**HL.2025.01 - HL.2025.01**

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

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

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**Assessment and Repair - Integrity Assessments**

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

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

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

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**Assessment and Repair - Integrity Assessment Via Pressure Test - Risk Based Alternative**

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**Assessment and Repair - Other Technology**

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Repair Criteria in Non-HCA Segments** For non-HCA pipeline segments, do the integrity assessment and maintenance processes include adequate criteria for determining the need for, and timeliness of, pipeline defect repairs? (AR.RCOM.REPAIRNONHCA.P) 195.402(c)(3) (195.401(b)(1);195.422(a);195.422(b);195.585(a);195.585(b);195.401(b)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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**Assessment and Repair - Special Permits**

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Controller Authority** Have processes been established to define the controllers' authority and responsibilities when an abnormal operating condition is detected? (CR.CRMRR.AUTHORITYABNORMAL.P) 195.446(b)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Controller Authority (Emergency Operations)** Do processes define the controllers' authority and responsibility to make decisions, take actions, and communicate with others upon being notified of, or upon detection of, and during, an emergency or if a leak or rupture is suspected? (CR.CRMRR.AUTHORITYEMERGENCY.P) 195.446(b)(3) (NTSB P-11-9) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Shift Change Process** Have processes been established for the hand-over of responsibility that specify the type of information to be communicated to the oncoming shift? (CR.CRMRR.HANDOVER.P) 195.446(b)(4) (195.446(c)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Authority to Supersede Controller Action Disallowed - Controllers** Are controllers aware of, and can reference, processes that disallow others to have authority to direct or supersede the specific technical actions of a controller? (CR.CRMRR.OTHERAUTHORITYDISALLOW.O) 195.446(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) 195.446(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) 195.446(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) 195.446(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) 195.446(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) 195.446(c)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. SCADA Display Layout** Has section 6 of API RP 1165(1st Edition) regarding display layout and organization been implemented? (CR.SCADA.DISPLAYLAYOUT.R) 195.446(c)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. SCADA Display Objects** Has section 8 of API RP 1165(1st Edition) regarding display object characteristics been implemented? (CR.SCADA.DISPLAYOBJECTS.O) 195.446(c)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. SCADA Administration** Has section 11 of API RP 1165(1st Edition) administration been implemented? (CR.SCADA.ADMINISTRATION.R) 195.446(c)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **28. 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) 195.446(c)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Backup SCADA Transfer** Do processes adequately address and test the logistics of transferring control to a backup control room? (CR.SCADA.BACKUPSCADATRANSFER.P) 195.446(c)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **32. 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) 195.446(c)(4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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) 195.446(d) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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) 195.446(d)(2) (195.446(d)(3);195.402(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Fatigue Education** Is periodic fatigue education/training documented for all controllers and control room supervisors? (CR.CRMFM.FATIGUEEDUCATE.R) 195.446(d)(2) (195.446(d)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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) 195.446(e) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. 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) 195.446(e)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. 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) 195.446(e)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Change Coordination** Do records indicate that changes in field equipment (e.g., relocating a valve or replacing a valve) that could affect control room operations were coordinated with control room personnel? (CR.CRMCMGT.CHANGECOORDINATION.R) 195.446(f)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. 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) 195.446(f)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**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) 195.446(g)(2) (195.446(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) 195.446(g)(2) (195.446(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) 195.446(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) 195.446(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) 195.446(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) 195.446(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) 195.446(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) 195.446(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) 195.446(h)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Control Room Team Training - Personnel** Do processes establish who, regardless of location, operationally collaborates with control room personnel? (CR.CRMTRAIN.TEAMTRAINPERSONNEL.P) 195.446(h)(6) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Control Room Team Training - Operational Experience** Do processes include incorporation of lessons learned from actual historical events and other oil-gas industry events? (CR.CRMTRAIN.TEAMTRAINEXPERIENCE.P) 195.446(h)(6) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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) 195.446(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) 195.446(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) 195.446(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) 195.446(i) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. CRM Records Management** Are records management processes adequate to assure records are sufficient to demonstrate compliance with the CRM rule? (CR.CRMCOMP.RECORDS.P) 195.446(j)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. CRM Records** Are records sufficient to demonstrate compliance with the CRM rule? (CR.CRMCOMP.RECORDS.R) 195.446(j)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**CRM, SCADA, and Leak Detection - Leak Detection (Non-CPM)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Leak Detection System Evaluation of Capability** Does the process adequately address the evaluation of the operators leak detection system and require modification as necessary? (CR.LD.LDEVAL.P) 195.444(a) (195.444(b);195.452(i)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Pipeline Controller Training** Do the processes define and require that pipeline controllers are trained to recognize leaks based on the system implemented? (CR.LD.LDTRAINING.P) 195.505(h) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. System Testing** Do the processes define and describe the testing of the Leak Detection System? (CR.LD.LDSTEST.P) 195.444(b) (195.134(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Parameter and System Changes** Are parameter and/or system changes required to be reflected in the leak detection system? (CR.LD.LDSMOC.P) 195.444(b) (195.134(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Field Instrumentation Accuracy and Calibration** Is the accuracy and calibration of field instrumentation used in the leak detection system appropriately assured? (CR.LD.LDSINSTRUMENT.P) 195.134(b) (195.444(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. LDS Threat Protection/Security** Is the Leak Detection System adequately protected from security threats? (CR.LD.LDSPROTECT.P) 195.402(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

**CRM, SCADA, and Leak Detection - Leak Detection (CPM)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Leak Detection Measures** Do records demonstrate the operator has identified, considered, or implemented CPM leak detection measures to mitigate the consequences of a pipeline failure? (CR.CPM.CPMSYS.R) 195.446(g) (195.452(i)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Output of CPM System** What is the output of the CPM System? (CR.CPM.CPMOUTPUT.P) 195.402(a) (195.446(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Automatic Closed-Loop Control Response to Alarm** Is automatic closed-loop control response to alarm conditions used? (CR.CPM.ALARMLOOP.P) 195.402(a) (195.446(c);195.446(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Pipeline Controller Training** Are the Pipeline Controllers trained in the recognition of CPM alarms? (CR.CPM.CPMTRAINING.O) 195.444(b) (195.444(c);API-1130(3rd Edition);195.505(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. CPM Threat Protection/Security** Is the CPM system adequately protected from security threats? (CR.CPM.CPMPROTECT.P) 195.402(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Design and Construction - Biofuels**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Qualifying Metallic Components other than Pipe Qualified for their Use?** Do records indicate metallic components other than pipe have been qualified for use? (DC.BIO.METALLIC.R) 195.101(a) (195.101(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Written Construction Specifications or Standards** Does the operator have written construction specifications or standards as required of 195.202? (DC.CO.SPECS.P) 195.202 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Material Inspection** Prior to installation, are pipe and components visually inspected at the site of installation to ensure they are not damaged? (DC.CO.INSPECTION.O) 195.206 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Transportation of Pipe by Ship or Barge** Does the operator have specifications requiring that Ship or Barge transportation for certain pipe (see considerations) is in accordance with §195.207(b) and API RP 5LW(3rd Edition)? (DC.CO.SHIPBARGETRANSPORT.P) 195.202 (195.207(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Transportation of Pipe by Ship or Barge** Does the operator have records showing that Ship or Barge transportation for certain pipe (see considerations) is in accordance with §195.207(b) and API RP 5LW(3rd Edition)? (DC.CO.SHIPBARGETRANSPORT.R) 195.207(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Pipe Installation** Is pipe installed in a manner that minimizes secondary stresses and minimizes possibility of damage? (DC.CO.INSTALL.O) 195.246(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Installation Offshore** Do records indicate offshore piping installed so that the top of the pipe is below the underwater natural bottom or as otherwise allowed by 195.246(b)? (DC.CO.INSTALLOFFSHORE.O) 195.246(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **25. Above Ground Component Installation** Are above ground components installed as allowed by 195.254? (DC.CO.INSTALLABOVEGRND.O) 195.254(a) (195.254(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Valve Accessibility** Does the process specify that valves are accessible to authorized employees and protected from damage or tampering? (DC.CO.VALVEPROTECT.P) 195.258(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **28. Valve Accessibility** Are valves accessible to authorized employees and protected from damage or tampering? (DC.CO.VALVEPROTECT.O) 195.258(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Submerged Valve Marking - Offshore** Are offshore submerged valves located or marked in order to facilitate quick location when operation of the valve is required? (DC.CO.VALVEMARKOFFSHORE.R) 195.266(f) (195.258(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **35. Valve Locations** Are valves located as specified by §195.260? (DC.CO.VALVELOCATION.O) 195.260(a) (195.260(b);195.260(c);195.260(d);195.260(e);195.260(f);195.260(g)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **36. Bending of Pipe.** Does the construction process meet the requirements of 195.212 for bending pipe? (DC.CO.FIELDBEND.P) 195.202 (195.212(a);195.212(b);195.212(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **37. Bending of Pipe.** Does pipe bending meet the requirements of 195.212? (DC.CO.FIELDBEND.O) 195.212(a) (195.212(b);195.212(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **38. Construction Records** Does the process require applicable construction records to be maintained for the life of each pipeline? (DC.CO.RECORDS.P) 195.202 (195.266(a);195.266(b);195.266(c);195.266(d);195.266(e);195.266(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **39. Construction Records** Do records indicate that construction records are being maintained for the life of each pipeline? (DC.CO.RECORDS.R) 195.266(a) (195.266(b);195.266(c);195.266(d);195.266(e);195.266(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **41. Clearance Between Pipe and Underground Structures** Does clearance between pipe and underground structures comply with 195.250? (DC.CO.CLEAR.O) 195.250 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **43. Backfilling** Is backfilling performed in a manner that provides firm support and does no damage to the pipe and coating? (DC.CO.BACKFILL.O) 195.252(a) (195.252(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **44. Crossing of Railroads and Highways** Is pipe at railroad and highway crossings required to be installed to adequately withstand dynamic forces exerted by anticipated traffic loads? (DC.CO.EXTLOAD.P) 195.202 (195.256) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **45. Crossing of Railroads and Highways** Do records indicate pipe at selected railroad and highway crossings was installed to adequately withstand dynamic forces exerted by anticipated traffic loads? (DC.CO.EXTLOAD.R) 195.266(b) (195.256) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **46. Crossing of Railroads and Highways** Is pipe installed at railroad and highway crossings adequate to withstand dynamic forces exerted by anticipated traffic loads? (DC.CO.EXTLOAD.O) 195.202 (195.256) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **53. RMV Installation Requirements** Do field observations verify that RMVs or alternative equivalent technologies were installed to meet the appropriate valve spacing requirements? (DC.CO.RMVINSTALL.O) 195.202 (195.258(c);195.258(d);195.258(e);195.419) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Design and Construction - Construction - Pump Stations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Material Inspection** Prior to installation, are pipe and components visually inspected at the site of installation to ensure they are not damaged? (DC.PS.INSPECTION.O) 195.206 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Pipe Installation** Does the process specify that pipe is installed in a manner that minimizes secondary stresses and minimizes possibility of damage? (DC.PS.INSTALL.P) 195.202 (195.246(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Pipe Installation** Is pipe installed in a manner that minimizes secondary stresses and minimizes possibility of damage? (DC.PS.INSTALL.O) 195.246(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Above Ground Component Installation** Does the process specify that above ground components are installed as allowed by 195.254? (DC.PS.INSTALLABOVEGRND.P) 195.202 (195.254(a);195.254(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Above Ground Component Installation** Are above ground components installed as allowed by 195.254? (DC.PS.INSTALLABOVEGRND.O) 195.254(a) (195.254(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **31. Clearance Between Pipe and Underground Structures** Does clearance between pipe and underground structures comply with 195.250? (DC.PS.CLEAR.O) 195.250 | | | | | | | | |  |  |  |  |  |  |  |  | |

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**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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Arc Burns and Ground Wires** Does the process address arc burns and ground wires in accordance with 195.226? (DC.WELDPROCEDURE.ARCBURNGRNDWIRE.P) 195.202 (195.226(a);195.226(b);195.226(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. Arc Burns and Ground Wires** Do records indicate arc burns and ground wires are addressed in accordance with 195.226? (DC.WELDPROCEDURE.ARCBURNGRNDWIRE.R) 195.226(a) (195.226(b);195.226(c))  *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**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Pipe Internal Design Pressure** Does the process require the internal design pressure of the pipeline (or pipe) be determined in accordance with 195.106? (DC.DN.DESIGNPRESS.P) 195.106(a) (195.106(b);195.106(c);195.106(d);195.106(e))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Fracture Propagation CO2 Pipelines** Do records indicate provisions to mitigate the effects of fracture propagation in carbon dioxide pipeline systems? (DC.DN.CO2FRACPROP.R) 195.111 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Fittings** Do records demonstrate selected material specifications for pipe fittings meet the requirements of 195.118? (DC.DN.FITTING.R) 195.118(a) (195.118(b);195.118(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **25. Fittings** Do the material specifications for selected pipe fittings meet the requirements of 195.118? (DC.DN.FITTING.O) 195.118(a) (195.118(b);195.118(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **28. Passage of Internal Inspection Devices** Is the pipeline system constructed to accommodate the passage of instrumented internal inspection devices? (DC.DN.ILIPASS.O) 195.120(a) (195.120(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **30. Closures** Do records indicate closures comply with the ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 1 (2007) and they have pressure and temperature ratings at least equal to those of the pipe to which the closure is attached? (DC.DN.CLOSURE.R) 195.124 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **31. Closures** Do closures comply with the ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 1 (2007) and do they have pressure and temperature ratings at least equal to those of the pipe to which the closure is attached? (DC.DN.CLOSURE.O) 195.124 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **32. Leak Detection Design** Are newly constructed pipeline segments required to have a leak detection system that protects the public, property, and the environment? (DC.DN.LDDESIGN.P) 195.134(a) (195.134(b);195.134(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Maintenance and Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Safety - Maintenance Construction and Testing** Does the process ensure that pipeline maintenance construction and testing activities are made in a safe manner and are made so as to prevent damage to persons and property? (DC.MO.SAFETY.P) 195.402(a) (195.422(a);195.402(c)(14)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Safety - Maintenance Construction and Testing** Are pipeline maintenance construction and testing activities performed safely and in accordance with procedures to prevent damage to persons and property? (DC.MO.SAFETY.O) 195.422(a) (195.402(c)(14)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Internal Corrosion in Cutout Pipe** Does the process direct personnel to examine removed pipe for evidence of internal corrosion? (DC.MO.ICEXAMINE.P) 195.402(c) (195.579(c);195.579(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Internal Corrosion in Cutout Pipe** Are examinations of removed pipe for evidence of internal corrosion being conducted? (DC.MO.ICEXAMINE.O) 195.579(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Pressure Testing**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Pressure Testing** Is pressure testing being adequately conducted? (DC.PT.PRESSTEST.O) 195.302(a) (195.304;195.305(a);195.305(b);195.306(a);195.306(b);195.306(c);195.306(d);195.307(a);195.307(b);195.307(c);195.307(d);195.307(e);195.308) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Regulated Rural Gathering Lines**

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**Design and Construction - Low Stress Rural Pipelines**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Rural Low-Stress Pipelines** Are processes established for design and installation requirements of Part 195 for rural low-stress pipelines? (DC.LS.RURALLOWSTRESS.P) 195.12(c)(1) (195.12(c)(2);195.12(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Design and Construction - Special Permits**

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**Design and Construction - Training and Qualification**

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**Design and Construction - Training and Qualification (OQ)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Qualification Records - Operator Employee** Does the operator maintain qualification records for operator personnel? (DC.TQOQ.RECORDS.R) 195.505(b) (Operators OQ program manual) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New API 650 Tanks - Part 195 Requirements**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **36. Breakout Tank Areas - Firefighting Equipment** Do records indicate determination of what firefighting equipment is needed to respond to emergencies at the facility and for procedures and training of personnel? (TDC.650REGS.FIREEQUIP.R) 195.430(a) (195.430(b);195.430(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **37. Breakout Tank Areas - Firefighting Equipment** Do field observations confirm the necessary firefighting equipment to respond to emergencies is included at the facility's breakout tank area? (TDC.650REGS.FIREEQUIP.O) 195.430(a) (195.430(b);195.430(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **40. Breakout Tanks - Bottom Linings** Do field observations confirm the installation of bottom linings for new aboveground breakout tanks meet the requirements of 195.579(d)? (TDC.650REGS.BOTTOMLINING.O) 195.579(d) (API RP 652 (3rd Edition)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Tank Design and Construction - New API 650 Tanks - Foundation Design**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Seismic Tank Design (API 650 Appendix E)** For tanks located in regions that may be subject to seismic ground motion (earthquakes), does the process require adherence to API Std 650 (13th Edition), Appendix E - "Seismic Design of Storage Tanks" and a site-specific seismic study (Appendix E.4.2.1)? (TDC.650FDN.SEISMICDESIGN.P) 195.132(b)(3) (API Std 650 (13th Edition), Appendix E.1;API Std 650 (13th Edition), Appendix E.3;API Std 650 (13th Edition), Appendix E.4;API Std 650 (13th Edition), Appendix E.5;API Std 650 (13th Edition), Appendix E.6;API Std 650 (13th Edition), Appendix E.7;ASCE 7) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Foundation - General Design, Subsurface Conditions, and Ringwall** Do field observations confirm the tank foundation and ringwall were constructed and/or installed in accordance with the design specifications? (TDC.650FDN.FDNDESIGN.O) 195.132(b)(3) (API Std 650 (13th Edition), Appendix B.2;API Std 650 (13th Edition), Appendix B.3;API Std 650 (13th Edition), Appendix B.4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New API 650 Tanks - Floor Design**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Floor - Bottom Plate Size** Do field observations confirm that installed bottom plates conform to the design specifications? (TDC.650FLOOR.BOTTOMPLATES.O) 195.132(b)(3) (API Std 650 (13th Edition), Section 5.4) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Tank Design and Construction - New API 650 Tanks - Shell Design**

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**Tank Design and Construction - New API 650 Tanks - Internal Floating Roof (IFR)**

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**Tank Design and Construction - New API 650 Tanks - Fixed Roof**

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**Tank Design and Construction - New API 650 Tanks - External Floating Roof (EFR)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. EFR - Deck General Design Requirements** For EFRs, does the operator’s process require the deck design to include the parameters from API Std 650 (13th Edition), Appendix C? (TDC.650EFR.DECKGENERAL.P) 195.132(b)(3) (API Std 650 (13th Edition), Appendix C.3.3;API Std 650 (13th Edition), Appendix C.3.4;API Std 650 (13th Edition), Appendix C.3.5;API Std 650 (13th Edition), Appendix C.3.7;API Std 650 (13th Edition), Appendix C.3.8.1;API Std 650 (13th Edition), Appendix C.3.9;API Std 650 (13th Edition), Appendix C.3.10;API Std 650 (13th Edition), Appendix C.3.11;API Std 650 (13th Edition), Appendix C.3.12;API Std 650 (13th Edition), Appendix C.3.13;API Std 650 (13th Edition), Appendix C.3.14;API Std 650 (13th Edition), Appendix C.3.15;API Std 650 (13th Edition), Appendix C.4.2;API Std 650 (13th Edition), Appendix C.4.5;API Std 650 (13th Edition), Appendix C.3.8.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New API 650 Tanks - Welding & NDT**

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**Tank Design and Construction - New API 650 Tanks - Appurtenances & Nozzles**

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**Tank Design and Construction - New API 650 Tanks - Hydrostatic Testing**

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**Tank Design and Construction - New Tank Piping - Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Pipe Internal Design Pressure** Does the process require the internal design pressure of the pipeline (or pipe) be determined in accordance with 195.106? (DC.DN.DESIGNPRESS.P) 195.106(a) (195.106(b);195.106(c);195.106(d);195.106(e))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Breakout Tank Piping - Pressure Testing of Piping Tie-Ins** Does the process require testing of pipe associated with tie-ins, either with the section to be tied in or separately? (TDC.TKPIPING.PRESSTESTTIEIN.P) 195.308 (195.402(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New Tank Piping - Construction Welding Procedures (Re-Presented)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Welding on In-Service Pipelines** Does the process require consideration of issues related to welding on in-service pipelines? (DC.WELDPROCEDURE.WELDINSERVICE.P) 195.402(a) (195.422(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. Arc Burns and Ground Wires** Are arc burns and ground wires addressed in accordance with 195.226? (DC.WELDPROCEDURE.ARCBURNGRNDWIRE.O) 195.226(a) (195.226(b);195.226(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Tank Design and Construction - New Tank Piping - Construction Welder Qualification (Re-Presented)**

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**Tank Design and Construction - New Tank Piping - Construction Weld Inspection (Re-Presented)**

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**Tank Design and Construction - Integrity Management for Facilities (Re-Presented)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Mitigative Measures Considered for Facilities that Could Affect an HCA** Do the records indicate that facility mitigative measures to protect the HCAs have been considered and implemented? (IM.FACIL.PMMMITIGATIVE.R) 195.452(l)(1)(ii) (195.452(i)(1))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New API 620 Tanks (Low Pressure) - Part 195 Requirements**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. New Breakout Tank Specs (API 620 Tanks)** Does the design specification (or design package) require the low-pressure tank design and construction to comply with currently IBR’d edition of API Std 620 (12th Edition) as required by §195.132(b)(2)? (TDC.620REGS.TANKSPEC.P) 195.132(b)(2) (195.3(b)(17);API Std 620 (12th Edition), Section 1.2.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New API 620 Tanks (Low Pressure) - Design**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Seismic Tank Design (API 620 Appendix L)** For tanks located in regions that may be subject to SEISMIC ground motion (earthquakes), do field observations indicate that the seismic design requirements were implemented and/or installed? (TDC.620DESIGN.SEISMICDESIGN.O) 195.132(b)(2) (API Std 620 (12th Edition), Appendix L;API Std 650 (13th Edition), Appendix E) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Tank Design and Construction - New API 620 Tanks (Low Pressure) - Fabrication**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Forming Curved Sidewall Sections** Do field observations confirm that shaping of sidewall plates to fit the curvature of the tank, where required, meets the requirements of API Std 620 (12th Edition), section 6.4? (TDC.620FAB.SIDEWALL.O) 195.132(b)(2) (API Std 620 (12th Edition), Section 6.4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Dimensional Tolerances - Plumbness** Do field observations confirm that dimensional tolerances for tank sidewall plumbness meet the specific requirements of API Std 620 (12th Edition), section 6.5.2? (TDC.620FAB.PLUMBNESS.O) 195.132(b)(2) (API Std 620 (12th Edition), Section 6.5.2) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Dimensional Tolerances - Fitting Attachments** Do field observations confirm that dimensional tolerances for fittings attachments meet the specific requirements of API Std 620 (12th Edition), section 6.5.5? (TDC.620FAB.FITTINGATTACH.O) 195.132(b)(2) (API Std 620 (12th Edition), Section 6.5.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Tank Design and Construction - New API 620 Tanks (Low Pressure) - Welding**

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**Tank Design and Construction - New API 620 Tanks (Low Pressure) - Inspection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Inspection of Materials** Do records indicate that all tank materials were properly inspected and tested? (TDC.620INSP.INSPECTMATLS.R) 195.132(b)(2) (API Std 620 (12th Edition), Section 7.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New API 620 Tanks (Low Pressure) - Hydrostatic Testing**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Hydrostatic and Pneumatic Tests** Does the hydrostatic and hydrostatic-pneumatic test plan meet all requirements of API Std 620 (12th Edition), Sections 7.18 and 7.20? (TDC.620HYDRO.HYDROTEST.P) 195.307(b) (195.132(b)(2);API Std 620 (12th Edition), Section 7.18;API Std 620 (12th Edition), Section 7.20) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Hydrostatic and Pneumatic Tests** Do records indicate the tank hydrostatic and hydrostatic-pneumatic test were completed properly in accordance with the test plan and API Std 620 (12th Edition), Sections 7.18 and 7.20? (TDC.620HYDRO.HYDROTEST.R) 195.310 (195.307(b);195.132(b)(2);API Std 620 (12th Edition), Section 7.18;API Std 620 (12th Edition), Section 7.20) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Tank Design and Construction - New API 620 Tanks (Low Pressure) - Marking**

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**Tank Design and Construction - New API 12F Tanks (Shop-Fabricated)**

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**Tank Design and Construction - New API 2510 Tanks (High Pressure) - Part 195 Requirements**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Breakout Tank Overfill Protection** Does the design specification (or design package) require adequate overfill protection? (TDC.2510REGS.OVERFILLPROT.P) 195.428(c) (195.132(b)(4);API Std 2510, Section 7.1.2;API Std 2510, Section 7.1.3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Breakout Tank Overfill Protection - SCADA** Do records indicate initial testing of applicable SCADA overfill protection systems for each new tank was conducted? (TDC.2510REGS.OVERFILLSCADA.R) 195.446(c)(2) (195.132(b)(4)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Pressure Relief Devices** Do records indicate adequate pressure relief devices were installed and tested? (TDC.2510REGS.PRESSURERELIEFS.R) 195.264(e)(4) (195.132(b)(4);API 2510, Section 7.1.6;API RP 520;API RP 521) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Pressure Relief Devices** Do observations confirm pressure relief devices were installed and/or tested in accordance with the design? (TDC.2510REGS.PRESSURERELIEFS.O) 195.264(e)(4) (195.132(b)(4);API 2510, Section 7.1.6;API RP 520;API RP 521) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Unauthorized Entry Protection for Tank Areas** Do field observations confirm adequate protection against unauthorized entry and vandalism was provided for new breakout tank areas? (TDC.2510REGS.UNAUTHENTRY.O) 195.264(c) (195.436;195.132(b)(4)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Tank Design and Construction - New API 2510 Tanks (High Pressure) - Design**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Tank Design Specifications** Does the design specification (or design package) require the high pressure tank design and construction to comply with currently IBR’d edition of API 2510 as required by §195.132(b)(4)? (TDC.2510DESIGN.TANKDESIGN.P) 195.132(b)(4) (API Std 2510, Section 4.1.1;ASME BPVC, Section VIII) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Tank Design Specifications** Do the design records and drawings indicate the tank meets the requirements of the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1 or 2, as required by API 2510, Section 4.1.1? (TDC.2510DESIGN.TANKDESIGN.R) 195.132(b)(4) (API Std 2510, Section 4.1.1;ASME BPVC, Section VIII) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Fire Protection System** Does the design specification (or design package) require the fire control equipment to meet the requirements of API 2510, Section 10? (TDC.2510DESIGN.FIREPROT.P) 195.132(b)(4) (195.434;API Std 2510, Section 10;API Publ 2510A) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Fire Protection System** Do field observations verify fire control equipment was installed and meets the requirements of API 2510, Section 10? (TDC.2510DESIGN.FIREPROT.O) 195.132(b)(4) (195.434;API Std 2510, Section 10;API Publ 2510A) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Tank Design Observations** Do field observations confirm the observed tank design parameters were correctly applied to the tank construction? (TDC.2510DESIGN.DESIGNOBS.O) 195.132(b)(4) (API Std 2510;ASME BPVC, Section VIII) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Tank Design and Construction - New API 2510 Tanks (High Pressure) - Siting**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Siting Factors for Safety** Does the design specification (or design package) require siting of the tank to minimize fire or explosion risk to adjacent property, as required by API 2510, Section 5.1? (TDC.2510SITING.SITINGSAFETY.P) 195.132(b)(4) (API Std 2510, Section 5.1;API Std 2510, Section 10.4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Siting Factors for Safety** Do field observations confirm placement (or planned siting) of the tank conforms to the requirements of API 2510, Section 5.1? (TDC.2510SITING.SITINGSAFETY.O) 195.132(b)(4) (API Std 2510, Section 5.1;API Std 2510, Section 10.4) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Impoundment, Grading, and Drainage** Do the records (e.g., as-built drawings) indicate proper impoundment and drainage was provided around the tank? (TDC.2510SITING.IMPOUNDMENT .R) 195.132(b)(4) (API Std 2510, Section 5.2;API Std 2510, Section 5.3;API Std 2510, Section 5.4;API Std 2510, Section 5.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Impoundment, Grading, and Drainage** Do field observations confirm adequate impoundment and drainage was provided around the tank? (TDC.2510SITING.IMPOUNDMENT.O) 195.132(b)(4) (API Std 2510, Section 5.2;API Std 2510, Section 5.3;API Std 2510, Section 5.4;API Std 2510, Section 5.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Emergency Preparedness and Response - Emergency Planning OPA**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Drill Program Requirements** Has the oil spill response drill/exercise program been documented? (EP.EPO.OPADRILL.R) 194.7(b) (National Preparedness for Response Exercise Program (PREP) Guidelines, Section 5 (August 2002);194.107(c)(1)(ix)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Worst Case Discharge** Do records demonstrate that the worst case discharge for each response zone was adequately determined? (EP.EPO.OPAWRSTDISCHRG.R) 194.105(a) (194.105(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Worst Case Discharge - Response** Do records indicate adequate response capabilities are in place for the worst case discharge of each response zone? (EP.EPO.OPAWRSTDISCHRGRSP.R) 194.107(a) (194.115(a);194.115(b);194.121(b);194.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Response Plan Qualified Individuals (QIs)** Are the Qualified Individuals listed in Facility Response Plan current and are their phone numbers accurate? (EP.EPO.OPAQUALINDIV.O) 194.113(b)(2) (194.5;194.121(b)(6)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Response Plan Type of Oil Transported** Are the types of oil transported described in the plan accurate? (EP.EPO.OPAOILTYPE.R) 194.113(b)(6) (194.121(b)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Emergency Preparedness and Response - Emergency Response Biofuels**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Biofuels - Emergency Response (Supervisors)** Do records indicate verification that supervisors have a thorough knowledge of any changes to the emergency response procedures for which they are responsible? (EP.ERB.BIOSUPERVISE.R) 195.403(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Emergency Preparedness and Response - Emergency Response Liquids**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Emergency Plan and Procedures** Does the O&M plan include a requirement to review the emergency manual at intervals not exceeding 15 months, but at least once each calendar year, and make appropriate changes as necessary to ensure it is effective? (EP.ERL.REVIEW.P) 195.402(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Emergency Plan and Procedures** Has the operator conducted annual reviews of the emergency plans and procedures as required and made appropriate changes? (EP.ERL.REVIEW.R) 195.402(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Emergency Plan and Procedures Locations** Are appropriate parts of the manual kept at locations where operations and maintenance activities are conducted? (EP.ERL.LOCATION.O) 195.402(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Liaison with Public Officials** Does the O&M plan include processes for establishing and maintaining liaison with appropriate fire, police and other public officials and utility owners? (EP.ERL.LIAISON.P) 195.402(a) (195.402(c)(12);195.440(c);API RP 1162 Section 4.4 (1st Edition)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Liaison with Public Officials** Do records indicate that liaison has been established and maintained with appropriate fire, police, public officials, and utility owners? (EP.ERL.LIAISON.R) 195.402(a) (195.402(c)(12);195.440(c);API RP 1162 Section 4.4 (1st Edition))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Notification of Potential Rupture** Does the operator have procedures to identify and notify operator personnel of a potential rupture? (EP.ERL.NOTIFYPOTRUPTURE.P) 195.417 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Valve Shut-off Capabilities** Does the operator have procedures to shut-off RMVs or AETs following identification of a release? (EP.ERL.VALVESHUTOFF.P) 195.402 (195.419(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Notification of Potential Rupture** Do the records indicate the operator properly identified and notified operator personnel of a potential rupture? (EP.ERL.NOTIFYPOTRUPTURE.R) 195.417 | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Emergency Response** Does the emergency plan include processes for making a prompt and effective response to a notice of each type of emergency, fire, explosion, accidental release of a hazardous liquid, operational failure (including cyber-attacks), or natural disaster affecting the pipeline? (EP.ERL.RESPONSE.P) 195.402(a) (195.402(c)(4);195.402(c)(6);195.402(e)(2);195.402(e)(10)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Emergency Response Hazard Reduction** Does the emergency plan include processes for controlling the release of liquid at an accident scene to minimize the hazards, including possible ignition in the cases of flammable HVLs? (EP.ERL.HAZREDUCE.P) 195.402(a) (195.402(c)(11);195.402(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Authority Notification** Does the emergency plan include processes for notifying fire, police, and other appropriate public officials of hazardous liquid emergencies and coordinating with them preplanned and actual responses during an emergency, including additional precautions necessary for an emergency involving HVLs? (EP.ERL.AUTHORITIES.P) 195.402(a) (195.402(e)(7)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Authority Notification** Do records indicate that notifications were made to fire, police, and other appropriate public officials of hazardous liquid emergencies and were coordinated with preplanned and actual responses (including additional precautions necessary for an emergency involving HVLs)? (EP.ERL.AUTHORITIES.R) 195.402(a) (195.402(e)(7)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Emergency Response - Designated Persons Notify 911** Does the emergency plan define the operator’s designated person(s) (e.g., controller or other personnel) responsible to directly notify 911 or the phone number of appropriate local emergency officials to report emergencies and possible pipeline ruptures to first responder agencies/authorities? (EP.ERL.NOTIFY911.P) 195.402(a) (195.402(e)(7);NTSB P-11-9) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Emergency Response - HVL Instruments** Does the emergency plan include processes for determining the extent and coverage of vapor cloud and hazardous areas of HVLs by using appropriate instruments? (EP.ERL.HVLMEASURE.P) 195.402(a) (195.402(e)(8)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Emergency Preparedness and Response - Emergency Training of Personnel**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Emergency Response Supervisor Training** Does the process require and verify that supervisors be knowledgeable of emergency response procedures for which they are responsible? (EP.ETR.TRAININGSUPERVISE.P) 195.403(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Emergency Response Supervisor Training** Do records indicate verification that supervisors are knowledgeable of emergency response procedures for which they are responsible? (EP.ETR.TRAININGSUPERVISE.R) 195.403(c) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Accident Investigation** Does the operator's O&M plan include processes for analyzing pipeline accidents to determine their causes? (EP.FAI.ACCIDENTANALYSIS.P) 195.402(a) (195.402(c)(5);195.402(c)(6)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Accident Summary** For accidents that involve an RMV, do the operator’s procedures require an accident summary? (EP.FAI.ACCIDENTSUMMARY.P) 195.402(a) (195.402(c)(5);195.402(c)(6)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Failure RMV Analysis** For failures that involve an RMV, does the operator’s procedures require a post-failure analysis of all the factors and identify and implement operators and maintenance measures to minimize future failures? (EP.FAI.FAILURERMVANALYSIS.P) 195.402(a) (195.402(c)(5);195.402(c)(6)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Failure Analysis Records** Do records indicate pipeline failures were analyzed to determine their causes? (EP.FAI.FAILUREANALYSIS.R) 195.402(a) (195.402(c)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Facilities and Storage - Tanks and Storage - Inspection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Breakout Tank Inspection - Non-Standard Tanks In-Service** For breakout tanks not being inspected to API Std-653 (3rd Edition) or API Std-510 (9th Edition), does the process describe the interval and method for performing tank inspections? (FS.TANKS.NONSTDINSP.P) 195.402(c)(3) (195.432(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Facilities and Storage - Facilities General**

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**Facilities and Storage - Pump Stations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Over Pressure Protection** Are inspections of overpressure safety devices adequate (including HVL lines)? (MO.LMOPP.PRESSREGTEST.O) 195.428(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. Pump Station Emergency Shutdown Devices** Has a device for activating emergency shutdown of the pump station been installed? (FS.PS.PSESD.O) 195.262(b) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Launcher and Receiver Pressure Relief** Does the process include requirements for relief devices and their proper use for launchers and receivers? (MO.LMOPP.LAUNCHRECVRELIEF.P) 195.402(c)(3) (195.426)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Launcher and Receiver Pressure Relief** Are launchers and receivers equipped with relief devices? (MO.LMOPP.LAUNCHRECVRELIEF.O) 195.426  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Facilities and Storage - Tanks and Storage**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Pressure Control Equipment and Overpressure Protection on Atmospheric or Low Pressure Tanks** Does the process require inspection and testing of pressure control equipment and overpressure protection on atmospheric or low pressure breakout tanks at intervals not exceeding 15 months, but at least once each calendar? (FS.TS.PRESSREGTEST.P) 195.402(c)(3) (195.428(a);API 2000) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Tank Overfill Protection - Non-HVL Tanks** Does the process require adequate testing and inspection of overfill devices on aboveground breakout tanks at intervals not exceeding 15 months, but at least once each calendar year? (FS.TS.OVERFILL.P) 195.402(c)(3) (195.428(a);195.428(c);195.428(d);API 2350 (5th Edition)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Protection Against Ignitions During O&M of Breakout Tanks** Does the process describe how the operator protects against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks? (FS.TS.IGNITION.P) 195.402(c)(3) (195.405(a);API RP-2003 (7th Edition)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Facilities and Storage - Valves**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Valve Protection** Does the process contain criteria for providing protection for each valve from unauthorized operation and from vandalism? (MO.LM.VALVEPROTECT.P) 195.402(c)(3) (195.420(c))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Integrity Management - High Consequence Areas**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. IMP High Consequence Areas Release Locations and Spill Volumes** Do records indicate that identified release locations and spill volumes are consistent with the documented process? (IM.HC.HCARELEASE.R) 195.452(l)(1)(ii) (195.452(f)(1);195.452(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. IMP High Consequence Areas Overland Spread of Liquid Pool** Does the process include an analysis of overland spread of hazardous liquids to determine the extent of commodity spread and its effects on HCAs? (IM.HC.HCAOVERLAND.P) 195.452(f)(1) (195.452(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. IMP High Consequence Areas Identification of Segments that Could Indirectly Affect an HCA (Buffer Zone)** Does the process include all locations of pipeline segments that do not intersect, but could indirectly affect, an HCA (buffer zone)? (IM.HC.HCAINDIRECT.P) 195.452(f)(1) (195.452(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. IMP High Consequence Areas Identification of Segments that Could Indirectly Affect an HCA (Buffer Zone)** Do the records indicate that endpoints of pipeline segments that could affect an HCA have been correctly identified where a buffer zone approach is utilized? (IM.HC.HCAINDIRECT.R) 195.452(l)(1)(ii) (195.452(f)(1);195.452(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Integrity Management - Information Analysis**

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**Integrity Management - Risk Analysis**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Risk Analysis Input Information** Are field conditions on the pipeline segments accurately reflected in the appropriate risk assessment data and information? (IM.RA.RADATA.O) 195.452(b)(5) (195.452(f)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Integrity Management - Continual Evaluation and Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. IMP Continual Evaluation and Assessment Interval Variance Notification** Do the records indicate that variance notifications been submitted to PHMSA for integrity assessment intervals longer than the 5-year maximum assessment interval? (IM.CA.ASSESSNOTIFY.R) 195.452(l)(1)(ii) (195.452(f)(5);195.452(m);195.452(j)(4)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Integrity Management - Preventive and Mitigative Measures**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. P&M Measures - Identification & Evaluation** Do records demonstrate that the process of identification and evaluation for Preventive & Mitigative Measures (P&M Measures) has been applied in accordance with the documented process? (IM.PM.PMMMEASURES.R) 195.452(l)(1)(ii) (195.452(f)(6);195.452(i)(1);195.452(i)(2);195 Appendix C, Section VI;API Standard 1160) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. P&M Measures - Risk Analysis** Does the Integrity Management Program include conducting a risk analysis of the pipeline segment(s) to identify additional preventive & mitigative actions to enhance public safety or environmental protection? (IM.PM.PMMRISKANALYSIS.P) 195.452(f)(6) (195.452(i)(1);195.452(i)(2);195 Appendix C, Section II;API Standard 1160) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. P&M Measures - Risk Analysis** Do records demonstrate that an adequate risk analysis of the pipeline segment(s) to identify additional preventive & mitigative actions to enhance public safety or environmental protection was performed? (IM.PM.PMMRISKANALYSIS.R) 195.452(l)(1)(ii) (195.452(f)(6);195.452(i)(1);195.452(i)(2);195 Appendix C, Section VI;API Standard 1160) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. P&M Measures - Leak Detection Capability Evaluation** Does the Integrity Management Program include a process for the evaluation of leak detection capabilities and modifying, as necessary, to protect the high consequence areas? (IM.PM.IMLEAKDETEVAL.P) 195.452(f)(6) (195.452(i)(3);195 Appendix C, Section III;API Standard 1160;API RP-1130(3rd Edition)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. P&M Measures - Evaluation for EFRDs (Required)** Does the Integrity Management Program include a preventive & mitigative (P&M) measures process that specifically addresses the identification, evaluation, and application of EFRDs to protect high consequence areas in the event of a hazardous liquid pipeline release? (IM.PM.PMMEFRDREQUIRED.P) 195.452(f)(6) (195.452(i)(4);195.452(i)(1);195.452(i)(2);API Standard 1160) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Integrity Management - Facilities**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Identification of Facilities that Could Affect an HCA** Does the program include a written process for identification of facilities that could affect an HCA? (IM.FACIL.FACILIDENT.P) 195.452(f)(1)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Identification of Facilities that Could Affect an HCA** Do the records indicate that locations and boundaries of HCA-affecting facilities are correctly identified and maintained up-to-date? (IM.FACIL.FACILIDENT.R) 195.452(l)(1)(i) (195.452(b)(2);195.452(d)(2))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Facilities Releases that Could Affect an HCA** Do the records indicate that identified release locations and spill volumes at facilities are consistent with the program requirements? (IM.FACIL.RELEASE.R) 195.452(l)(1)(ii)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Facilities Releases Spread that Could Affect an HCA** Does the process include an analysis of overland spread & water transport of hazardous liquids to determine the extent of commodity spread from the facility and its effects on HCAs? (IM.FACIL.SPREAD.P) 195.452(f)(1) (195.452(l)(1)(i))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Periodic Evaluation of Facilities that Could Affect an HCA** Do the records indicate that periodic evaluations of integrity at facilities affecting HCAs have been performed? (IM.FACIL.PERIODEVAL.R) 195.452(l)(1)(ii) (195.452(j)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Preventive Measures Considered for Facilities that Could Affect an HCA** Does the process include requirements for identification of facility preventive measures to protect the HCAs? (IM.FACIL.PMMPREVENTIVE.P) 195.452(f)(6) (195.452(i))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Preventive Measures Considered for Facilities that Could Affect an HCA** Do the records indicate that facility preventive measures to protect the HCAs have been considered and implemented? (IM.FACIL.PMMPREVENTIVE.R) 195.452(l)(1)(ii) (195.452(i)(1))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Mitigative Measures Considered for Facilities that Could Affect an HCA** Does the process include requirements for identification and implementation of facility mitigative measures to protect the HCAs? (IM.FACIL.PMMMITIGATIVE.P) 195.452(f)(6) (195.452(i))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Mitigative Measures Considered for Facilities that Could Affect an HCA** Do the records indicate that facility mitigative measures to protect the HCAs have been considered and implemented? (IM.FACIL.PMMMITIGATIVE.R) 195.452(l)(1)(ii) (195.452(i)(1))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Preventive & Mitigative Measures Implemented for Facilities that Could Affect an HCA** Does an on-site observation provide indications that facility preventive & mitigative measures to protect the HCAs were implemented as proposed? (IM.FACIL.PMMIMPLEMENT.O) 195.452(i)(1)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Integrity Management - Quality Assurance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Measuring Program Effectiveness** Does the process for evaluating IM program effectiveness include the elements necessary to conduct a meaningful evaluation? (IM.QA.IMPERFEFECTIVE.P) 195.452(f)(7) (195.452(k)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Measuring Program Effectiveness** Do the records indicate the methods to measure program effectiveness provide effective evaluation of program performance and result in program improvements where necessary? (IM.QA.IMPERFEFECTIVE.R) 195.452(l)(1)(ii) (195.452(f)(7);195.452(k)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Performance Metrics** Does the process to evaluate IM program effectiveness include an adequate set of performance metrics to provide meaningful insight into IM program performance? (IM.QA.IMPERFMETRIC.P) 195.452(f)(7) (195.452(k)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Performance Metrics** Do the records indicate that performance metrics are providing meaningful insight into integrity management program performance? (IM.QA.IMPERFMETRIC.R) 195.452(l)(1)(ii) (195.452(f)(7);195.452(k)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Record Keeping** Do the records indicate that the operator documented decisions, analysis, and actions taken to implement and evaluate each key integrity management program activity? (IM.QA.RECORDS.R) 195.452(l)(1)(ii) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - Liquid Pipeline Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. O&M Manual** Does the operator have an O&M manual, and has a procedure to properly maintain all portions of the manual? (MO.LO.OMMANUAL.P) 195.402(a) (195.402(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. O&M Manual Review** Do records indicate annual reviews of the written procedures in the manual were conducted as required? (MO.LO.OMMANUALREVIEW.R) 195.402(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Normal Maintenance and Operations - History** Are current maps and records of its pipeline systems available to appropriate operating personnel? (MO.LO.OMHISTORY.O) 195.404(a) (195.404(c);195.9;195.402(c)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Pipeline Pressure Testing** Do records indicate pressure testing for all lines except as allowed by 195.302(b)? (MO.LO.PRESSTESTREQ.R) 195.402(c)(3) (195.302(b);195.302(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Communications** Is a communication system in place that provides for the safe operation of the pipeline system? (MO.LO.COMMSYS.O) 195.408(a) (195.408(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Liquid Pipeline Startup and Shutdown Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Normal Maintenance and Operations - Startup & Shutdown** Does the process include procedures for starting up and shutting down any part of the pipeline system in a manner designed to assure operation within the limits prescribed by 195.406? (MO.LOOPER.PRESSURELIMIT.P) 195.402(a) (195.402(c)(7)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Maintenance and Operations - Liquid Pipeline MOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Establishing Maximum Operating Pressure** Does the process include procedures for establishing the maximum operating pressure allowed in accordance with 195.406(a)? (MO.LOMOP.MOPDETERMINE.P) 195.402(c)(3) (195.302(c);195.406(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Over Pressure Protection - Non HVL** Does the process adequately detail the inspecting and testing of each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment? (MO.LMOPP.PRESSREGTEST.P) 195.402(c)(3) (195.428(a))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Over Pressure Protection** Are inspections of overpressure safety devices adequate (including HVL lines)? (MO.LMOPP.PRESSREGTEST.O) 195.428(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. Launcher and Receiver Pressure Relief** Does the process include requirements for relief devices and their proper use for launchers and receivers? (MO.LMOPP.LAUNCHRECVRELIEF.P) 195.402(c)(3) (195.426)  *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 - Liquid Pipeline Abnormal Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Abnormal Operating Procedures** Does the process include procedures for responding to, investigating, and correcting the cause of the listed abnormal operating conditions? (MO.ABNORMAL.ABNORMAL.P) 195.402(a) (195.402(d)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Abnormal Operating Procedures - Variations** Does the process include procedures for checking variations from normal operation after abnormal operations have ended at sufficient locations in the system to determine continued integrity and safe operations? (MO.ABNORMAL.ABNORMALCHECK.P) 195.402(a) (195.402(d)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Abnormal Operating Procedures - Notify** Does the process include procedures for ensuring operating personnel notify responsible operator personnel where notice of an abnormal operation is received? (MO.ABNORMAL.ABNORMALNOTIFY.P) 195.402(a) (195.402(d)(4)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Abnormal Operating Procedures - Effectiveness Review** Does the process include procedures for periodically reviewing the response of operating personnel to determine the effectiveness of the procedures for controlling abnormal operation and taking corrective action where deficiencies are found? (MO.ABNORMAL.ABNORMALREVIEW.P) 195.402(a) (195.402(d)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Abnormal Operating Procedures - Effectiveness Review** Do records indicate post-event reviews of actions taken by operator personnel to determine the effectiveness of the abnormal operation procedures and whether corrective actions were taken where deficiencies were found? (MO.ABNORMAL.ABNORMALREVIEW.R) 195.404(b) (195.402(d)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - ROW Markers, Patrols, Monitoring and Analysis**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. ROW Inspection Requirements** Do records indicate ROW surface conditions and crossings under navigable waterways were inspected, and reporting and appropriate mitigation performed? (MO.RW.PATROL.R) 195.412(a) (195.412(b))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. ROW Marker Requirements** Does the process address how line markers are to be placed and maintained? (MO.RW.ROWMARKER.P) 195.402(a) (195.410(a);195.410(c);API RP 1162 (1st Edition), Section 2.7;API RP 1162 (1st Edition), Section 8)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Identification of GOM Pipeline Hazards** Does the process require identification of pipelines in the Gulf of Mexico at risk of being exposed underwater or hazards to navigation? (MO.RW.GOMHAZARD.P) 195.413(a) (195.413(b);195.413(c))  *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 - Liquid Pipeline Maintenance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Alternative Equivalent Technology (AET) Requirements** Does the procedures specify the requirements necessary to be achieved when they install an AET? (MO.LM.AETREQUIREMENT.P) 195.420(e) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. RMV Remedial Actions** Do the procedures adequately describe the remedial measures required for RMVs or AETs found inoperable or unable to maintain shut-off? (MO.LM.RMVREMEDIAL.P) 195.420(f) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. ASV Shut-in Pressure Confirmation** Do the procedures adequately describe the process for confirming ASV shut-in pressures? (MO.LM.ASVSHUTINPRESS.P) 195.402(a) (195.419(f);195.420(g)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Valve Maintenance** Do the pipeline system valves appear to be in good working order and are they protected from unauthorized operation? (MO.LM.VALVEMAINT.O) 195.420(a) (195.420(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. Dynamic Riser Inspection, Maintenance, and Monitoring Records on Offshore Floating Facilities** Do records for Dynamic Riser Inspection, Maintenance, and Monitoring on Offshore Floating Facilities document the safe and reliable operation of these systems? (MO.LM.DYNAMICRISER.R) 195.402(c)(3) (195 Subpart H) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - Biofuels**

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**Maintenance and Operations - Low-Stress Rural Pipelines**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Categorizing Rural Low Stress Pipelines** Does the process require that rural low stress pipelines be properly categorized? (MO.LS.CATEGORIZATION.P) 195.12(b) (195.12(b)(1);195.12(b)(2);195.12(b)(3);195.452(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Categorizing Rural Low Stress Pipelines** Are locations and boundaries of segments that can affect a USA correctly identified? (MO.LS.CATEGORIZATION.O) 195.12(b) (195.12(b)(1);195.12(b)(2);195.12(b)(3);195.452(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Developing an IM Plan (Low Stress)** Do the records indicate that an IM Plan was developed by the applicable deadline for Low Stress Category 1 and 2 pipeline segments? (MO.LS.IMPLAN.R) 195.452(l)(1)(ii) (195.12(c);195.452(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. IM Program Applicability to Low Stress Pipelines** Does the Operator have 195.12 Category 1 or Category 2 Low Stress pipelines in rural areas for which the operator must have an integrity management program in compliance with 195.452? (MO.LS.IMPROGAPPLIC.P) 195.452(a) (195.12(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Changes in USAs (Low Stress)** Does the process require that changes in USAs be handled in accordance with 195.12(e)? (MO.LS.CHANGEINUSA.P) 195.12(e) (195.12(e)(1);195.12(e)(2);195.452(d)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Changes in USAs (Low Stress)** Do the records indicate that changes in USAs were handled in accordance with 195.12(e)? (MO.LS.CHANGEINUSA.R) 195.12(f) (195.12(e)(1);195.12(e)(2);195.452(l)(1)(ii)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Records Retention (Low Stress)** Do the records indicate that the requirements of 195.12(f) for records retention have been met? (MO.LS.RECORDSRETENTION.R) 195.12(f) (195.12(f)(1);195.12(f)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - Liquid Conversion**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Conversion to Service** Do records indicate the process was followed for converting any pipelines into Part 195 service? (MO.LC.CONVERSION.R) 195.5(c) (195.5(a);195.5(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Maintenance and Operations - Extreme Weather**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Extreme Weather Inspection Implementation** Do records indicate the operator conducted the required inspection following an extreme weather or natural disaster event? (MO.EW.EXTWEATHERINSPIMPL.R) 195.404(c) (195.414(a);195.414(b);195.414(c);195.414(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Extreme Weather Inspection Safe Operation** Are the pipeline facilities that were affected by an extreme weather or natural disaster event back to a safe operating condition? (MO.EW.EXTWEATHERINSPSAFE.O) 195.414(d) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Participation in Qualified One-Call Systems** Does the process require participation in qualified one-call systems? (PD.DP.ONECALL.P) 195.442(a) (195.442(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Documented Damage Prevention Program** Does the operator have a damage prevention program approved and in place? (PD.DP.PROGRAM.P) 195.442(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Documented Damage Prevention Program - TPD** Does the process specify how reports of Third Party Activity and names of associated contractors or excavators are input back into the mail-outs and communications with excavators along the system? (PD.DP.TPD.P) 195.442(a) (195.442(b);195.442(c)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Program Requirements** Do records indicate the damage prevention program is being carried out as written? (PD.DP.PROGRAM.R) 195.442(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

**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) 195.440(b) (API RP 1162 (1st Edition), 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) 195.440(d) (195.440(e);195.440(f);API RP 1162 (1st Edition) Section 2.2;API RP 1162 (1st Edition)Section 3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Management Support of Public Awareness Program** Does the operator's program documentation demonstrate management support? (PD.PA.MGMTSUPPORT.P) 195.440(a) (API RP 1162 (1st Edition) Section 2.5;API RP 1162 (1st Edition) Section 7.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Public Education Program** Has the continuing public education (awareness) program been established as required? (PD.PA.PROGRAM.P) 195.440(a) (195.440(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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) 195.440(d) (195.440(e);195.440(f);API RP 1162 (1st Edition) Section 2.2;API RP 1162 (1st Edition) Section 3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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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) 195.440(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) 195.440(g) (API RP 1162 (1st Edition) Section 2.3.1) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Acceptable Methods for Program Implementation Audits** Was one or more of the three acceptable methods (i.e., internal assessment, 3rd-party contractor review, or regulatory inspections) used to complete the annual audit or review of the public awareness program implementation? (PD.PA.AUDITMETHODS.R) 195.440(c) (195.440(i);API RP 1162 (1st Edition) Section 8.3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. Program Changes** Were needed changes and/or modifications to the program identified and documented based on the results and findings of the program effectiveness evaluations? (PD.PA.CHANGES.R) 195.440(c) (API RP 1162 (1st Edition) Section 2.7 (Step 12);API RP 1162 (1st Edition) Section 8.5) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. ROW Inspection Requirements** Does the process require inspection of ROW surface conditions and crossings under navigable waterways, as well as reporting and mitigation of findings from said inspections? (MO.RW.PATROL.P) 195.402(a) (195.412(a);195.412(b))  *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 - Facilities Signage and Security**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Facility Protection** Are facilities adequately protected from vandalism and unauthorized entry? (FS.FG.FACPROTECT.O) 195.436  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Smoking/Open flames** Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities? (FS.FG.IGNITION.O) 195.438  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Smoking/Open Flames** Do records show precautions taken to prevent ignition sources in areas with a potential for accumulating flammable vapors or leaking hazardous liquids? (FS.FG.IGNITION.R) 195.404(c) (195.438)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Signage** Are there operator signs around each pumping station, breakout tank area, and other applicable facilities? (FS.FG.SIGNAGE.O) 195.434  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Smoking/Open Flames** Does the process prohibit smoking and open flames in each pump station and breakout tank area, or where there is the possibility of the leakage of a flammable hazardous liquid or the presence of flammable vapors? (FS.FG.IGNITION.P) 195.402(c)(3) (195.438)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Facility Protection** Does the process require facilities to be protected from vandalism and unauthorized entry? (FS.FG.PROTECTION.P) 195.402(c)(3) (195.436)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Signage** Does the process require operator signs to be posted around each pump station and breakout tank area? (FS.FG.SIGNAGE.P) 195.402(c)(3) (195.434)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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**Reporting - Notices and Reporting**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. OQ Notifications- 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) 195.505(i) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. OQ Notifications- Program Modifications** Do records indicate the Administrator or state agency was notified when the OQ Program was significantly modified? (RPT.NR.NOTIFYOQ.R) 195.505(i) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Reporting - Regulatory Reporting (Traditional)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Annual Report Records** Do the records indicate that complete and accurate Annual Reports have been submitted? (RPT.RR.ANNUALREPORT.R) 195.49 (195.13(b);195.15(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Reporting - Special Permits**

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**Screening - General Screening Questions**

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**Screening - AR - ECDA**

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**Screening - AR - SCC (Stress Corrosion Cracking)**

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**Screening - AR - Integrity Assessments**

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Making IM-Covered Pipe Capable of Inline Inspection** If applicable, describe what IM-covered portions of line pipe cannot accommodate inline inspection (ILI), and any projects (planned, completed, or underway) to modify the line(s) to make them capable of ILI. (SRN.AR-IL.IMPIG.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Pipeline Assessments for non-IM Onshore**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Pipeline Assessments of Non-IM Onshore Pipelines** Describe plans and schedules developed for pipeline assessments of onshore line pipe that can accommodate inspection by means of in-line inspection tools and is not subject to the integrity management requirements in 195.452. (SRN.AR-PA.PIPEASSMNTS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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**Screening - AR - Integrity Assessment Via Pressure Test - Risk Based Alternative**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Integrity Assessment Via Pressure Test - Risk Based Alternative** Was a Risk-Based Alternative to pressure testing used to assess the integrity of the pipeline, and if so, what was the alternative used and the results? (provide details) (SRN.AR-PTIRB.RISKBASEDALT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - AR - Other Technology**

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

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

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

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**Screening - AR - Special Permits**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Special Permits** Is the pipeline currently, or in the last 5 years, operating under a Special Permit related to integrity assessment and repairs? (If Yes, provide details) (SRN.AR-SP.SP.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**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. CRM Roles and Responsibilities** Have there been any revisions or changes to the CRM roles and responsibilities or staffing levels as a result of any AOCs or emergencies in the last 5 years? (Provide details) (SRN.CR-CRMRR.RR.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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**Screening - CR - Alarm Management**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Control Room Alarms & Logging Process** Have changes 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.LOGGING.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.CHGMGMT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Operating Experience**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Operating Experience** What changes, if any, have been made to the CRM procedures in the last 5 years? (SRN.CR-CRMEXP.OPEREXP.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - CRM Training**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Controller Training** What controller training program updates or improvements were made as 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 (Non-CPM)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Leak Detection System - Method (Non-CPM)** What non-CPM leak detection methods/systems are in place? (SRN.CR-LD.LEAKDETMETHOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Leak Detection - Replaced Components (Non-CPM)** Where non-CPM pipeline leak detection systems components or devices have been replaced or added in the last 5 years, has the potential impact been evaluated and documented? (If Yes, provide details) (SRN.CR-LD.LDREPLACE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - CR - Leak Detection (CPM)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Leak Detection System - Method (CPM)** What CPM methods/systems are in place? (SRN.CR-CPM.LEAKDETMETHOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Leak Detection - Replaced Components (CPM)** Where CPM leak detection systems components or devices have been replaced or added in the last 5 years, has the potential impact been evaluated and documented? (If Yes, provide details) (SRN.CR-CPM.LDREPLACE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Biofuels**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Biofuels** What biofuels specific standards apply to the design and construction of this biofuels pipeline? (SRN.DC-BIO.BIO.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) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Construction - Pump Stations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Construction - Pump Stations** What pump station construction activities are planned to occur within the next six months? (provide details) (SRN.DC-COCMP.PUMPSTA.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Construction Weld Inspection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Construction - Weld Inspection** For any recent construction activities, what was the nominal weld failure rate and how was it addressed? (SRN.DC-WELDINSP.WELDINSP.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Construction Welder Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Construction - Welder Qualification** For recent construction projects, what was the approximate weld rejection rate (related to welder qualification)? (SRN.DC-WELDERQUAL.WELDERQUAL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Construction Welding Procedures**

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

**Screening - DC - Design**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Design** Have there been any pipeline design process changes in the last 5 years to ensure that all appropriate design requirements from Part 195 and Industry Standards (for line pipe, facilities, equipment, components, etc.) are followed? (provide details) (SRN.DC-DN.DESIGN.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Leak Detection Design** Will the operations of the new pipeline utilize a SCADA system from a control room, and is a CPM (computational monitoring system) leak detection system planned? (SRN.DC-DN.LDDESIGN.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Maintenance and Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Maintenance and Operations** 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 Tests** What pressure tests related to O&M construction projects are planned to occur within the next six months on the pipeline or pipeline components? (provide details) (SRN.DC-PT.PRESSURETEST.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - DC - Regulated Rural Gathering Lines**

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**Screening - DC - Low Stress Rural Pipelines**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Low Stress Pipelines in Rural Areas** What processes have been established for the design and construction of low stress pipelines in rural areas? (SRN.DC-LS.RURALLOWSTRESS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Training and Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Training and Qualification** What processes are in place to ensure that persons conducting O&M construction related inspections have been trained and are qualified (non-covered tasks)? (SRN.DC-TQ.TQ.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - DC - Training and Qualification (OQ)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Training and Qualification (OQ)** What OQ program covered tasks are identified for O&M construction projects? (SRN.DC-TQOQ.TQOQ.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TDC - New Breakout Tanks (API 650) - Regulatory Requirements**

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**Screening - TDC - New Breakout Tanks (API 620 Low Pressure) - Regulatory Requirements**

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**Screening - TDC - New Breakout Tanks (API 2510 High Pressure)**

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**Screening - TDC - New Breakout Tanks (API 12F Shop-Fabricated)**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. New Breakout Tanks (API 12F Shop-Fabricated)** Are any new shop fabricated (API Spec 12F) breakout tank(s) being planned/constructed? (SRN.TDC-12F.TK12F.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - TDC - New Tank Piping - Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. New Tank Piping - Construction** What new tank piping, manifolds, and other related piping are being planned in conjunction with any new breakout tank(s) construction? (SRN.TDC-TKPIPING.TKPIPING.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - EP - Emergency Planning OPA**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Emergency Planning OPA** What emergency events (or drills if not actual events) have occurred in the last 5 years that required activation of a facility response plan? (provide details) (SRN.EP-EPO.EPACTIVATE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - EP - Emergency Response Biofuels**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Emergency Response - Biofuels** If this is a biofuels pipeline, is emergency response for the pipeline and facilities, including any biofuels elements, incorporated into the facility response plan? (provide details) (SRN.EP-ERB.BIOFUELS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - EP - Emergency Response Liquids**

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Release Volumes - Liquids** Have any releases exceeded the worst case scenario volumes contained in the Facility Response Plan (OPA 90 plan)? (SRN.EP-ERL.RELEASEVOL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - EP - Failure & Accident Investigation**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Failure Investigations** Discuss with the operator their program to track and investigate failures. (SRN.EP-FAI.FAILUREINVEST.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - EP - Emergency Training of Personnel**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Emergency Response Training Revisions** What revisions to emergency response training have been made in the last 5 years due to deficiencies identified during a drill, simulated emergency, or an actual incident? (SRN.EP-ETR.EPTRAIN.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - FS - Tanks and Storage - Inspection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Tanks and Storage - Inspection** What are the types of breakout tank deficiencies that have been found as a result of inspections over the last 5 years? (SRN.FS-TSAPIINSPECT.TANKINSP.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - FS - Facilities General**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Facilities General** Have any deficiencies been found regarding facilities protection (including signage, unauthorized entry, ignition source control, and fire protection) in the last 5 years? (SRN.FS-FG.FACILGENERAL.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - FS - Pump Stations**

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**Screening - FS - Tanks and Storage**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Tank Construction - Past** Have any deficiencies been found regarding tank operations in the last 5 years? (SRN.FS-TS.CONSTBOPAST.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Tank Overfill Protection** What is the process for ensuring that breakout tank overfill protection, safety devices, and emergency shutdowns are installed where needed and inspected? (SRN.FS-TS.OVERFILL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Pressurized Breakout Tanks** Where there are pressurized breakout tanks containing highly volatile liquids (HVLs), how are these treated differently? (SRN.FS-TS.BOHVL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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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 IMP processes and procedures since the last IMP-focused PHMSA inspection. (SRN.IM-HC.IMPLANMOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Idle 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 - Information Analysis**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Spatial Relationships within Information Analysis** On a spatial basis, what interrelationships between datasets have been analyzed and what insights have been gained? (SRN.IM-INFOAN.INFOAN.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - IM - Risk Analysis**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Identification of Specific Threats** What, if any, specific threats have been identified through Risk Analysis that require specific ILI tools other than MFL and deformation/dent tools to be used or other assessment methods to be used on the pipeline in the last 5 years? (SRN.IM-RA.ILINONMFLDEF.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Risk Analysis - ROW Information Management** How is the information gathered (related to potential excavation damage) during pipeline patrols, surveillance, and monitoring analyzed and used by the integrity management information / risk analysis? (SRN.IM-RA.INFOMGMT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Tracking of "Near Misses"** Are "near misses" tracked, and if so, how are they defined, reviewed and potentially incorporated into revised procedures or revised programs? (SRN.IM-RA.NEARMISS.S)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IMP Reassessment Intervals** What is the current reassessment method and interval for this pipeline, and how is it justified? (SRN.IM-CA.REASSESSINTRVL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - IM - Preventive and Mitigative Measures**

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**Screening - IM - Facilities**

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**Screening - IM - Quality Assurance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IM Performance Metrics** What are the methods employed to measure the Integrity Management Program's effectiveness? (SRN.IM-QA.PERFMETRICS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Biofuels**

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**Screening - MO - Liquid Conversion**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Liquid Conversion to Part 195 Service** What pipelines or pipeline segments have undergone a conversion to Part 195 service in the last 5 years? (provide details) (SRN.MO-LC.195CONV.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Liquid Pipeline Abnormal Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Liquid Pipeline - Abnormal Operations** What abnormal operations has the pipeline experienced in the last 5 years and how were lessons learned incorporated? (SRN.MO-ABNORMAL.ABPROCESS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Liquid Pipeline MOP**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Liquid Pipeline - MOP Changes** If there have been any changes in the pipeline MOP in the last 5 years, what was the nature of the changes? (SRN.MO-LOMOP.MOPCHGS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - MO - Liquid Pipeline Maintenance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. O&M - Maintenance Manual Modifications** What changes have been made to the pipeline maintenance program in the last 5 years? (SRN.MO-LM.OMPLANMOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Liquid Pipeline Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Tracking of "Near Misses"** Are "near misses" tracked, and if so, how are they defined, reviewed and potentially incorporated into revised procedures or revised programs? (SRN.IM-RA.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 Operations 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-LO.OMPLANMOD.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Abandoned Pipelines or Segments** Describe any portion(s) of the pipeline that are currently considered "abandoned." (SRN.MO-LO.ABANDONEDPIPE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Regulated Rural Gathering Pipelines** What, if any, Regulated Rural Gathering pipelines are included in this inspection? (Provide description) (SRN.MO-LO.REGRURALGATHER.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Idle 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 - MO - Liquid Pipeline Overpressure Protection**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Liquid Pipeline - Overpressure Protective Devices** Have any pressure limiting device settings or overpressure safety device settings been changed for the pipeline system in the last 5 years? (please describe) (SRN.MO-LMOPP.OVERPRESSURE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Operational Restrictions** Is the pipeline system or any system components currently, or in the last 5 years, operated under any operational restrictions (for example, reduced operational pressure)? (please describe) (SRN.MO-LMOPP.OPRNLRESTRICT.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. MOP Exceedances** Have there been any MOP exceedances, excluding during startups and shutdowns, in the last 5 years? (please describe) (SRN.MO-LMOPP.MOPEXCEED.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Liquid Pipeline Startup and Shutdown Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. MOP Exceedances During Startup/Shutdown** Have there been any MOP exceedances or leaks in the last 5 years resulting from startups or shutdowns? (please describe) (SRN.MO-LOOPER.MOPEXCEED.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Low-Stress Rural Pipelines**

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**Screening - MO - ROW Markers, Patrols, Monitoring and Analysis**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. ROW Issues** What, if any, issues have occurred in the last 5 years regarding pipeline ROW monitoring, marking, 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. GOM Exposed Underwater Pipeline** What issues have been discovered in the last 5 years regarding the GOM pipeline that has the potential of being exposed or a hazard to navigation? (SRN.MO-RW.GOMEXPOSED.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - MO - Extreme Weather**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Extreme Weather Inspection** Has the operator experienced any extreme weather events or natural disasters that could affect their pipelines in the last 5 years? (SRN.MO-EW.EW.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Screening - PD - Damage Prevention**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Idle 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Idle 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 - ROW Markers, Patrols, Monitoring**

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**Screening - PD - Facilities Signage and Security**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Facilities General** Have any deficiencies been found regarding facilities protection (including signage, unauthorized entry, ignition source control, and fire protection) in the last 5 years? (SRN.FS-FG.FACILGENERAL.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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**Screening - TD - External Corrosion - Breakout Tank Cathodic Protection**

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. 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 - External Corrosion - Cathodic Protection Monitoring**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. External Corrosion - Cathodic Protection Monitoring** What, if any, issues have been discovered during cathodic protection monitoring in the last 5 years? (provide details) (SRN.TD-CPMONITOR.CORRCNTRL.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. External Corrosion - Exposed Buried Pipe** Have any exposed portions of buried pipe been discovered in the last 5 years? (SRN.TD-CPEXPOSED.EXPOSEDPIPE.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, including breakout tank bottoms, in the last 5 years? (provide details) (SRN.TD-ICP.INTCORROSION.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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**Screening - TQ - Qualification of Personnel - Specific Requirements**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Personnel - Specific Requirements** What processes are in place to ensure that corrosion control supervisors and pipeline controllers are competent to perform their activities? (SRN.TQ-QU.SPECREQMNTS.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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**Screening - TQ - Training of Personnel - Dispatcher**

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**Screening - TQ - Training of Personnel - Emergency Response**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Training of Personnel - Emergency Response Improvements** What changes have been made in emergency response training as a result of drills and/or emergency responses in the last 5 years? (SRN.TQ-TRERP.IMPROVE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Screening - TQ - Training of Personnel - O and M Construction**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Training of Personnel - O&M Construction Improvements** What changes have been made in personnel training relating to weld NDT activities and procedures in the last 5 years? (SRN.TQ-TROMCONST.IMPROVE.S) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Time-Dependent Threats - Atmospheric Corrosion**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Atmospheric Corrosion Coating** Does the process give adequate instruction for the protection of pipeline against atmospheric corrosion? (TD.ATM.ATMCORRODECOAT.P) 195.402(c)(3) (195.581(a);195.581(b);195.581(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Atmospheric Corrosion Coating** Do records document adequate protection of pipeline against atmospheric corrosion? (TD.ATM.ATMCORRODECOAT.R) 195.589(c) (195.581(a);195.581(b);195.581(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Atmospheric Corrosion Monitoring** Does the process give adequate instruction for the inspection of aboveground pipeline segments exposed to the atmosphere? (TD.ATM.ATMCORRODEINSP.P) 195.402(c)(3) (195.583(a);195.583(b);195.583(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Atmospheric Corrosion Monitoring** Do records document inspection of aboveground pipe exposed to atmospheric corrosion? (TD.ATM.ATMCORRODEINSP.R) 195.589(c) (195.583(a);195.583(b);195.583(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Atmospheric Corrosion Monitoring** Is aboveground pipe that is exposed to atmospheric corrosion protected? (TD.ATM.ATMCORRODEINSP.O) 195.583(c) (195.581(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Cathodic Protection for Breakout Tanks** Does the process describe when cathodic protection must be installed on breakout tanks? (TD.CPBO.BO651.P) 195.402(c)(3) (195.563(d);195.565) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Cathodic Protection for Breakout Tanks** Does the process adequately detail when and how cathodic protection systems will be inspected on breakout tanks? (TD.CPBO.BO.P) 195.402(c)(3) (195.573(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Cathodic Protection for Breakout Tanks** Do records adequately document when and how cathodic protection systems were inspected on breakout tanks? (TD.CPBO.BO.R) 195.589(c) (195.573(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Cathodic Protection System Maps and Records (Breakout Tank)** Do maps and or records document cathodic protection system appurtenances that have been installed on breakout tanks that have been constructed, relocated, replaced, or otherwise changed? (TD.CPBO.MAPRECORDBO.R) 195.589(a) (195.589(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Cathodic Protection System Maps and Records** Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service? (TD.CP.MAPRECORD.R) 195.589(a) (195.589(b))  *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 Monitoring**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Interference Currents** Does the operator have a process in place to minimize detrimental effects of interference currents on its pipeline system and do the procedures for designing and installing cathodic protection systems provide for the minimization of detrimental effects of interference currents on existing adjacent metallic structures? (TD.CPMONITOR.INTFRCURRENT.P) 195.402(c)(3) (195.577(a);195.577(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Interference Currents** Do records document that the operator has an effective program in place to minimize the detrimental effects of interference currents on their pipeline system, and is minimizing detrimental effects of interference currents from their CP systems on other underground metallic structures? (TD.CPMONITOR.INTFRCURRENT.R) 195.589(c) (195.577(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. Cathodic Protection System Maps and Records** Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service? (TD.CP.MAPRECORD.R) 195.589(a) (195.589(b))  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Examination of Exposed Portions of Buried Pipe** Do records document that exposed buried piping was adequately examined for corrosion and deteriorated coating? (TD.CPEXPOSED.EXPOSEINSPECT.R) 195.589(c) (195.569) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Evaluation of Externally Corroded Pipe** Do records adequately document the evaluation of externally corroded pipe? (TD.CPEXPOSED.EXTCORRODEEVAL.R) 195.589(c) (195.587) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Evaluation of Internally Corroded Pipe** Do records document adequate evaluation of internally corroded pipe? (TD.ICP.EVALUATE.R) 195.589(c) (195.587) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Internal Corrosion Lining of Breakout Tanks** Do records document the adequate installation of breakout tank bottom linings? (TD.ICP.BOLINING.R) 195.589(c) (195.579(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Time-Dependent Threats - Special Permits**

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**Training and Qualification - OQ Protocol 9**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Covered Task Performance** Verify the qualified individuals performed the observed covered tasks in accordance with the operator's procedures or operator approved contractor procedures. (TQ.PROT9.TASKPERFORMANCE.O) 195.501(a) (195.509(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Training and Qualification - Operator Qualification**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Operator Qualification Plan and Covered Tasks** Is there an OQ plan that includes covered tasks, and the basis used for identifying covered tasks? (TQ.OQ.OQPLAN.P) 195.505(a) (195.501(b);195.503) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. Abnormal Operating Conditions** Do records indicate evaluation of qualified individuals for recognition and reaction to AOCs? (TQ.OQ.ABNORMAL.R) 195.507(a) (195.507(b);195.503) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Controller Training** Is controller training and qualification documented? (TQ.QU.CONTROLLER.R) 195.446(h) (195.507(a);195.507(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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

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**Training and Qualification - Training of Personnel - Dispatcher**

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**Training and Qualification - Training of Personnel - Emergency Response**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Emergency Response Training - Conditions** Are conditions that are likely to cause emergencies, their consequences, and appropriate corrective action identified in the ER training? (TQ.TRERP.ERCONDITIONS.P) 195.403(a)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Training Records for Emergency Response Personnel** Is training for emergency response personnel documented? (TQ.TRERP.ERTRAININGRECORDS.R) 195.404(c) (195.403(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Emergency Response Personnel Skills and Knowledge** Do emergency response personnel demonstrate adequate skills and knowledge? (TQ.TRERP.ERTRAINING.O) 195.403(a) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Emergency Response Training Performance Review** Has review of emergency response personnel performance at the required frequency been documented? (TQ.TRERP.ERTRAININGREVIEW.R) 195.404(c) (195.403(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |

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**Training and Qualification - Training of Personnel - O and M Construction**

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**Section 114 - Section 114 - Hazardous Liquid**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. 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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**Section 114 - Section 114 - Small LPG**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Generic Question - Special Permission** Generic question - please provide context in result notes. (GENERIC.GENERICSP.GENRECORD.R) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Generic Question - Special Permit** Generic question - please provide context in result notes. (GENERIC.GENERICSP.GENOBSERVE.O) | | | | | | | | |  |  |  |  |  |  |  |  | |

**Generic Questions - Generic Questions**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Generic Question** Generic question - please provide context in result notes. (GENERIC.GENERIC.GENRECORD.R) | | | | | | | | |  |  |  |  |  |  |  |  | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Generic Question** Generic question - please provide context in result notes. (GENERIC.GENERIC.GENOBSERVE.O) | | | | | | | | |  |  |  |  |  |  |  |  | |

**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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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.