "Identify Threats"? (GDIM.RA.IMPLEMENTTH.R) 192.1007(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Gas Distribution Integrity Management - Evaluate and Rank Risk**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Rank Risk - Threats Considered** Do the procedures to evaluate and rank risk consider each applicable current and potential threat? (GDIM.RA.THREATSCONSIDERED.P) 192.1007(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Rank Risk - Likelihood** Do the procedures to evaluate and rank risk consider the likelihood of failure associated with each threat? (GDIM.RA.LIKELIHOOD.P) 192.1007(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Rank Risk - System Subdivision** If subdivision of system occurs, does the plan subdivide the system into regions with similar characteristics and for which similar actions are likely to be effective in reducing risk? (GDIM.RA.SUBDIVIDE.R) 192.1007(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Rank Risk - Results** Are the results of the risk ranking supported by the risk evaluation model/method? (GDIM.RA.RESULTS.R) 192.1007(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Rank Risk - Implementation** Do records demonstrate implementation of the element "Evaluate and Rank Risk"? (GDIM.RA.IMPLEMENTRR.R) 192.1007(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Gas Distribution Integrity Management - Preventive and Mitigative Actions**

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

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**Gas Distribution Integrity Management - Periodic Evaluation**

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**Gas Distribution Integrity Management - Reporting**

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Records - Requirements** Are there procedures specifying which records demonstrating compliance with Subpart P will be maintained for at least 10 years? (GDIM.QA.RECORDREQUIREMENTS.P) 192.1011 | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Gas Distribution Integrity Management - GDIM Implementation**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Issues Identified in Previous Integrity Management Inspections** Have all issues raised in previous DIMP inspections been satisfactorily addressed? (GDIM.QA.ISSUESIMPL.R) 192.1005 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. System Knowledge - New Pipe Data** Have required data on any new pipeline installations since August 2, 2011 been captured (e.g., location, wall thickness/SDR, manufacturer, lot/production number)? (GDIM.RA.NEWPIPEIMPL.R) 192.1007(a)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Identify Threats - Threats Considered (New Information)** Has the operator acquired any new information relevant to system knowledge that may affect its threat identification? (GDIM.RA.THREATCATEGORIESIMPL.R) 192.1007(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Measures to Reduce Risk - Leak Management** Can the operator provide documentation to demonstrate that an effective leak management program is being implemented (answer "N/A" if all leaks are repaired when found)? (GDIM.PM.LEAKMANAGEMENTIMPL.R) 192.1007(d) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Small LPG Distribution Integrity Management - Plan Implementation**

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**Small LPG Distribution Integrity Management - Knowledge of the System**

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**Small LPG Distribution Integrity Management - Identify Threats**

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**Small LPG Distribution Integrity Management - Evaluate and Rank Risk**

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**Small LPG Distribution Integrity Management - Preventive and Mitigative Actions**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Measures to Reduce Risk - Identification** Do the written mechanisms or procedures identify when measures, beyond minimum code requirements specified outside of Part 192 Subpart P, are required to reduce risk? (LPGIM.PM.IDENTIFYMEASURES.P) 192.1015(b)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Measures to Reduce Risk - Identification** When measures, beyond minimum code requirements specified outside of Part 192 Subpart P, are required to reduce risk, does the plan identify the measures selected, how they will be implemented, and the risks they are addressing? (LPGIM.PM.IDENTIFYMEASURES.R) 192.1015(b)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Measures to Reduce Risk - Implementation** Do records demonstrate implementation of those measures to reduce risk required by Part 192 Subpart P? (LPGIM.PM.IMPLEMENTPM.R) 192.1015(b)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Small LPG Distribution Integrity Management - Measure Performance and Evaluate Effectiveness**

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**Small LPG Distribution Integrity Management - Periodic Evaluation**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Periodic Evaluation - Evaluation Period** Do the written mechanisms or procedures provide for determination of the appropriate period for conducting IM program evaluations based on the complexity of its pipeline and changes in factors affecting the risk of failure, not to exceed 5 years? (LPGIM.CA.EVALUATIONPERIOD.P) 192.1015(b)(6) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Small LPG Distribution Integrity Management - Records Required to be Kept**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Records - Requirements** Are there written mechanisms or procedures specifying that documents demonstrating compliance to support threat identification will be maintained for at least 10 years? (LPGIM.QA.THREATIDRECORDS.P) 192.1015(c)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Records - System Records** Are there written mechanisms or procedures specifying that documentation will be maintained for at least 10 years showing the location and material of all pipe and appurtenances that are installed after the effective date of the operator's IM program and, to the extent known, the location and material of all pipe and appurtenances that were existing on the effective date of the operator's program? (LPGIM.QA.SYSTEMRECORDS.P) 192.1015(c)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Management Support of Public Awareness Program** Does the operator's program documentation demonstrate management support? (PD.PA.MGMTSUPPORT.P) 192.616(a) (API RP 1162 Section 2.5;API RP 1162 Section 7.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Messages, Delivery Methods, and Frequencies** Does the program define the combination of messages, delivery methods, and delivery frequencies to comprehensively reach all affected stakeholder audiences in all areas where gas is transported? (PD.PA.MESSAGES.P) 192.616(c) (API RP 1162 (1st Edition) Section 3;API RP 1162 (1st Edition) Section 4;API RP 1162 (1st Edition) Section 5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Educational Provisions** Did delivered messages specifically include provisions to educate the public, emergency officials, local public officials, and excavators on: (1) Use of a one-call notification system prior to excavation and other damage prevention activities; (2) Possible hazards associated with unintended releases from a gas pipeline facility; (3) Physical indications of a possible release; (4) Steps to be taken for public safety in the event of a gas pipeline release; and (5) Procedures to report such an event? (PD.PA.EDUCATE.R) 192.616(d) (192.616(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Messages on Pipeline Facility Locations** Were messages developed and delivered to advise affected municipalities, school districts, businesses, and residents of pipeline facility locations? (PD.PA.LOCATIONMESSAGE.R) 192.616(e) (192.616(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Baseline Message Delivery Frequency** Did the delivery of materials and messages meet or exceed the baseline delivery frequencies specified in API RP 1162 (1st Edition), Table 2-1 through Table 2.3? (PD.PA.MESSAGEFREQUENCY.R) 192.616(c) (API RP 1162 (1st Edition) Table 2-1;API RP 1162 (1st Edition) Table 2-2;API RP 1162 (1st Edition) Table 2-3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Liaison with Public Officials** Do records indicate liaisons established and maintained with appropriate fire, police, other public officials, and 911 emergency call centers in accordance with procedures? (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);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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Other Languages** Does the program require that materials and messages be provided in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas? (PD.PA.LANGUAGE.P) 192.616(g) (API RP 1162 (1st Edition) Section 2.3.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Other Languages** Were materials and messages developed and delivered in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas? (PD.PA.LANGUAGE.R) 192.616(g) (API RP 1162 (1st Edition) Section 2.3.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Evaluation Plan** Does the program include a process that specifies how program implementation and effectiveness will be periodically evaluated? (PD.PA.EVALPLAN.P) 192.616(i) (192.616(c);API RP 1162 (1st Edition) Section 8;API RP 1162 (1st Edition) Appendix E) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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**Reporting - Regulatory Reporting (Traditional)**

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**Time-Dependent Threats - Atmospheric Corrosion**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Atmospheric Corrosion** Does the process give adequate guidance identifying atmospheric corrosion and for protecting above ground pipe from atmospheric corrosion? (TD.ATM.ATMCORRODE.P) 192.605(b)(2) (192.479(a);192.479(b);192.479(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Atmospheric Corrosion Monitoring** Do field observations indicate that pipe exposed to atmospheric corrosion is properly coated? (TD.ATM.ATMCORRODEINSP.O) 192.481(b) (192.481(c);192.479(a);192.479(b);192.479(c);192.481(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Bonds, Diodes and Reverse Current Switches** Does the process give sufficient details for making electrical checks of interference bonds, diodes, and reverse current switches? (TD.CPMONITOR.REVCURRENTTEST.P) 192.605(b)(2) (192.465(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Bonds, Diodes and Reverse Current Switches** Do records document details of electrical checks interference bonds, diodes, and reverse current switches? (TD.CPMONITOR.REVCURRENTTEST.R) 192.491(c) (192.465(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. 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))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Corrosion Control Records** Do records indicate the location of all corrosion control items listed in §192.491(a)? (TD.CP.RECORDS.R) 192.491(a) (192.491(b);192.491(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Cathodic Protection post-July 1971** Does the process require that each buried or submerged pipeline installed after July 31, 1971, be protected against external corrosion with a cathodic protection system within 1 year after completion of construction, conversion to service, or becoming jurisdictional onshore gathering? (TD.CP.POST1971.P) 192.605(b)(2) (192.455(a);192.457(a);192.452(a);192.452(b);192.455(c);192.455(d);192.455(f);192.455(g)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. New Buried Pipe Coating Application** Do records document that coatings are applied as required by procedures? (TD.COAT.NEWPIPEINSTALL.R) 192.461(a) (192.461(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. New Buried Pipe Coating Installation** Is external protective coating being protected from damage that could result from adverse ditch conditions or supporting blocks? (TD.COAT.NEWPIPEINSTALL.O) 192.461(d) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Examination of Exposed Portions of Buried Pipe** Does the process require that exposed portions of buried pipeline must be examined for external corrosion? (TD.CPEXPOSED.EXPOSEINSPECT.P) 192.605(b)(2) (192.459) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Evaluation of Externally Corroded Pipe** Do records adequately document the evaluation of externally corroded pipe? (TD.CPEXPOSED.EXTCORRODEEVAL.R) 192.491(c) (192.487;192.489) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Repair of Externally Corroded Pipe** Do records document the repair or replacement of pipe that has been externally corroded to an extent that there is not sufficient remaining pipe wall strength? (TD.CPEXPOSED.EXTCORRODREPAIR.R) 192.491(c) (192.487;192.489) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. 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))  *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 - Internal Corrosion - Preventive Measures**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Internal Corrosion Corrosive Gas Prevention** If the transportation of corrosive gas is not allowed, is the transportation of corrosive gas prevented? (TD.ICP.CORRGASPRVNT.O) 192.475(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Internal Corrosion Corrosive Gas Actions** Do records document the actions taken when corrosive gas is being transported by pipeline? (TD.ICP.CORRGASACTION.R) 192.491(c) (192.477) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Bottle Type and Pipe Type Holders** Does the process preclude storing gas containing more than 0.25 grain of hydrogen sulfide per 100 standard cubic feet (5.8 milligrams/m3) at standard conditions (4 parts per million) in pipe-type or bottle-type holders? (TD.ICP.PIPEBOTTLE.P) 192.605(b)(2) (192.475(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Bottle Type and Pipe Type Holders** Is gas containing more than 0.25 grain of hydrogen sulfide per 100 standard cubic feet (5.8 milligrams/m3) at standard conditions (4 parts per million) being stored in pipe-type or bottle-type holders? (TD.ICP.PIPEBOTTLE.O) 192.475(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Training and Qualification - OQ Protocol 9**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Program Inspection Deficiencies** Have potential issues identified by the OQ plan inspection process been corrected at the operational level? (TQ.PROT9.CORRECTION.O) 192.801(a) (192.809(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Qualification Status** Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks. (TQ.PROT9.QUALIFICATIONSTATUS.O) 192.801(a) (192.809(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Training and Qualification - Operator Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Notification of Significant Plan Changes** Does the process require significant OQ program changes to be identified and the Administrator or State agency notified? (TQ.OQ.CHANGENOTIFY.P) 192.805(i) (192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Covered Task Performed by Non-Qualified Individual** Are there provisions for non-qualified individuals to perform covered tasks while being directed and observed by a qualified individual, and are there restrictions and limitations placed on such activities? (TQ.OQ.NONQUALIFIED.P) 192.805(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Contractor Qualification** Are adequate records containing the required elements maintained for contractor personnel? (TQ.OQ.OQCONTRACTOR.R) 192.807(a) (192.807(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Abnormal Operating Conditions** Do records document evaluation of qualified individuals for recognition and reaction to AOCs? (TQ.OQ.ABNORMAL.R) 192.807(a) (192.807(b);192.803) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Abnormal Operating Conditions** Do individuals performing covered tasks have adequate knowledge to recognize and react to abnormal operating conditions? (TQ.OQ.ABNORMAL.O) 192.803 | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Qualification of Personnel Making Joints in Plastic Pipelines** Do field observations verify 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.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Section 114 - Section 114 - Gas Distribution**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Leaks & Releases - Identification of Fugitive Emissions** Do procedures provide a methodology for identifying sources of fugitive natural gas emissions in the system? (114.114.LKRLSID.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Leaks & Releases - Venting** Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance? (114.114.LKRLSVENT.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Leaks & Releases - Detecting Leaks** Do procedures include instructions for personnel to detect leaks to help further reduce emission in stations and along the right of way? (114.114.LKRLSDETECTLK.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Leak Mitigation & Repair** Do procedures define a process to identify, classify, mitigate and repair leaks? (114.114.LKRLSIDMITRPR.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. Leak Mitigation & Repair - Lost & Unaccounted for Gas** Do procedures provide for review of Lost & Unaccounted for Gas (LAUF) and do procedures specify actions to reduce the associated volume? (114.114.LKMITRPRLAUF.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. General - Feedback to Design/Configuration Practices** Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases? (114.114.GNLDSGNCNFG.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 & 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 & 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. 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 - Master Meter**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Scoping - Use of Natural Gas** Do you use natural gas for fuel or power appurtenances or instrument gas on regulated facilities? (SRN.114.NGUSE.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. Leaks & Releases - Identification of Fugitive Emissions** Do procedures provide a methodology for identifying sources of fugitive natural gas emissions in the system? (114.114.LKRLSID.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Leaks & Releases - Venting** Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance? (114.114.LKRLSVENT.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Leak Mitigation & Repair** Do procedures define a process to identify, classify, mitigate and repair leaks? (114.114.LKRLSIDMITRPR.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. General - Feedback to Design/Configuration Practices** Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases? (114.114.GNLDSGNCNFG.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 & 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. 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.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. NTSB Recommendations Review** Does the operator have procedures in place for reviewing NTSB Recommendations? (GENERIC.NTSB.NTSBREVIEW.P) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. NTSB Recommendations Review** Do the records verify operator conducted reviews of NTSB recommendations and implemented appropriate actions? (GENERIC.NTSB.NTSBREVIEW.R) | | | | | | | | |  |  |  |  |  |  |  |  | |

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