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

1. Risk Based Alternative to Pressure Testing *If applicable per 195.303, is a process in place to review risk classification of piping not hydrostatically tested (Risk Classification A)?* (AR.PTIRB.RISKBASEDALT.P) (detail) 195.303(g)

Notes

2. Risk Based Alternative to Pressure Testing *If applicable per 195.303, from a review of selected records, has risk classification of piping not hydrostatically tested been reviewed, as required?* (AR.PTIRB.RISKBASEDALT.R) (detail) 195.303(h) (195.303(g))

Notes

Assessment and Repair - Repair Criteria (HCA)

1. Timely Discovery *Does the integrity assessment process properly define discovery and the required time frame for anomalies in a pipeline segment that can affect an HCA?* (AR.RCHCA.DISCOVERY.P) (detail) 195.452(f)(4) (195.452(h)(2))

Notes

2. Timely Discovery *From the review of the results of selected ILI and remediation projects, did discovery of all anomalies occur promptly, but no later than 180 days of completion of the assessment?* (AR.RCHCA.DISCOVERY.R) (detail) 195.452(h)(2)

Notes

3. Inclusion of All IM Repair Criteria *Does process have criteria for remedial action to address integrity issues raised by the assessment methods and information analysis?* (AR.RCHCA.IMPRC.P) (detail) 195.452(f)(4) (195.452(h)(4))

Notes

4. Inclusion of All IM Repair Criteria *Do records demonstrate that prompt action is taken to address all anomalous conditions discovered through the integrity assessment or information analysis?* (AR.RCHCA.IMPRC.R) (detail) 195.452(l)(1)(ii) (195.452(f)(4))

Notes

5. Inclusion of All IM Repair Criteria *From an observation of a repair, was it remediated in accordance with its categorized repair schedule?* (AR.RCHCA.IMPRC.O) (detail) 195.452(h)(4)

Notes

6. IMP Repair *Does the process require that repairs be performed in a manner to ensure the integrity of the pipeline until the next scheduled assessment?* (AR.RCHCA.IMREPAIR.P) (detail) 195.452(f)(4) (195.452(h)(1))

Notes

7. Pressure Reduction *From the review of the results of ILI and remediation projects, was an acceptable pressure reduction promptly taken for each Immediate Repair condition or when a repair schedule could not be met?* (AR.RCHCA.PRESSREDUCE.R) (detail) 195.452(l)(1)(ii) (95.404(a); 195.404 (b); 195.452(h)(1)(ii); 195.452(h)(4)(i); 195.55(a))

Notes

8. Categorization of Defects *From the review of the results of integrity assessments and remediation projects, were there any defects that were not properly categorized?* (AR.RCHCA.DEFECTCAT.R) (detail) 195.452(l)(1)(ii) (195.452(h)(4))

Notes

9. Pressure Reduction *Does the process for pressure reduction meet the code requirements?* (AR.RCHCA.PRESSREDUCE.P) (detail) 195.452(f)(4) (195.428; 195.452(h)(1)(i); 195.452(h)(1)(ii))

Notes

10. IM Schedule *Do records demonstrate that the operator has met the schedule for remediating a condition in accordance with 195.452(h)(3)?* (AR.RCHCA.IMSCHEDULE.R) (detail) 195.452(l)(1)(ii) (195.452.(h)(3))

Notes

11. Timely Remediation *From the review of the results of selected ILI and remediation projects, were defects in segments that could affect an HCA remediated or dispositioned within the applicable mandatory time limits of 195.452(h)(4)?* (AR.RCHCA.SCHEDULEIMPL.R) (detail) 195.452(l)(1)(ii) (195.452(h)(4))

Notes

Assessment and Repair - Repair Criteria (O and M)

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

Notes

2. Repair Criteria in Non-HCA Segments *From the review of the results of selected ILI and remediation projects, were conditions repaired that posed a threat to pipeline integrity on segments that do not affect an HCA?* (AR.RCOM.REPAIRNONHCA.R) (detail) 195.585(a) (195.585(b); 195.422(a); 195.422(b))

Notes

3. Remedial Actions (OM) *Do the performance and documentation of remediation meet procedural requirements for repairs in both HCA and non-HCA?* (AR.RCOM.REMEDIATIONOM.O) (detail) 195.422(a) (195.422(b); 195.402(a); 195.402(c)(14); 195.569; 195.579(c))

Notes

Assessment and Repair - External Corrosion Direct Assessment (ECDA)

1. ECDA Plan *Has an ECDA plan and processes been prepared for conducting ECDA?* (AR.EC.ECDAPLAN.P) (detail) 195.588(b)(1) (195.588(b)(2); 195.588(b)(3); 195.588(b)(4); 195.588(b)(5))

Notes

2. ECDA Pre-Assessment *Do records indicate that the ECDA pre-assessment process complies with NACE SP0502 Section 3 and 195.588?* (AR.EC.ECDAPREASSESS.R) (detail) 195.589(c) (195.588(b)(2))

Notes

3. ECDA Indirect Examination *Do records indicate that the ECDA indirect examination process complies with NACE SP0502 Section 4 and 195.588?* (AR.EC.ECDAINDIRECT.R) (detail) 195.589(c) (195.588(b)(3))

Notes

4. ECDA Indirect Examination *Was the indirect examination performed in accordance with the operator's procedures and 195.588(b)(3)?* (AR.EC.ECDAINDIRECT.O) (detail) 195.588(c) (195.452(j)(5)(iii))

Notes

5. ECDA Direct Examination *Do records indicate that excavations and data collection were performed in accordance with NACE SP0502, Sections 5 and 6.4.2?* (AR.EC.ECDADIRECT.R) (detail) 195.589(c) (195.588(b)(4))

Notes

6. ECDA Direct Examination *Was the direct examination performed in accordance with requirements?* (AR.EC.ECDADIRECT.O) (detail) 195.588(b)(4) (195.452(j)(5)(iii))

Notes

7. Post Assessment *Do records indicate that requirements were met for post assessment?* (AR.EC.ECDAPOSTASSESS.R) (detail) 195.589(c) (195.588(b)(5); 195.452(j)(3); 195.452(j)(4))

Notes

8. ECDA Change Control *Do records indicate that the operator established and implemented criteria and internal notification procedures for any changes in the ECDA Plan?* (AR.EC.ECDAPLANMOC.R) (detail) 195.588(c) (195.588(b)(4)(iii))

Notes

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

1. Qualification of Personnel Who Evaluate ILI Results and Information Analysis *Does the process specify qualification requirements for personnel who review and evaluate ILI assessment results and information analysis?* (AR.IL.ILIREVIEWQUAL.P) (detail) 195.452(f)(8) (195.452(g))

Notes

2. Qualification of Personnel Who Evaluate ILI Results and Information Analysis *Does the process demonstrate that personnel who review and evaluate ILI assessment results and information analysis are qualified?* (AR.IL.ILIREVIEWQUAL.R) (detail) 195.452(l)(1)(ii) (195.452(f)(8); 195.452(g))

Notes

3. Qualification of Personnel Performing ILI *Does the process identify the qualification requirements for personnel who perform ILI covered tasks?* (AR.IL.ILIIMPLPERQUAL.P) (detail) 195.505(b)

Notes

4. Qualification of Personnel Performing ILI *Do records demonstrate that personnel who perform ILI covered tasks are qualified?* (AR.IL.ILIIMPLPERQUAL.R) (detail) 195.505(b)

Notes

5. ILI Specifications *Do processes assure complete and adequate vendor ILI specifications?* (AR.IL.ILISPECS.P) (detail) 195.452(f)(4) (195.452(h))

Notes

6. IMP Assessment Methods *Do processes specify the assessment methods that are appropriate for the pipeline specific integrity threats?* (AR.IL.METHOD.P) (detail) 195.452(f)(5) (195.452(j)(5))

Notes

7. IMP Assessment Methods *Are the assessment methods shown in the baseline and/or continual assessment plan appropriate for the pipeline specific integrity threats?* (AR.IL.METHOD.R) (detail) 195.452(l)(1)(ii) (195.452(f)(5); 195.452(j)(5))

Notes

8. IMP Baseline and/or Continual Assessments Prioritized Assessment Schedule *Does the continual assessment plan include a prioritized schedule in accordance with §195.452 (d) that is based on the risk factors required by §195.452(e)?* (AR.IL.ASSESSSCHEDULE.P) (detail) 195.452(f)(2) (195.452(c); 195.452(d); 195.452(e))

Notes

9. IMP Baseline and/or Continual Assessments Prioritized Assessment Schedule *Does a review of records indicate that continual assessments are implemented as specified in the plan?* (AR.IL.ASSESSSCHEDULE.R) (detail) 195,452(l)(1)(ii) (195.452(b)(5); 195.452(c); 195.452(d); 195.452(f)(2); 195.452(f)(5))

Notes

10. Validation of ILI Results *Does the process provide for validating ILI results?* (AR.IL.ILIVALIDATE.P) (detail) 195.452(f)(4) (195.452(b)(6))

Notes

11. Validation of ILI Results *Does a review of records for validating ILI assessment results demonstrate that the process was implemented appropriately?* (AR.IL.ILIVALIDATE.R) (detail) 195.452(l)(1)(ii) (195.452(b)(6))

Notes

12. Integration of ILI Results with Other Information *Is the process for integrating ILI results with other information adequate?* (AR.IL.ILIINTEGRATION.P) (detail) 195.452(f)(3) (195.452(g))

Notes

13. Integration of ILI Results with Other Information *Did the operator integrate other data/information when evaluating tool data/results in the records reviewed?* (AR.IL.ILIINTEGRATION.R) (detail) 195.452(l)(1)(ii) (195.452(g))

Notes

14. ILI Acceptance Criteria *Were survey acceptance criteria defined to ensure a successful ILI tool run?* (AR.IL.ILIACCEPCRITERIA.P) (detail) 195.452(f)(4) (195.452(5)(5)(i))

Notes

15. ILI Acceptance Criteria *Do records demonstrate that the selected ILI tool run met the defined ILI tool run acceptance criteria?* (AR.IL.ILIACCEPCRITERIA.R) (detail) 195.452(l)(1)(ii) (195.452(c)(1)(i)(A))

Notes

16. Quality of ILI Data Analysis *Do records demonstrate that the ILI data and other information were adequate to identify anomalies requiring remediation?* (AR.IL.ILIANALYSIS.R) (detail) 195.452(l)(1)(ii) (195.452(h)(1); 195.452(g))

Notes

17. Integrity Assessments that Were Not performed as Scheduled or Within Required Timeframes *Do records demonstrate that the performance of integrity assessments had been delayed such that a schedule or required timeframes was exceeded?* (AR.IL.ILIDELAY.R) (detail) 195.452(l)(1)(ii) (195.452(j)(1))

Notes

18. Industry Practices *Does the process incorporate recognized industry practices, or an acceptable alternative method, in performing ILI integrity assessments?* (AR.IL.ILISTANDARD.P) (detail) 195.452(b)(6)

Notes

19. Industry Practices *Do records demonstrate that recognized industry practices, or an acceptable alternative method, have been incorporated in performing ILI integrity assessments?* (AR.IL.ILISTANDARD.R) (detail) 195.452(l)(1)(ii) (195.452(b)(6))

Notes

20. Compliance with ILI Procedures *Have the ILI procedures been followed?* (AR.IL.ILIIMPLEMENT.O) (detail) 195.452(b)(5)

Notes

Assessment and Repair - Other Technology

1. Other Technology Process *If "Other Technologies" are used, has a process been developed?* (AR.OT.OTPLAN.P) (detail) 195.452(f)(5) (195.452(c)(1)(i)(D); 195.452(j)(5)(iv); 195.452(h)(4))

Notes

2. Other Technology Process *From the review of the results of selected integrity assessments, do records show that the assessment was performed in accordance with procedures and vendor recommendations?* (AR.OT.OTPLAN.R) (detail) 195.452(l)(1)(ii) (195.452(j)(5)(iv); 195.452(f)(5))

Notes

3. Other Technology Process *Has the process for the use of "Other Technology" been followed?* (AR.OT.OTPLAN.O) (detail) 195.452(j)(5)(iv)

Notes

4. Categorization of Defects *From the review of the results of selected integrity assessments, were defects identified and categorized within 180 days or other applicable timeframe?* (AR.OT.OTDEFECTCAT.R) (detail) 195.452(l)(1)(ii) (195.452(f)(4); 195.452(h)(2))

Notes

5. Qualification Requirements for Personnel Reviewing Results of Other Technology Integrity Assessments *Does the process specify qualification requirements for personnel who review the results of an integrity assessment and information analysis using Other Technology?* (AR.OT.ASSESSMENTREVIEW.P) (detail) 195.452(f)(8) (195.452(j)(5))

Notes

6. Qualification Requirements for Personnel Reviewing Results of Other Technology Integrity Assessments *From the review of the results of selected integrity assessments, were personnel who review the results of an integrity assessment and information analysis using Other Technology qualified?* (AR.OT.ASSESSMENTREVIEW.R) (detail) 195.452(l)(1)(ii) (195.452(f)(8))

Notes

Assessment and Repair - Integrity Assessment Via Pressure Test

1. Test Acceptance Criteria and Procedures *Were test acceptance criteria and process adequate?* (AR.PTI.PRESSTESTACCEP.P) (detail) 195.402(a) (195.304; 195.305; 195.306; 195.307; 195.308)

Notes

2. Quality and Effectiveness of Corrosion Control Program *Does the process require that the effectiveness of the corrosion control program be evaluated when using pressure testing as an integrity assessment?* (AR.PTI.PRESSTESTCORR.P) (detail) 195.452(f)(3) (195.452(g)(3))

Notes

3. Quality and Effectiveness of Corrosion Control Program *From the review of corrosion control records, was the corrosion control program proven to be effective when pressure testing was the integrity assessment method used?* (AR.PTI.PRESSTESTCORR.R) (detail) 195.589(c) (195.452(f)(3); 195.452(g)(3))

Notes

4. Conduct of Pressure Tests *From the review of the results of pressure tests, do the test records validate the pressure test?* (AR.PTI.PRESSTESTRESULT.R) (detail) 195.452(l)(1)(ii) (195.452(f)(2); 195.452(c))

Notes

5. Conduct of Pressure Tests *Was the pressure test conducted in accordance with procedures?* (AR.PTI.PRESSTESTRESULT.O) (detail) 195.452(j)(5)(ii) (195.452(c)(1)(i)(b))

Notes

Assessment and Repair - Repair Criteria

1. Analysis of Entire Pipeline Integrity when Evaluating the Integrity of each Pipeline Segment that Can Affect HCAs *Does the process require the evaluation of all available information about the integrity of the entire pipeline and the consequences of failure when evaluating the integrity of each pipeline segment that can affect an HCA?* (AR.RC.INTEGRATION.P) (detail) 195.452(f)(3) (195.452(g))

Notes

2. Analysis of All Available Information When Evaluating the Integrity of each Pipeline Segment that Can Affect HCAs *From the review of the results of ILI and remediation projects, were all available information considered about the integrity of the entire pipeline and consequences of failure when evaluating the integrity of each pipeline segment that can affect an HCA?* (AR.RC.INTEGRATION.R) (detail) 195.452(l)(1)(ii) (195.452(g))

Notes

3. Remedial Actions (IM) *Are anomaly remediation and documentation of remediation adequate?* (AR.RC.REMEDIATION.O) (detail) 195.452(h) (195.402(a); 195.402(c)(14); 195.422(a); 195.569; 195.589(c))

Notes

Assessment and Repair - Repair Methods and Practices

1. Safety While Making Repair *Does the process ensure that repairs are made in a safe manner and are made so as to prevent damage to persons and property?* (AR.RMP.SAFETY.P) (detail) 195.402(c)(14) (195.422(a))

Notes

2. Safety While Making Repair *Are repairs made in a safe manner and to prevent injury to persons and/or property damage?* (AR.RMP.SAFETY.O) (detail) 195.422(a) (195.402(c)(14))

Notes

3. Permissible Repair Methods *Does the process identify permissible repair methods for each type of defect?* (AR.RMP.METHOD.P) (detail) 195.402(c)(3) (195.452(h)(1); 195.585)

Notes

4. Permissible Repair Methods *From the review of the results of integrity assessment and remediation projects, were all repairs performed in accordance with procedures and applicable sections of 49 CFR Part 195?* (AR.RMP.METHOD.R) (detail) 195.404(c)(1) (195.422(a); 195.422(b); 195.452(h)(1))

Notes

5. Qualification of Personnel Performing Pipeline Repair *From the review of the results of integrity assessment and remediation projects, were personnel performing repairs, other than welding, qualified for the task they performed?* (AR.RMP.REPAIRQUAL.R) (detail) 195.505(b) (195.507(a); 195.505(c); 195.452(h)(1))

Notes

6. Repair Records *From the review of the results of integrity assessment and remediation projects and/or field observation, do repair records document all information needed to understand the conditions of the pipe and its environment and provide the information needed to support the Integrity Management risk model?* (AR.RMP.PIPECONDITION.R) (detail) 195.404(c)(1) (195.404(c)(2))

Notes

7. Replacement Components *From the review of the results of integrity assessment and remediation projects and/or field observation, were components that were replaced constructed to the same or higher standards as the original component?* (AR.RMP.REPLACESTD.R) (detail) 195.422(b)

Notes

8. Pipe movements *From a review of selected records, were pipeline movements performed in accordance with 195.424?* (AR.RMP.PIPEMOVE.R) (detail) 195.424(a) (195.424(b); 195.424(c))

Notes

9. Welder Qualification *From the review of the results of integrity assessment and remediation projects, were repairs requiring welding performed by qualified welders using qualified welding procedures?* (AR.RMP.WELDERQUAL.R) (detail) 195.214(a) (195.214(b); 195.222(a); 195.222(b); 195.452(h)(1))

Notes

10. Repair of Weld Defects *From the review of the results of integrity assessment and remediation projects, were weld defects repaired in accordance with §195.226 or §195.230?* (AR.RMP.WELDQUAL.R) (detail) 195.226(a) (195.226(b); 195.226(c); 195.230(a); 195.230(b); 195.230(c); 195.452(h)(1))

Notes

11. Inspection of Welds *From the review of the results of integrity assessment and remediation projects, were welds inspected and examined in accordance with 195.228 or 195.234?* (AR.RMP.WELDINSPECT.R) (detail) 195.228(a) (195.228(b);195.234(a); 195.234(b); 195.234(c); 195.234(d); 195.234(e; 195.452(h)(1))

Notes

12. Crack Repair Criteria *If cracks, SCC, or crack like features to be a threat on pipeline segments, have criteria been developed for remedial actions to address integrity issues raised by the assessment method?* (AR.RMP.CRACKREMEDIATION.P) (detail) 195.452(f)(3) (195.452(g))

Notes

13. Crack Repair Criteria *If the IM risk assessment and integrity assessments found cracks, SCC, or crack like features cracking to be a threat on pipeline segments, have remedial actions been taken to address integrity issues when assessment criteria have been exceeded?* (AR.RMP.CRACKREMEDIATION.R) (detail) 195.452(l)(1)(ii) (195.452(f)(3))

Notes

14. Non-Destructive Examination (NDE) of Pipeline for Cracks, SCC, or Crack Like Features When Exposed for Repair *Does the process require that when a pipeline segment that meets the conditions for cracks, SCC, or crack like features is exposed an NDE method must be employed to evaluate for cracking?* (AR.RMP.CRACKNDE.P) (detail) 195.452(f)(4)

Notes

15. Non-Destructive Examination (NDE) of Pipeline for Cracks, SCC, or Crack Like Features When Exposed for Repair *Do records indicate that when a pipeline segment that meets the conditions for cracks, SCC, or crack like features were exposed an NDE method was employed to evaluate for cracking?* (AR.RMP.CRACKNDE.R) (detail) 195.452(l)(1)(ii) (195.452(f)(4); 195.404(c))

Notes

16. Non-Destructive Testing of Pipeline for Cracks, SCC, or Crack Like Features When Exposed for Repair *From an observation at an excavation site with suspected cracks, SCC, or crack like features, did the operator's personnel perform an NDE of the segment?* (AR.RMP.CRACKNDE.O) (detail) 195.452(h)(1)

Notes

Assessment and Repair - Special Permits

1. Special Permits - ILI *If a pipeline operates under a special permit, has the process been modified to incorporate the requirements of the permit for required ILI assessments?* (AR.SP.ILISP.P) (detail) 190.341(d)

Notes

2. Special Permits - ILI *If a pipeline is operated under a special permit, from a review of selected records, were required ILI assessments performed?* (AR.SP.ILISP.R) (detail) 190.341(d)

Notes

3. Special Permits - Repair *If a pipeline is operated under a special permit, has the process been modified to incorporate the requirements of the permit for required repairs?* (AR.SP.REPAIRSP.P) (detail) 190.341(d)

Notes

4. Special Permits - Repair *If a pipeline is operated under a special permit, from a review of selected records, were required repairs performed?* (AR.SP.REPAIRSP.R) (detail) 190.341(d)

Notes

CRM, SCADA, and Leak Detection - General

*** 1. Control Room Management Criteria** *Does the process adequately address criteria by which the operator determines which of its facilities are control rooms?* (CR.CRMGEN.CRMCRITERIA.P) (detail) 195.446(a)

Notes

*** 2. Control Room Management** *Are CRM procedures formalized and controlled?* (CR.CRMGEN.CRMMGMT.P) (detail) 195.446(a)

Notes

*** 3. Control Room Management** *Were procedures approved, in place, and implemented on or before the regulatory deadline?* (CR.CRMGEN.CRMIMPLEMENT.R) (detail) 195.446(a)

Notes

*** 4. Control Room Management** *Are procedures readily available to controllers in the control room?* (CR.CRMGEN.CRMPROCLOCATION.O) (detail) 195.446(a)

Notes

CRM, SCADA, and Leak Detection - Roles and Responsibilities

*** 1. Roles and Responsibilities** *Are there clear processes to describe each controller's physical domain of responsibility for pipelines and other facility assets?* (CR.CRMRR.RESPONSIBLE.P) (detail) 195.446(b)(1)

Notes

*** 2. Roles and Responsibilities** *Are there provisions in place to assure that only qualified individuals may assume control at any console/desk?* (CR.CRMRR.QUALCONTROL.P) (detail) 195.446(b)(1)

Notes

*** 3. Roles and Responsibilities** *If the physical domain of responsibility periodically changes, has a clear process been established to describe the conditions for when such a change occurs?* (CR.CRMRR.DOMAINCHANGE.P) (detail) 195.446(b)(1)

Notes

*** 4. Roles and Responsibilities** *Do processes address a controller's role during temporary impromptu (unplanned) changes in controller responsibilities?* (CR.CRMRR.RESPCHANGE.P) (detail) 195.446(b)(1)

Notes

*** 5. Roles and Responsibilities** *Do the defined roles and responsibilities require controllers to stay at the console to verify all SCADA commands that have been initiated are fulfilled, and that commands given via verbal communications are acknowledged before leaving the console for any reason?* (CR.CRMRR.COMMANDVERIFY.P) (detail) 195.446(b)(1)

Notes

*** 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) (detail) 195.446(b)(2)

Notes

*** 7. Overpressure Limits** *Are controllers aware of the current MOPs of all pipeline segments for which they are responsible, and have they been assigned the responsibility to maintain those pipelines at or below the MOP?* (CR.CRMRR.PRESSLIMITS.O) (detail) 195.446(b)(2)

Notes

*** 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) (detail) 195.446(b)(3)

Notes

*** 9. Control Center Evacuation** *Do processes specifically address the controller's responsibilities in the event the control room must be evacuated?* (CR.CRMRR.EVACUATION.P) (detail) 195.446(b)(3)

Notes

*** 10. Communication Failure** *Do processes specifically address the controller's responsibilities in the event of a SCADA system or data communications system failure impacting large sections of the controller's domain of responsibility?* (CR.CRMRR.COMMSYSFAIL.P) (detail) 195.446(b)(3)

Notes

*** 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) (detail) 195.446(b)(4) (195.446(c)(5))

Notes

*** 12. Shift Change Process - Documentation** *Do processes require that records document the hand-over of responsibility, document the time the actual hand-over of responsibility occurs, and the key information and topics that were communicated during the hand-over?* (CR.CRMRR.HANDOVERDOC.P) (detail) 195.446(b)(4) (195.446(c)(5))

Notes

*** 13. Shift Change Process - Documentation** *Are there records that document the hand-over of responsibility, document the time the actual hand-over of responsibility occurs, and the key information and topics that were communicated during the hand-over?* (CR.CRMRR.HANDOVERDOC.R) (detail) 195.446(b)(4) (195.446(c)(5))

Notes

*** 14. Shift Change Process - Overlap** *Do processes require the controllers to discuss recent and impending important activities ensuring adequate overlap?* (CR.CRMRR.HANDOVEROVERLAP.P) (detail) 195.446(b)(4)

Notes

*** 15. Shift Change Process - Handover Alternative** *When a controller is unable to continue or assume responsibility for any reason, do the shift hand-over processes include alternative shift hand-over actions that specifically address this situation?* (CR.CRMRR.HANDOVERALTERNATIVE.P) (detail) 195.446(b)(4)

Notes

*** 16. Shift Change Process - Unattended Consoles** *Has the operator established an adequate process for occasions when the console is left temporarily unattended for any reason?* (CR.CRMRR.UNATTENDCONSOLE.P) (detail) 195.446(b)(4)

Notes

*** 17. Shift Change Process - Console Coverage** *Do processes maintain adequate console coverage during shift hand-over?* (CR.CRMRR.CONSOLECOVERAGE.P) (detail) 195.446(b)(4)

Notes

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

*** 1. Change Management** *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) (detail) 195.446(c)(1)

Notes

2. SCADA Displays *Are there written processes to implement the API RP 1165 display standards to the SCADA systems that have been added, expanded, or replaced since August 1, 2012?* (CR.SCADA.DISPLAYCONFIG.P) (detail) 195.446(c)(1)

Notes

*** 3. SCADA Human Factors** *Has section 4 of API RP 1165 regarding human factors engineering been implemented?* (CR.SCADA.HUMANFACTORS.R) (detail) 195.446(c)(1)

Notes

*** 4. SCADA Display Hardware** *Has section 5 of API RP 1165 regarding display hardware been implemented?* (CR.SCADA.DISPLAYHARDWARE.R) (detail) 195.446(c)(1)

Notes

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

Notes

*** 6. SCADA Display Navigation** *Has section 7 of API RP 1165 regarding display navigation been implemented?* (CR.SCADA.DISPLAYNAVIGATION.R) (detail) 195.446(c)(1)

Notes

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

Notes

*** 8. SCADA Display Dynamics** *Has section 9 of API RP 1165 regarding display object dynamics been implemented?* (CR.SCADA.DISPLAYDYNAMICS.R) (detail) 195.446(c)(1)

Notes

*** 9. SCADA Control Selection** *Has section 10 of API RP 1165 control selection and techniques been implemented?* (CR.SCADA.CONTROLSELECTION.R) (detail) 195.446(c)(1)

Notes

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

Notes

*** 11. SCADA Impracticality** *If any/all applicable paragraph(s) of API RP 1165 have not been implemented, has it been demonstrated and documented that the unimplemented provisions are impractical for the SCADA system used?* (CR.SCADA.1165IMPRACTICAL.R) (detail) 195.446(c)(1)

Notes

*** 12. Setpoints** *Does the process adequately define safety-related points?* (CR.SCADA.SETPOINT.P) (detail) 195.446(c)(2) (195.406(b))

Notes

*** 13. Setpoints** *Do records indicate safety-related points have been adequately implemented?* (CR.SCADA.SETPOINT.R) (detail) 195.446(c)(2)

Notes

*** 14. Point-to-Point Verification** *Are there adequate processes to define and identify the circumstances which require a point-to-point verification?* (CR.SCADA.POINTVERIFY.P) (detail) 195.446(c)(2)

Notes

*** 15. Point-to-Point Verification** *Have required point-to-point verifications been performed?* (CR.SCADA.POINTVERIFY.R) (detail) 195.446(c)(2)

Notes

*** 16. Point-to-Point Verification Extent** *Are there adequate processes for the thoroughness of the point-to-point verification?* (CR.SCADA.POINTVERIFYEXTENT.P) (detail) 195.446(c)(2)

Notes

*** 17. Point-to-Point Verification Extent** *Do records demonstrate adequate thoroughness of the point-to-point verification?* (CR.SCADA.POINTVERIFYEXTENT.R) (detail) 195.446(c)(2)

Notes

*** 18. Point-to-Point Verification Extent** *Is there an adequate process for defining when the point-to-point verification must be completed?* (CR.SCADA.POINTVERFIYINTVL.P) (detail) 195.446(c)(2)

Notes

*** 19. Point-to-Point Verification Extent** *Do records indicate the point-to-point verification has been completed at the required intervals?* (CR.SCADA.POINTVERFIYINTVL.R) (detail) 195.446(c)(2)

Notes

*** 20. Internal Communication Plan** *Has an internal communication plan been established and implemented that is adequate to manually operate the pipeline during a SCADA failure/outage?* (CR.SCADA.COMMPLAN.P) (detail) 195.446(c)(3)

Notes

*** 21. Internal Communication Plan** *Has the internal communication plan been tested and verified for manual operation of the pipeline safely at least once each calendar year but at intervals not exceeding 15 months?* (CR.SCADA.COMMPLAN.R) (detail) 195.446(c)(3)

Notes

*** 22. Backup SCADA System** *Is there a backup SCADA system?* (CR.SCADA.BACKUPSCADA.O) (detail) 195.446(c)(4)

Notes

*** 23. Backup SCADA Development** *Has the use of the backup SCADA system for development work been defined?* (CR.SCADA.BACKUPSCADADEV.P) (detail) 195.446(c)(4)

Notes

*** 24. Backup SCADA Testing** *Is the backup SCADA system tested at least once each calendar year at intervals not to exceed 15 months?* (CR.SCADA.BACKUPSCADATEST.R) (detail) 195.446(c)(4)

Notes

*** 25. 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) (detail) 195.446(c)(4)

Notes

*** 26. Backup SCADA Adequacy** *If the back-up SCADA system is not designed to handle all the functionality of the main SCADA system, does the testing determine whether there are adequate procedures in place to account for displaced and/or different available functions during back-up operations?* (CR.SCADA.BACKUPSCADAADEQUACY.R) (detail) 195.446(c)(4)

Notes

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

Notes

*** 28. Backup SCADA Return to Primary** *Do procedures adequately address and test the logistics of returning operations back to the primary control room?* (CR.SCADA.BACKUPSCADARETURN.P) (detail) 195.446(c)(4)

Notes

*** 29. 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) (detail) 195.446(c)(4)

Notes

30. Overpressure Protection on Pressure Breakout Tanks *Does the process adequately test applicable SCADA controlled overpressure protection devices on pressurized breakout tanks?* (CR.SCADA.OVERPRESSTESTBO.P) (detail) 195.428(b)

Notes

31. Overpressure Protection on Pressure Breakout Tanks *Do records indicate adequate inspection and testing of overpressure protection devices on pressurized breakout tanks?* (CR.SCADA.OVERPRESSTESTBO.R) (detail) 195.404(a)(vii) (195.404(c)(3); 195.428(b))

Notes

32. Overfill Protection *Is an adequate process/procedure in place for testing applicable SCADA controlled overfill protection devices?* (CR.SCADA.OVERFILL.P) (detail) 195.428(d) (195.446(b); 195.446(c))

Notes

33. Overfill Protection *Do records indicate adequate inspection and testing of overfill protection systems?* (CR.SCADA.OVERFILL.R) (detail) 195.404(a)(vii) (195.404(c)(3); 195.428(d))

Notes

CRM, SCADA, and Leak Detection - Fatigue Management

*** 1. Fatigue Mitigation** *Does the fatigue mitigation process or procedures (plan) identify operator-specific fatigue risks?* (CR.CRMFM.FATIGUEMITIGATION.P) (detail) 195.446(d)

Notes

*** 2. Fatigue Risk Reduction** *Does the fatigue mitigation plan adequately address how the program reduces the risk associated with controller fatigue?* (CR.CRMFM.FATIGUERISKS.P) (detail) 195.446(d)

Notes

*** 3. Fatigue Quantification** *Do processes require that the potential contribution of controller fatigue to incidents and accidents be quantified during investigations?* (CR.CRMFM.FATIGUEQUANTIFY.P) (detail) 195.446(d)

Notes

*** 4. Fatigue Mitigation Manager** *Is there a designated fatigue risk manager who is responsible and accountable for managing fatigue risk and fatigue countermeasures, and someone (perhaps the same person) that is authorized to review and approve HOS emergency deviations?* (CR.CRMFM.FATIGUEMANAGER.P) (detail) 195.446(d)

Notes

*** 5. Normal Shift Length** *Is the scheduled shift length less than or equal to 12 hours (not including shift hand-over) or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep?* (CR.CRMFM.SHIFTLENGTH.R) (detail) 195.446(d)(1)

Notes

*** 6. Factors in Shift Length** *Does the operator factor in all time the individual is working for the company when establishing shift lengths and schedule rotations or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep?* (CR.CRMFM.SHIFTLENGTHTIME.R) (detail) 195.446(d)(1)

Notes

*** 7. Scheduled Time Off** *Are all scheduled periods of time off at least one hour longer than 8 hours plus commute time or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep?* (CR.CRMFM.SCHEDULEDTIMEOFF.R) (detail) 195.446(d)(1)

Notes

*** 8. On Call Controllers** *For controllers who are on call, does the operator minimize interrupting the required 8 hours of continuous sleep or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep?* (CR.CRMFM.ONCALLCONTROLLER.R) (detail) 195.446(d)(1)

Notes

*** 9. Maximum Hours of Service** *Do processes limit the maximum HOS limit in any sliding 7 day period to no more than 65 hours or is there a documented technical basis to show reduction of the risk associated with controller fatigue?* (CR.CRMFM.MAXHOS.P) (detail) 195.446(d)(4)

Notes

*** 10. Minimum Time Off** *After reaching the HOS limit in any sliding 7 day period, is the minimum time off at least 35 hours or is there a documented technical basis to show a reduction of the risk associated with controller fatigue?* (CR.CRMFM.MINTIMEOFF.P) (detail) 195.446(d)(4)

Notes

*** 11. Documented Time Schedule** *Is there a formal system to document all scheduled and unscheduled HOS worked, including overtime and time spent performing duties other than control room duties?* (CR.CRMFM.DOCSCHEDULE.P) (detail) 195.446(d)(4)

Notes

*** 12. Days Off** *For normal business hour type operations (i.e., five days per week), are no more than five days worked in succession before at least two days off?* (CR.CRMFM.DAYSOFF.P) (detail) 195.446(d)(4)

Notes

*** 13. Normal Work Hours** *For normal business hour type operations (i.e., five days per week), is the shift start time no earlier than 6:00 a.m. and the shift end time no later than 7:00 p.m.?* (CR.CRMFM.WORKHOURS.R) (detail) 195.446(d)(4)

Notes

*** 14. Fatigue Countermeasures** *For shifts longer than 8 hours, have specific fatigue countermeasures been implemented for the ninth and beyond hours?* (CR.CRMFM.FATIGUECOUNTERMEASURES.P) (detail) 195.446(d)(4)

Notes

*** 15. Daily HOS Limit** *Do processes limit the daily maximum HOS limit no more than 14 hours in any sliding 24-hour period?* (CR.CRMFM.DAILYHOSLIMIT.P) (detail) 195.446(d)(4)

Notes

*** 16. Number of Qualified Controllers** *Do operations include a sufficient number of qualified controllers?* (CR.CRMFM.CONTROLLERNUMBERS.O) (detail) 195.446(d)(4)

Notes

*** 17. Off Duty Hours** *Do processes ensure that controllers are provided with at least thirty-five (35) continuous off-duty hours when limits are reached following the most recent 35-hour (minimum) off-duty rest period or is there a documented technical basis to show that the maximum limit on controller HOS is adequate to reduce the risk associated with controller fatigue?* (CR.CRMFM.OFFDUTYHOURS.P) (detail) 195.446(d)(4)

Notes

*** 18. Shift Holdover** *Does the shift holdover process conform to shift holdover guidelines or is their a documented technical basis to show that the maximum limit on controller HOS is adequate to reduce the risk associated with controller fatigue?* (CR.CRMFM.SHIFTHOLDOVER.P) (detail) 195.446(d)(4)

Notes

*** 19. Specific Fatigue Countermeasures** *Do processes require specific fatigue countermeasures during applicable time periods, or is there a documented technical basis to show that the maximum limit on controller HOS is adequate to reduce the risk associated with controller fatigue?* (CR.CRMFM.SPECIFICCOUNTERMEASURES.P) (detail) 195.446(d)(4)

Notes

*** 20. Deviations from HOS Limits** *Is there a formal process for approving deviations from the maximum HOS limits?* (CR.CRMFM.HOSDEVIATIONS.P) (detail) 195.446(d)(4)

Notes

*** 21. Fatigue Education** *Does the program require that fatigue education/training is required for all controllers and control room supervisors?* (CR.CRMFM.FATIGUEEDUCATE.P) (detail) 195.446(d)(2) (195.446(d)(3))

Notes

*** 22. Fatigue Education Refresher** *Is refresher fatigue education provided at regular intervals?* (CR.CRMFM.FATIGUEREFRESHER.R) (detail) 195.446(d)(2) (195.446(d)(3))

Notes

*** 23. Review of Fatigue Education Program** *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) (detail) 195.446(d)(2) (195.446(d)(3))

Notes

*** 24. Fatigue Mitigation Strategy** *Does fatigue education address fatigue mitigation strategies (countermeasures)?* (CR.CRMFM.FATIGUESTRATEGY.P) (detail) 195.446(d)(2)

Notes

*** 25. Off-Duty Activity Impact on Fatigue** *Does fatigue education address how off-duty activities contribute to fatigue?* (CR.CRMFM.OFFDUTY.P) (detail) 195.446(d)(2)

Notes

*** 26. Fatigue Training Content** *Is the content of fatigue training adequate for training controllers and supervisors to recognize the effects of fatigue?* (CR.CRMFM.FATIGUECONTENT.P) (detail) 195.446(d)(3)

Notes

CRM, SCADA, and Leak Detection - Alarm Management

*** 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) (detail) 195.446(e)

Notes

*** 2. Alarm Malfunction** *Is there a process to identify and correct inaccurate or malfunctioning alarms?* (CR.CRMAM.ALARMMALFUNCTION.P) (detail) 195.446(e)(1)

Notes

*** 3. Alarm Systems** *Does the review of safety-related alarms account for different alarm designs and all alarm types/priorities?* (CR.CRMAM.ALARMREVIEW.P) (detail) 195.446(e)(1)

Notes

*** 4. Controller SCADA Performance** *Does the review of safety-related alarms account for individual-specific controller qualification and performance?* (CR.CRMAM.CONTROLLERPERFORMANCE.P) (detail) 195.446(e)(1)

Notes

*** 5. Managing Stale or Unreliable Data** *Does the review of safety-related alarms include specific procedures and practices for managing stale or unreliable data?* (CR.CRMAM.STALEDATA.P) (detail) 195.446(e)(1)

Notes

*** 6. Monthly Analysis of SCADA Data** *Do processes require the monthly identification, recording, review, and analysis of points that have been taken off scan, have had alarms inhibited, generated false alarms, or that have had forced or manual values for periods of time exceeding that required for associated maintenance or operating activities?* (CR.CRMAM.MONTHLYANALYSIS.P) (detail) 195.446(e)(2)

Notes

*** 7. Correction of SCADA Problems** *Does the alarm management plan include a process for promptly correcting identified problems and for returning these points to service?* (CR.CRMAM.PROBLEMCORRECTION.P) (detail) 195.446(e)(2)

Notes

*** 8. Alarm Setpoint Process** *Is there a formal process to determine the correct alarm setpoint values and alarm descriptions?* (CR.CRMAM.ALARMSETPOINTS.P) (detail) 195.446(e)(3)

Notes

*** 9. Controls on SCADA Settings** *Have procedures been established to clearly address how and to what degree controllers can change alarm limits or setpoints, or inhibit alarms, or take points off-scan?* (CR.CRMAM.SETTINGCONTROL.P) (detail) 195.446(e)(3)

Notes

*** 10. Verification of SCADA Settings** *Do processes require that any calibration or change to field instruments require verification of alarm setpoints and alarm descriptions?* (CR.CRMAM.VERIFICATION.P) (detail) 195.446(e)(3)

Notes

*** 11. Alarm Management Plan Review** *Are there processes to review the alarm management plan at least once each calendar year, but at intervals not exceeding 15 months, in order to determine the effectiveness of the plan?* (CR.CRMAM.PLANREVIEW.P) (detail) 195.446(e)(4)

Notes

*** 12. Alarm Management Plan Review** *Do records indicate review of the alarm management plan at least once each calendar year, but at intervals not exceeding 15 months, in order to determine the effectiveness of the plan?* (CR.CRMAM.PLANREVIEW.R) (detail) 195.446(e)(4)

Notes

*** 13. 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) (detail) 195.446(e)(5)

Notes

*** 14. Monitoring Work Load** *Is the process of monitoring and analyzing general activity comprehensive?* (CR.CRMAM.WORKLOADMONITORING.P) (detail) 195.446(e)(5)

Notes

*** 15. Controller Reaction to Incoming Alarms** *Does the process have a means of determining that the controller has sufficient time to analyze and react to incoming alarms?* (CR.CRMAM.CONTROLLERREACTION.P) (detail) 195.446(e)(5)

Notes

*** 16. Analysis of Controller Performance** *Has an analysis been performed to determine if controller(s) performance is currently adequate?* (CR.CRMAM.PERFORMANCEANALYSIS.R) (detail) 195.446(e)(5)

Notes

*** 17. Alarm Deficiency Resolution** *Is there a process to address how deficiencies found in implementing 195.446(e)(1) through 195.446(e)(5) will be resolved?* (CR.CRMAM.DEFICIENCIES.P) (detail) 195.446(e)(6)

Notes

*** 18. Alarm Management Deficiencies** *Do records indicate deficiencies found in implementing 195.446(e)(1) through 195.446(e)(5) have been resolved?* (CR.CRMAM.DEFICIENCIES.R) (detail) 195.446(e)(6)

Notes

CRM, SCADA, and Leak Detection - Change Management

*** 1. Meetings on CRM Changes** *Is there a process to mandate a control room representative will participate in meetings where changes that could directly or indirectly affect control room operations (including routine maintenance and repairs) are being considered, designed and implemented?* (CR.CRMCMGT.CHANGEMEETINGS.P) (detail) 195.446(f)(1)

Notes

*** 2. Training on CRM Changes** *Before implementing changes, do records indicate controllers were provided with notification and training to assure their ability to safely incorporate the proposed change into operations?* (CR.CRMCMGT.CHANGETRAINING.R) (detail) 195.446(f)(1)

Notes

*** 3. Emergency Contact with Control Room** *Is there a process requiring field personnel and SCADA support personnel to contact the control room when emergency conditions exist?* (CR.CRMCMGT.EMERGENCYCONTACT.P) (detail) 195.446(f)(2)

Notes

*** 4. Change Coordination** *Does the process assure changes in field equipment (for example, moving a valve) that could affect control room operations are coordinated with control room personnel?* (CR.CRMCMGT.CHANGECOORDINATION.P) (detail) 195.446(f)(1)

Notes

*** 5. Change Coordination** *Do records indicate that changes in field equipment (for example, moving a valve) that could affect control room operations were coordinated with control room personnel?* (CR.CRMCMGT.CHANGECOORDINATION.R) (detail) 195.446(f)(1)

Notes

*** 6. Coordination of Field Changes** *Does the process require field personnel and SCADA support personnel to contact the control room when making field changes (for example, moving a valve) that affect control room operations?* (CR.CRMCMGT.FIELDCONTACT.P) (detail) 195.446(f)(2)

Notes

*** 7. Coordination of Field Changes** *Do records indicate field personnel and SCADA support personnel contacted the control room when making field changes (for example, moving a valve) that affect control room operations?* (CR.CRMCMGT.FIELDCHANGES.R) (detail) 195.446(f)(2)

Notes

CRM, SCADA, and Leak Detection - Operating Experience

*** 1. Abnormal Operations (Review)** *Is there a formal, structured approach for reviewing and critiquing reportable events to identify lessons learned?* (CR.CRMEXP.ABNORMALREVIEW.P) (detail) 195.446(g)(1)

Notes

*** 2. Abnormal Operations (Review)** *Do records indicate reviews of reportable events specifically analyzed all contributing factors to determine if control room actions contributed to the event, and corrected any deficiencies?* (CR.CRMEXP.ABNORMALREVIEW.R) (detail) 195.446(g)(1)

Notes

*** 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) (detail) 195.446(g)(2)

Notes

*** 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) (detail) 195.446(g)(2)

Notes

CRM, SCADA, and Leak Detection - Training

*** 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) (detail) 195.446(h)

Notes

*** 2. Controller Training Program** *Has a controller training program been implemented to provide training for each controller to carry out their roles and responsibilities?* (CR.CRMTRAIN.CONTROLLERTRAIN.R) (detail) 195.446(h)

Notes

*** 3. Training Program Review** *Have processes been established 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.P) (detail) 195.446(h)

Notes

*** 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) (detail) 195.446(h)

Notes

*** 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) (detail) 195.446(h)

Notes

*** 6. List of AOCs for Training** *Has a list of the abnormal operating conditions that are likely to occur simultaneously or in sequence been established?* (CR.CRMTRAIN.AOCLIST.R) (detail) 195.446(h)(1)

Notes

*** 7. Controller Training and Qualification** *Does the training program provide controller training on recognizing and responding to abnormal operating conditions that are likely to occur simultaneously or in sequence?* (CR.CRMTRAIN.TRAININGABNORMAL.P) (detail) 195.446(h)(1)

Notes

*** 8. Controller Training and Qualification** *Does the training program use a simulator or tabletop exercises to train controllers how to recognize and respond to abnormal operating conditions?* (CR.CRMTRAIN.TRAINING.R) (detail) 195.446(h)(2)

Notes

*** 9. Controller Training and Qualification** *Does the training program use a simulator or tabletop exercises to train controllers how to recognize and respond to abnormal operating conditions?* (CR.CRMTRAIN.TRAINING.O) (detail) 195.446(h)(2)

Notes

*** 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) (detail) 195.446(h)(3)

Notes

*** 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) (detail) 195.446(h)(4)

Notes

*** 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) (detail) 195.446(h)(5)

Notes

*** 13. Review of Procedures Prior to Use** *Do processes specify that, for pipeline operating set-ups that are periodically (but infrequently) used, the controllers must be provided an opportunity to review relevant procedures in advance of their use?* (CR.CRMTRAIN.INFREQOPSREVIEW.P) (detail) 195.446(h)(5)

Notes

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

*** 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) (detail) 195.446(i)

Notes

*** 2. Record of Procedure Submittals** *Has the operator been responsive to requests from applicable agencies to submit their CRM procedures?* (CR.CRMCOMP.SUBMITPROCEDURES.R) (detail) 195.446(i)

Notes

*** 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.R) (detail) 195.446(i)

Notes

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

Notes

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

Notes

*** 6. Electronic Records** *Are electronic records properly stored, safeguarded, and readily retrievable?* (CR.CRMCOMP.ELECTRONICRECORDS.R) (detail) 195.446(j)(1)

Notes

*** 7. CRM Deviations** *Are there processes to demonstrate and provide a documented record that every deviation from any CRM rule requirement was necessary for safe operation?* (CR.CRMCOMP.DEVIATIONS.P) (detail) 195.446(j)(2)

Notes

*** 8. Deviation Records** *Were all deviations documented in a way that demonstrates they were necessary for safe operation?* (CR.CRMCOMP.DEVIATIONS.R) (detail) 195.446(j)(2)

Notes

CRM, SCADA, and Leak Detection - Leak Detection

1. Output of CPM System *What is the output of the CPM System?* (CR.LD.CPMOUTPUT.P) (detail) 195.402(a) (195.446(b))

Notes

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

Notes

*** 3. Requirements for CPM Systems** *If Computational Pipeline Monitoring (CPM) is used, does it comply with guidance in API 1130 requirements in operating, maintaining, testing, record-keeping, and dispatcher training?* (CR.LD.CPM.P) (detail) 195.402(a) (195.444; 195.446(b); 195.446(c))

Notes

4. Pipeline Controller Training *Are the Pipeline Controllers trained in the recognition of CPM alarms?* (CR.LD.CPMTRAINING.P) (detail) 195.444 (API-1130; 195.505(h))

Notes

5. Pipeline Controller Training *Are the Pipeline Controllers trained in the recognition of CPM alarms?* (CR.LD.CPMTRAINING.O) (detail) 195.444 (API-1130; 195.505(h))

Notes

6. Alarm Display *Are alarms in compliance with Section 5.3.3 of API 1130?* (CR.LD.ALARMDISPLAY.P) (detail) 195.444 (API-1130)

Notes

*** 7. Alarm Credibility** *Do alarms conform to API-1130?* (CR.LD.ALARMCRED.P) (detail) 195.444 (API-1130; 195.134; 195.446(e))

Notes

8. System Testing *Does testing of the LDS conform to API-1130?* (CR.LD.LDSTEST.P) (detail) 195.444 (API-1130; 195.134)

Notes

9. Initial System Testing *Does initial testing of the LDS conform to API-1130?* (CR.LD.LDSTESTINITIAL.P) (detail) 195.134 (API-1130)

Notes

10. Initial System Testing *Have initial system testing records and results been retained/available and indicate adequate results?* (CR.LD.LDSTESTINITIAL.R) (detail) 195.134 (API-1130)

Notes

11. Parameter and System Changes *Are parameter and/or system changes reflected in the leak detection system?* (CR.LD.LDSMOC.P) (detail) 195.444 (API-1130; 195.134)

Notes

12. Integration of Leak Detection Presentation with SCADA *Are the LDS data, communication, and controller interface appropriately integrated with the SCADA displays?* (CR.LD.LDSCADA.P) (detail) 195.134 (API-1130; 195.444; 195.446(c))

Notes

13. 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) (detail) 195.444 (API-1130; 195.134)

Notes

14. Field Instrumentation Accuracy and Calibration *Do records indicate the calibration of field instrumentation used in the leak detection system was performed?* (CR.LD.LDSINSTRUMENT.R) (detail) 195.444 (API-1130; 195.446(j))

Notes

15. Failure Consequence Protection *What leak detection measures are taken to prevent and mitigate the consequences of a pipeline failure?* (CR.LD.LDSPMM.R) (detail) 195.446

Notes

16. CPM Threat Protection/Security *Is the CPM system adequately protected from security threats?* (CR.LD.CPMPROTECT.P) (detail) 195.402(a)

Notes

Design and Construction - Construction - Pump Stations

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

Notes

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

Notes

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

Notes

4. Cover Over Buried Pipeline *Does the process specify that piping is installed with a depth of cover as specified in §195.248?* (DC.COCMP.COVER.P) (detail) 195.202 (195.248(a))

Notes

5. Cover Over Buried Pipeline *Do records indicate that piping is installed with a depth of cover as specified in §195.248?* (DC.COCMP.COVER.R) (detail) 195.266(b) (195.248(a))

Notes

6. Cover Over Buried Pipeline *Is piping installed with a depth of cover as specified in §195.248?* (DC.COCMP.COVER.O) (detail) 195.248(a)

Notes

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

Notes

8. Above Ground Component Installation *Do records verify that above ground components are installed as allowed by §195.254?* (DC.COCMP.INSTALLABOVEGRND.R) (detail) 195.266 (195.254(a); 195.254(b))

Notes

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

Notes

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

Notes

11. Valve Accessibility *Do records indicate that valves are accessible to authorized employees and protected from damage or tampering?* (DC.COCMP.VALVEPROTECT.R) (detail) 195.266(f) (195.258(a))

Notes

12. Valve Accessibility *Are valves accessible to authorized employees and protected from damage or tampering?* (DC.COCMP.VALVEPROTECT.O) (detail) 195.258(a)

Notes

13. Valve Locations *Does the process specify that valves are located as specified by §195.260?* (DC.COCMP.VALVELOCATION.P) (detail) 195.202 (195.260(a); 195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))

Notes

14. Valve Locations *Do records indicate that valves are located as specified by §195.260?* (DC.COCMP.VALVELOCATION.R) (detail) 195.266(f) (195.260(a); 195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))

Notes

15. Valve Locations *Are valves located as specified by §195.260?* (DC.COCMP.VALVELOCATION.O) (detail) 195.260(a) (195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))

Notes

16. Pumping Equipment - Specification *Does the process require pumping equipment to meet the requirements §195.262?* (DC.COCMP.PMPSPEC.P) (detail) 195.202 (195.262(a); 195.262(b); 195.262(c); 195.262(d); 195.262(e))

Notes

17. Pumping Equipment - Ventilation *Is adequate ventilation provided in pump station buildings to prevent the accumulation of hazardous vapors?* (DC.COCMP.PMPVENTILATE.O) (detail) 195.262(a)

Notes

18. Pumping Equipment - Hazardous Vapors *Do pumping station buildings have devices to warn of the presence of hazardous vapors?* (DC.COCMP.PMPVAPOR.O) (detail) 195.262(a)

Notes

19. Pumping Equipment - Overpressure Protection *Does the process specify that pumping stations have overpressure safety devices and emergency shutdown capability?* (DC.COCMP.PMPOVERPRESS.P) (detail) 195.202 (195.262(b))

Notes

20. Pumping Equipment - Overpressure Protection *Do pumping stations have overpressure safety devices and emergency shutdown capability?* (DC.COCMP.PMPOVERPRESS.O) (detail) 195.262(b)

Notes

21. Pumping Equipment - Safety Device Testing *Are safety devices tested before pumping stations are used?* (DC.COCMP.PMPSAFETYDEVICETEST.O) (detail) 195.262(c)

Notes

22. Pumping Equipment - Safety Device Testing *Do records indicate safety devices tested before pumping stations used?* (DC.COCMP.PMPSAFETYDEVICETEST.R) (detail) 195.262(c)

Notes

23. Pumping Equipment - Controlled Property *Is pumping equipment installed on property that is under the control of the operator and at least 15.2 m (50 ft) from the boundary of the pump station?* (DC.COCMP.PMPPROPERTY.O) (detail) 195.262(d)

Notes

24. Pumping Equipment- Fire Protection *Is fire protection installed at each pump station?* (DC.COCMP.PMPFIREPROT.O) (detail) 195.262(e)

Notes

25. Material Inspection *Does the process specify that prior to installation, pipe and components are visually inspected at the site of installation to ensure they are not damaged?* (DC.COCMP.INSPECTION.P) (detail) 195.202 (195.206)

Notes

26. Bending of Pipe. *Does the construction process meet the requirements of §195.212 for bending pipe?* (DC.COCMP.FIELDBEND.P) (detail) 195.202 (195.212(a); 195.212(b); 195.212(c))

Notes

27. Bending of Pipe. *Does pipe bending meet the requirements of §195.212?* (DC.COCMP.FIELDBEND.O) (detail) 195.212(a) (195.212(b); 195.212(c))

Notes

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

Notes

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

Notes

30. Clearance Between Pipe and Underground Structures *Does clearance requirements between pipe and underground structures comply with §195.250?* (DC.COCMP.CLEAR.P) (detail) 195.202 (195.250)

Notes

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

Notes

32. Backfilling *Is backfilling required to be performed in a manner that provides firm support and that does no damage to the pipe and coating?* (DC.COCMP.BACKFILL.P) (detail) 195.202 (195.252(a); 192.252(b))

Notes

33. Backfilling *Is backfilling performed in a manner that provides firm support and does no damage to the pipe and coating?* (DC.COCMP.BACKFILL.O) (detail) 195.252(a) (192.252(b))

Notes

Design and Construction - Construction Welding Procedures

1. Welding of Supports and Braces *Does the process allow for supports or braces to be welded directly to pipe that operates at a pressure less than or equal to 100 p.s.i. (689 kPa) gage?* (DC.WELDPROCEDURE.WELDSUPPORT.P) (detail) 195.202 (195.208)

Notes

2. Welding Procedures *Does the process require welding to be performed by qualified welders using qualified welding procedures?* (DC.WELDPROCEDURE.WELD.P) (detail) 195.214(a)

Notes

3. Welding Procedures *Are welding procedures being qualified in accordance with §195.214?* (DC.WELDPROCEDURE.WELD.O) (detail) 195.214(a)

Notes

4. Welding Procedures *Are welding procedures and qualifying tests required to be recorded in detail?* (DC.WELDPROCEDURE.WELDPROCEDURE.P) (detail) 195.214(b)

Notes

5. Welding Procedures *Do records indicate welding procedures and qualifying tests recorded in detail?* (DC.WELDPROCEDURE.WELDPROCEDURE.R) (detail) 195.214(b)

Notes

6. Welding Procedures *Are welding procedures being retained and followed?* (DC.WELDPROCEDURE.WELDPROCEDURE.O) (detail) 195.214(b)

Notes

7. Miter Joints *Do welding procedures prohibit the use of miter joints?* (DC.WELDPROCEDURE.MITERJOINT.P) (detail) 195.214(b) (195.216)

Notes

8. Welding Weather *Is welding required to be protected from weather conditions that would impair the quality of the completed weld?* (DC.WELDPROCEDURE.WELDWEATHER.P) (detail) 195.224

Notes

9. Welding Weather *Is welding protected from weather conditions that would impair the quality of the completed weld?* (DC.WELDPROCEDURE.WELDWEATHER.O) (detail) 195.224

Notes

10. Arc Burns and Ground Wires *Does the process address arc burns and ground wires in accordance with §195.226?* (DC.WELDPROCEDURE.ARCBURNGRNDWIRE.P) (detail) 195.202 (195.226(a); 195.226(b); 195.226(c))

Notes

11. Arc Burns and Ground Wires *Do records indicate arc burns and ground wires are addressed in accordance with §195.226?* (DC.WELDPROCEDURE.ARCBURNGRNDWIRE.R) (detail) 195.226(a) (195.226(b); 195.226(c))

Notes

12. Arc Burns and Ground Wires *Are arc burns and ground wires addressed in accordance with §195.226?* (DC.WELDPROCEDURE.ARCBURNGRNDWIRE.O) (detail) 195.226(a) (195.226(b); 195.226(c))

Notes

13. Welding on In-Service Pipelines *Does the process require consideration of issues related to welding on in-service pipelines?* (DC.WELDPROCEDURE.WELDINSERVICE.P) (detail) 195.402(a) (195.422(a); Alert Notice dated 3/18/87)

Notes

Design and Construction - Construction Welder Qualification

*** 1. Qualification of Welders** *Is each welder required to be qualified in accordance with section 6 of API 1104 or section IX of the ASME Boiler and Pressure Vessel Code?* (DC.WELDERQUAL.WELDERQUAL.P) (detail) 195.222(a) (195.222(b))

Notes

2. Qualification of Welders *Do records indicate that welders are qualified in accordance with API-1104 or the ASME Boiler & Pressure Vessel Code?* (DC.WELDERQUAL.WELDERQUAL.R) (detail) 195.222(a) (195.222(b); 195.214(a); Section 6 of API-1104; Section IX of ASME Boiler & Pressure Vessel Code)

Notes

3. Skills and Knowledge of Welders *Are welders performing welds according to established procedures?* (DC.WELDERQUAL.WELDERQUAL.O) (detail) 195.222(a) (195.222(b); 195.505(b), 195.214(a))

Notes

Design and Construction - Construction Weld Inspection

1. Weld Inspection Standards *Are welds required to be inspected to ensure compliance with the requirements of §195.228?* (DC.WELDINSP.WELDINSPECT.P) (detail) 195.228(a) (195.228(b))

Notes

2. Weld Inspection Standards *Do records indicate welds are inspected to ensure compliance with the requirements of §195.228?* (DC.WELDINSP.WELDINSPECT.R) (detail) 195.228(a) (195.228(b); 195.234)

Notes

3. Weld Inspection Standards *Are welds being inspected to ensure compliance with the requirements of §195.228?* (DC.WELDINSP.WELDINSPECT.O) (detail) 195.228(a) (195.228(b); 195.234)

Notes

4. Repair or Removal of Weld Defects *Are welds that are unacceptable required to be removed and/or repaired as specified by §195.230 and does the operator have repair procedures?* (DC.WELDINSP.WELDREPAIR.P) (detail) 195.202 (195.230(a); 195.230(b); 195.230(c))

Notes

5. Repair or Removal of Weld Defects *Do records indicate that unacceptable welds are removed and/or repaired?* (DC.WELDINSP.WELDREPAIR.R) (detail) 195.230(a) (195.230(b); 195.230(c))

Notes

6. Repair or Removal of Weld Defects *Are unacceptable welds being removed and/or repaired?* (DC.WELDINSP.WELDREPAIR.O) (detail) 195.230(a) (195.230(b); 195.230(c))

Notes

7. Nondestructive Test and Interpretation Procedures *Are there processes for nondestructive testing and for determining standards of acceptability?* (DC.WELDINSP.WELDNDT.P) (detail) 195.234(a) (195.234(b)(1); 195.234(c))

Notes

8. Nondestructive Test and Interpretation Procedures *Are NDT activities performed in accordance with approved processes?* (DC.WELDINSP.WELDNDT.O) (detail) 195.234(a) (195.234(b)(1); 195.234(c))

Notes

9. Nondestructive Testing Personnel Training *Does the process require nondestructive testing of welds (for maintenance and construction) be performed by personnel who are trained in procedures established to ensure compliance with §195.228 and in use of the testing equipment?* (DC.WELDINSP.WELDNDTQUAL.P) (detail) 195.202 (195.234(b)(2))

Notes

10. Nondestructive Testing of Girth Welds *Does the process require certain girth welds to be nondestructively tested in accordance with §§195.234(d), (e), (f), and (g)?* (DC.WELDINSP.GIRTHWELDNDT.P) (detail) 195.202 (195.234(d); 195.234(e); 195.234(f); 195.234(g); 195.266)

Notes

11. Nondestructive Testing of Girth Welds *Do records demonstrate at least 10% of all welds that are made by each welder during each welding day are nondestructively tested over the entire circumference of the welds or that more welds are tested per the operator's own procedures?* (DC.WELDINSP.GIRTHWELDNDT.R) (detail) 195.234(d) (195.266(a))

Notes

12. Nondestructive Testing of Girth Welds - Locations *Do records demonstrate all girth welds installed each day in selected locations specified in §195.234(e) are nondestructively tested over their entire circumference?* (DC.WELDINSP.GIRTHWELDNDTLOCATE.R) (detail) 195.234(e) (195.266(a))

Notes

13. Nondestructive Testing of Girth Welds - Used Pipe *Do records demonstrate that when installing used pipe, 100% of the old girth welds are nondestructively tested?* (DC.WELDINSP.GIRTHWELDNDTUSED.R) (detail) 195.234(f) (195.266(a))

Notes

14. Nondestructive Testing of Girth Welds - Pipe Tie-Ins *Do records demonstrate 100% of the girth welds have been nondestructively tested at selected pipe tie-ins?* (DC.WELDINSP.GIRTHWELDNDTTIEIN.R) (detail) 195.234(g) (195.266(a))

Notes

Design and Construction - Pressure Testing - Breakout Tanks

1. Pressure Testing of Tie-Ins *Does the process require testing of pipe associated with tie-ins, either with the section to be tied in or separately?* (DC.PTBO.PRESSTESTTIEIN.P) (detail) 195.402(c) (195.308)

Notes

2. Pressure Testing of Tie-Ins *Do records indicate pipe associated with tie-ins has been pressure tested?* (DC.PTBO.PRESSTESTTIEIN.R) (detail) 195.308

Notes

3. Pressure Testing - New Breakout Tanks *Have written test procedures been developed for testing new breakout tanks in accordance with §195.307?* (DC.PTBO.BOPRESSTEST.P) (detail) 195.202 (195.307(a); 195.307(b); 195.307(c); 195.307(e); 195.310; API Specification 12F; API 620; API 650)

Notes

4. Pressure Testing - New Breakout Tanks *Do records indicate testing for new breakout tanks in accordance with §195.307?* (DC.PTBO.BOPRESSTEST.R) (detail) 195.404(c) (195.307(a); 195.307(b); 195.307(c); 195.307(e); 195.310; API Specification 12F; API 620; API 650)

Notes

5. Pressure Testing - New Breakout Tanks *Is testing of selected new breakout tanks being conducted in accordance with §195.307?* (DC.PTBO.BOPRESSTEST.O) (detail) 195.307(a) (195.307(b); 195.307(c); 195.307(e); 195.310; API Specification 12F; API 620; API 650)

Notes

6. Breakout Tank Pressure Testing - Repairs, Alterations, and Reconstructions *Have written test procedures been developed for testing repaired, altered, or reconstructed breakout tanks that were returned to service after October 2, 2000?* (DC.PTBO.BOPRESSTESTMODIFY.P) (detail) 195.402(c) (195.307(d); 195.310(a); 195.310(b); API 653)

Notes

7. Breakout Tank Pressure Testing - Repairs, Alterations, and Reconstructions *Do records indicate that pressure testing was implemented for repaired, altered, or reconstructed breakout tanks that were returned to service after October 2, 2000?* (DC.PTBO.BOPRESSTESTMODIFY.R) (detail) 195.310(a) (195.310(b); 195.307(d); API 653)

Notes

8. Breakout Tank Pressure Testing - Repairs, Alterations, and Reconstructions *Is testing of repaired, altered, or reconstructed breakout tanks being conducted in accordance with §195.307?* (DC.PTBO.BOPRESSTESTMODIFY.O) (detail) 195.307(d) (API 653)

Notes

Design and Construction - Training and Qualification (OQ)

1. Skills and Knowledge of Personnel Performing Covered Tasks - Operator Employee *Does the process include covered tasks relating to "construction-type" maintenance?* (DC.TQOQ.OQPLAN.P) (detail) 195.505(a) (Operators OQ program manual)

Notes

2. Abnormal Operating Conditions - Construction Maintenance *Do records demonstrate that identified construction-type maintenance AOCs are adequate?* (DC.TQOQ.ABNORMAL.R) (detail) 195.505(a)

Notes

3. Skills and Knowledge of Personnel Performing Covered Tasks - Contractor Employees *Are qualification records for contractor personnel maintained?* (DC.TQOQ.OQCONTRACTOR.R) (detail) 195.505(b) (Operators OQ program manual)

Notes

4. Skills and Knowledge of Personnel Performing Covered Tasks - Contractor Employees *Do selected contractor individuals performing covered tasks demonstrate adequate skills and knowledge?* (DC.TQOQ.OQCONTRACTOR.O) (detail) 195.505(b) (Operators OQ program manual)

Notes

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

Notes

6. Skills and Knowledge of Personnel Performing Covered Tasks - Operator Employee *Do selected operator individuals performing covered tasks demonstrate adequate skills and knowledge?* (DC.TQOQ.OQPLAN.O) (detail) 195.505(b) (Operators OQ program manual)

Notes

7. Qualification of Personnel Who Oversee Excavations and Backfilling Operations *Do records demonstrate individuals who oversee marking, trenching and backfilling operations are qualified?* (DC.TQOQ.EXCAVATE.R) (detail) 195.505(b) (ADB-06-01)

Notes

8. Qualification of Personnel Who Oversee Excavations and Backfilling Operations *Do selected individuals who oversee marking, trenching and backfilling operations demonstrate adequate skills and knowledge?* (DC.TQOQ.EXCAVATE.O) (detail) 195.505(b) (ADB-06-01)

Notes

Design and Construction - New Tanks and Storage

1. New Aboveground Breakout Tanks *Are new aboveground breakout tanks required to be designed and constructed to the specifications required by §195.132?* (DC.TSNEW.BOSPEC.P) (detail) 195.132(a) (195.132(b))

Notes

2. New Aboveground Breakout Tanks *Do records indicate new aboveground breakout tanks designed and constructed to the specifications required by §195.132(b)?* (DC.TSNEW.BOSPEC.R) (detail) 195.132(b)

Notes

3. New Aboveground Breakout Tanks *Are new aboveground breakout tanks designed and constructed to the specifications required of §195.132(b)?* (DC.TSNEW.BOSPEC.O) (detail) 195.132(b)

Notes

4. Cathodic Protection for Breakout Tanks *Is cathodic protection on breakout tanks required to be installed in accordance with API RP 651?* (DC.TSNEW.BOCP.P) (detail) 195.402(c)(3) (195.565; 195.563(d))

Notes

5. Cathodic Protection for Breakout Tanks *Do records indicate cathodic protection installed on breakout tanks in accordance with API RP 651?* (DC.TSNEW.BOCP.R) (detail) 195.404(c) (195.565; 195.563(d))

Notes

6. Cathodic Protection for Breakout Tanks *Is cathodic protection on breakout tanks being installed in accordance with API RP 651?* (DC.TSNEW.BOCP.O) (detail) 195.565 (195.563(d))

Notes

7. Breakout Tank Impoundment *Are new aboveground breakout tank impoundments, protection against entry, normal/emergency venting or pressure/vacuum reliefs required to comply with the requirements of §195.264?* (DC.TSNEW.BOIMPOUNDPROTECT.P) (detail) 195.202 (195.264(a); 195.264(b); 195.264(c); 195.264(d); 195.264(e))

Notes

8. Breakout Tank Impoundment *Do records indicate that new aboveground breakout tank impoundments, protection against entry, normal/emergency venting or pressure/vacuum reliefs comply with the requirements of §195.264?* (DC.TSNEW.BOIMPOUNDPROTECT.R) (detail) 195.266 (195.264(a); 195.264(b); 195.264(c); 195.264(d); 195.264(e))

Notes

9. Breakout Tank Impoundment *Do new aboveground breakout tank impoundments, protection against entry, normal/emergency venting or pressure/vacuum reliefs comply with the requirements of 195.264?* (DC.TSNEW.BOIMPOUNDPROTECT.O) (detail) 195.264(a) (195.264(b); 195.264(c); 195.264(d); 195.264(e))

Notes

10. Breakout Tank Overfill Protection *Are overfill protection systems for new or altered aboveground breakout tanks required to meet the requirements specified in §195.428(c)?* (DC.TSNEW.BOOVERFILL.P) (detail) 195.402(c) (195.428(c))

Notes

11. Breakout Tank Overfill Protection *Do records indicate that overfill protection systems for new or altered aboveground breakout tanks meet the requirements specified in §195.428(c)?* (DC.TSNEW.BOOVERFILL.R) (detail) 195.404 (195.428(c))

Notes

12. Breakout Tank Overfill Protection *Do overfill protection systems for new or altered aboveground breakout tanks meet the requirements specified in §195.428(c)?* (DC.TSNEW.BOOVERFILL.O) (detail) 195.428(c)

Notes

13. Installing Bottom Linings in Aboveground Breakout Tanks *Are bottom linings required to be installed in aboveground breakout tanks to meet the requirements specified in §195.579(d)?* (DC.TSNEW.BOBOTTOM.P) (detail) 195.402(c) (195.579(d))

Notes

14. Installing Bottom Linings in Aboveground Breakout Tanks *Do records indicate the installation of bottom linings in aboveground breakout tanks that meet the requirements specified in §195.579(d)?* (DC.TSNEW.BOBOTTOM.R) (detail) 195.404 (195.579(d))

Notes

15. Installing Bottom Linings in Aboveground Breakout Tanks *Do bottom linings being installed in aboveground breakout tanks meet the requirements specified in §195.579(d)?* (DC.TSNEW.BOBOTTOM.O) (detail) 195.579(d)

Notes

Design and Construction - Biofuels

1. Chemical Compatibility - Biofuel Special Considerations *Do records indicate determination that biofuel is chemically compatible with the pipeline, its components, and other commodities?* (DC.BIO.CHEMCOMPATIBLE.R) (detail) 195.4

Notes

2. Biofuel Special Considerations - Design Requirements *Does the process require certain Subpart C design requirements relating to biofuel transport be addressed?* (DC.BIO.DESIGN.P) (detail) 195.100 (195.116(c); 195.126; 195.118(c))

Notes

3. Biofuel Special Considerations - Design Requirements *Do records indicate that certain Subpart C design requirements relating to biofuel transport have been addressed?* (DC.BIO.DESIGN.R) (detail) 195.100 (195.116(c); 195.126; 195.118(c))

Notes

4. Biofuel Special Considerations - Construction Requirements *Do records indicate certain Subpart D construction requirements relating to biofuel transport have been addressed?* (DC.BIO.CONSTRUCT.R) (detail) 195.200 (195.260(c); 195.262(e))

Notes

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) (detail) 195.101(a) (195.101(b))

Notes

6. Valve Specifications: Ethanol Compatibility *Do records indicate pipeline system valves meet the compatibility requirements of §195.116(c)?* (DC.BIO.VALVE.R) (detail) 195.116(c)

Notes

Design and Construction - Construction

1. 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) (detail) 195.206

Notes

2. Pipeline Location *Does the process specify the required pipeline location and depth of cover?* (DC.CO.LOCATION.P) (detail) 195.202 (195.210(b))

Notes

3. Pipeline Location *Do records indicate the required pipeline location and depth of cover?* (DC.CO.LOCATION.R) (detail) 195.210(b)

Notes

4. Pipeline Location *Does pipeline location and depth of cover comply with §195.210(b)?* (DC.CO.LOCATION.O) (detail) 195.210(b)

Notes

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

Notes

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

Notes

7. Installation Offshore *Does the process specify that off shore piping is 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.P) (detail) 195.202 (195.246(b))

Notes

8. 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) (detail) 195.246(b)

Notes

9. Cover Over Buried Pipeline *Does the process specify that piping is installed with a depth of cover as specified in §195.248?* (DC.CO.COVER.P) (detail) 195.202 (195.248(a))

Notes

10. Cover Over Buried Pipeline *Do records indicate that piping is installed with a depth of cover as specified in §195.248?* (DC.CO.COVER.R) (detail) 195.266(b) (195.248(a))

Notes

11. Cover Over Buried Pipeline *Is piping installed with a depth of cover as specified in §195.248?* (DC.CO.COVER.O) (detail) 195.248(a)

Notes

12. Above Ground Component Installation *Does the process specify that above ground components are installed as allowed by §195.254?* (DC.CO.INSTALLABOVEGRND.P) (detail) 195.202 (195.254(a); 195.254(b))

Notes

13. Above Ground Component Installation *Do records verify that above ground components are installed as allowed by §195.254?* (DC.CO.INSTALLABOVEGRND.R) (detail) 195.266 (195.254(a); 195.254(b))

Notes

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

Notes

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

Notes

16. Valve Accessibility *Do records indicate that valves are accessible to authorized employees and protected from damage or tampering?* (DC.CO.VALVEPROTECT.R) (detail) 195.266(f) (195.258(a))

Notes

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

Notes

18. Submerged Valve Marking - Offshore *Does the process specify that offshore submerged valves are located or marked in order to facilitate quick location when operation of the valve is required?* (DC.CO.VALVEMARKOFFSHORE.P) (detail) 195.202 (195.258(b))

Notes

19. 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) (detail) 195.266(f) (195.258(b))

Notes

20. Submerged Valve Marking - Inland Navigable Waters *Do written specifications or standards and drawings specify that submerged valves located in inland navigable waters are located or marked in order to facilitate quick location when operation of the valve is required?* (DC.CO.VALVEMARKNAVWATER.P) (detail) 195.202 (195.258(b))

Notes

21. Submerged Valve Marking - Inland Navigable Waters *Are submerged valves located in inland navigable waters located or marked in order to facilitate quick location when operation of the valve is required?* (DC.CO.VALVEMARKNAVWATER.O) (detail) 195.258(b)

Notes

22. Valve Locations *Does the process specify that valves are located as specified by §195.260?* (DC.CO.VALVELOCATION.P) (detail) 195.202 (195.260(a); 195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))

Notes

23. Valve Locations *Do records indicate that valves are located as specified by §195.260?* (DC.CO.VALVELOCATION.R) (detail) 195.266(f) (195.260(a); 195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))

Notes

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

Notes

25. Material Inspection *Does the process specify that prior to installation, pipe and components are visually inspected at the site of installation to ensure they are not damaged?* (DC.CO.INSPECTION.P) (detail) 195.202 (195.206)

Notes

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

Notes

27. Bending of Pipe. *Does pipe bending meet the requirements of §195.212?* (DC.CO.FIELDBEND.O) (detail) 195.212(a) (195.212(b); 195.212(c))

Notes

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

Notes

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

Notes

30. Clearance Between Pipe and Underground Structures *Does clearance requirements between pipe and underground structures comply with §195.250?* (DC.CO.CLEAR.P) (detail) 195.202 (195.250)

Notes

31. Clearance Between Pipe and Underground Structures
Does clearance between pipe and underground structures comply with §195.250? (DC.CO.CLEAR.O) (detail) 195.250

Notes

32. Backfilling *Is backfilling required to be performed in a manner that provides firm support and that does no damage to the pipe and coating?* (DC.CO.BACKFILL.P) (detail) 195.202 (195.252(a); 192.252(b))

Notes

33. Backfilling *Is backfilling performed in a manner that provides firm support and does no damage to the pipe and coating?* (DC.CO.BACKFILL.O) (detail) 195.252(a) (192.252(b))

Notes

34. 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) (detail) 195.202 (195.256)

Notes

35. 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) (detail) 195.266(b) (195.256)

Notes

36. 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) (detail) 195.202 (195.256)

Notes

Design and Construction - Design

1. Design Temperature: CO2 Facilities *Does the process require that carbon dioxide system components subject to low temperatures are made of materials that are suitable for those low temperatures?* (DC.DN.TEMPDESIGNCO2.P) (detail) 195.102(b)

Notes

2. Design Temperature: CO2 Facilities *Do records indicate carbon dioxide system components subject to low temperatures are made of materials that are suitable for those low temperatures?* (DC.DN.TEMPDESIGNCO2.R) (detail) 195.102(b)

Notes

3. Internal Design Pressure *Does the process require the internal design pressure of the pipeline be determined in accordance with §195.106?* (DC.DN.DESIGNPRESS.P) (detail) 195.106(a) (195.106(b); 195.106(c); 195.106(d); 195.106(e))

Notes

4. Internal Design Pressure *Do records demonstrate the internal design pressure of the pipeline is determined in accordance with §195.106?* (DC.DN.DESIGNPRESS.R) (detail) 195.106(a) (195.106(b); 195.106(c); 195.106(d); 195.106(e))

Notes

5. Anticipated External Loads *Does the process require pipeline designs to account for anticipated external loads?* (DC.DN.EXTLOAD.P) (detail) 195.110(a) (195.110(b))

Notes

6. Anticipated External Loads *Do records demonstrate pipeline designs account for anticipated external loads?* (DC.DN.EXTLOAD.R) (detail) 195.110(a) (195.110(b))

Notes

7. Fracture Propagation CO2 Pipelines *Does the process require provisions to mitigate the effects of fracture propagation in carbon dioxide pipeline systems?* (DC.DN.CO2FRACPROP.P) (detail) 195.111

Notes

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

Notes

9. New Pipe *Does the process require that new pipe installed in a pipeline system comply with §195.112?* (DC.DN.NEWPIPE.P) (detail) 195.112(a) (195.112(b); 195.112(c))

Notes

10. New Pipe *Do records demonstrate new pipe installed in a pipeline system complies with §195.112?* (DC.DN.NEWPIPE.R) (detail) 195.112(a) (195.112(b); 195.112(c))

Notes

11. New Pipe *Is new pipe is marked in accordance with the requirements of §195.112(c)?* (DC.DN.NEWPIPE.O) (detail) 195.112(c)

Notes

12. Used Pipe *Do records demonstrate used pipe installed in a pipeline system complies with §195.114?* (DC.DN.USEDPIPE.R) (detail) 195.114(a) (195.114(b))

Notes

13. Valve Specifications *Does the process require pipeline system valves meet the requirements of §195.116?* (DC.DN.VALVE.P) (detail) 195.116(a) (195.116(b); 195.116(c); 195.116(d); 195.116(e); 195.116(f))

Notes

14. Valve Specifications *Do records indicate pipeline system valves meet the requirements of §195.116?* (DC.DN.VALVE.R) (detail) 195.116(a) (195.116(b); 195.116(c); 195.116(d); 195.116(e); 195.116(f))

Notes

15. Valve Observations *Do pipeline system valves meet the requirements of §195.116?* (DC.DN.VALVE.O) (detail) 195.116(f)

Notes

16. Valve Specifications - Compatibility with CO2 and Other Commodities *Does the process require that pipeline system valves meet the compatibility requirements of §195.116(c)?* (DC.DN.VALVECOMPAT.P) (detail) 195.116(c)

Notes

17. Valve Specifications - Compatibility with CO2 and Other Commodities *Do records indicate pipeline system valves meet the compatibility requirements of §195.116(c)?* (DC.DN.VALVECOMPAT.R) (detail) 195.116(c)

Notes

18. Fittings *Does the process require that selected material specifications for pipe fittings meet the requirements of §195.118?* (DC.DN.FITTING.P) (detail) 195.118(a) (195.118(b); 195.118(c))

Notes

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

Notes

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

Notes

21. Passage of Internal Inspection Devices *Does the process require the pipeline be designed and constructed to accommodate the passage of instrumented internal inspection devices?* (DC.DN.ILIPASS.P) (detail) 195.202 (195.120(a))

Notes

22. Passage of Internal Inspection Devices *Do records demonstrate the pipeline is designed and constructed to accommodate the passage of instrumented internal inspection devices?* (DC.DN.ILIPASS.R) (detail) 195.266 (195.120(a))

Notes

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

Notes

24. Closures *Does the process require closures comply with the ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 1 and have pressure and temperature ratings at least equal to those of the pipe to which the closure is attached?* (DC.DN.CLOSURE.P) (detail) 195.124

Notes

25. Closures *Do records indicate closures comply with the ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 1 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) (detail) 195.124

Notes

26. Closures *Do closures comply with the ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 1 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) (detail) 195.124

Notes

*** 27. Requirements for CPM Systems** *If Computational Pipeline Monitoring (CPM) is used, does it comply with guidance in API 1130 requirements in design, operating, maintaining, testing, record-keeping, and dispatcher training?* (DC.DN.CPMDESIGN.P) (detail) 195.134

Notes

Design and Construction - Maintenance and Operations

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) (detail) 195.402(a) (195.422(a); 195.402(c)(14))

Notes

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) (detail) 195.422(a) (195.402(c)(14))

Notes

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

Notes

4. Internal Corrosion in Cutout Pipe *Do records indicate removed pipe examined for evidence of internal corrosion?* (DC.MO.ICEXAMINE.R) (detail) 195.589(c) (195.579(c); 195.579(a))

Notes

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

Notes

6. Start-Stop Procedures *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?* (DC.MO.MOPLIMIT.P) (detail) 195.402(a) (195.402(c)(7))

Notes

7. Start-Stop Procedures *Do records indicate that pressure limitations on the pipeline are not exceeded?* (DC.MO.MOPLIMIT.R) (detail) 195.402(c)(7)

Notes

8. Start-Stop Procedures *During startup or shut-in, does the operator assure that pressure limitations on the pipeline were not exceeded?* (DC.MO.MOPLIMIT.O) (detail) 195.402(c)(7)

Notes

9. Pipe Movement *Has a process been developed for pipeline movements in accordance with §195.424?* (DC.MO.MOVE.P) (detail) 195.402(a) (195.424(a); 195.424(b); 195.424(c))

Notes

10. Pipe Movement *Does the operator perform pipeline movements in accordance with §195.424?* (DC.MO.MOVE.O) (detail) 195.424(a) (195.424(b); 195.424(c))

Notes

Design and Construction - Pressure Testing

1. Pressure Testing *Does the process have adequate test procedures?* (DC.PT.PRESSTEST.P) (detail) 195.402(c) (195.302(a), 195.304; 195.305; 195.306; 195.310)

Notes

2. Pressure Testing *Are pressure test records available and adequate?* (DC.PT.PRESSTEST.R) (detail) 195.310 (195.305(b))

Notes

3. Pressure Testing *Is pressure testing being adequately conducted?* (DC.PT.PRESSTEST.O) (detail) 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)

Notes

4. Pressure Testing of Tie-Ins *Does the process require testing of pipe associated with tie-ins, either with the section to be tied in or separately?* (DC.PT.PRESSTESTTIEIN.P) (detail) 195.402(c) (195.308)

Notes

5. Pressure Testing of Tie-Ins *Do records indicate pipe associated with tie-ins has been pressure tested?* (DC.PT.PRESSTESTTIEIN.R) (detail) 195.308

Notes

Design and Construction - Rural Gathering and Low Stress

1. Regulated Rural Gathering Lines *Have processes have been established for certain design and installation requirements?* (DC.RU.REGRURALGATHER.P) (detail) 195.11(d)(2) (195.11(b)(2); 195.11(b)(9); 195.11(b)(11))

Notes

2. Regulated Rural Gathering Lines *Do records demonstrate design and installation requirements for selected regulated rural gathering lines being followed?* (DC.RU.REGRURALGATHER.R) (detail) 195.11(d)(2) (195.11(b)(2); 195.11(b)(9); 195.11(b)(11))

Notes

3. Rural Low-Stress Pipelines *Are processes established for design and installation requirements of Part 195 for rural low-stress pipelines?* (DC.RU.RURALLOWSTRESS.P) (detail) 195.12(d)(2) (195.12(b)(4))

Notes

4. Rural Low-Stress Pipelines *Do records demonstrate compliance with design and installation requirements of Part 195 for selected rural low-stress pipelines?* (DC.RU.RURALLOWSTRESS.R) (detail) 195.12(d)(2) (195.12(b)(4))

Notes

Design and Construction - Special Permits

1. 80% SMYS Special Permit/Waiver: Replacement *Do records indicate pipe replaced in accordance with the design and construction requirements of Part 195 and the conditions of the Special Permit?* (DC.SP.SP.R) (detail) 190.341(d)(2) (Special Permit)

Notes

Design and Construction - Training and Qualification

1. Inspector Training *Does the process require any person performing inspections to be trained?* (DC.TQ.INSPECTORQUAL.P) (detail) 195.204

Notes

2. Inspector Training *Do inspector training and qualification records demonstrate the inspector has been trained and is qualified?* (DC.TQ.INSPECTORQUAL.R) (detail) 195.204

Notes

Design and Construction - Tanks and Storage

1. Cathodic Protection for Breakout Tanks *Is cathodic protection on breakout tanks required to be installed in accordance with API RP 651?* (DC.TS.BOCP.P) (detail) 195.402(c)(3) (195.565; 195.563(d))

Notes

2. Cathodic Protection for Breakout Tanks *Do records indicate cathodic protection installed on breakout tanks in accordance with API RP 651?* (DC.TS.BOCP.R) (detail) 195.404(c) (195.565; 195.563(d))

Notes

3. Cathodic Protection for Breakout Tanks *Is cathodic protection on breakout tanks being installed in accordance with API RP 651?* (DC.TS.BOCP.O) (detail) 195.565 (195.563(d))

Notes

4. Breakout Tank Overfill Protection *Are overfill protection systems for new or altered aboveground breakout tanks required to meet the requirements specified in §195.428(c)?* (DC.TS.BOOVERFILL.P) (detail) 195.402(c) (195.428(c))

Notes

5. Breakout Tank Overfill Protection *Do records indicate that overfill protection systems for new or altered aboveground breakout tanks meet the requirements specified in §195.428(c)?* (DC.TS.BOOVERFILL.R) (detail) 195.404 (195.428(c))

Notes

6. Breakout Tank Overfill Protection *Do overfill protection systems for new or altered aboveground breakout tanks meet the requirements specified in §195.428(c)?* (DC.TS.BOOVERFILL.O) (detail) 195.428(c)

Notes

7. Installing Bottom Linings in Aboveground Breakout Tanks *Are bottom linings required to be installed in aboveground breakout tanks to meet the requirements specified in §195.579(d)?* (DC.TS.BOBOTTOM.P) (detail) 195.402(c) (195.579(d))

Notes

8. Installing Bottom Linings in Aboveground Breakout Tanks *Do records indicate the installation of bottom linings in aboveground breakout tanks that meet the requirements specified in §195.579(d)?* (DC.TS.BOBOTTOM.R) (detail) 195.404 (195.579(d))

Notes

9. Installing Bottom Linings in Aboveground Breakout Tanks *Do bottom linings being installed in aboveground breakout tanks meet the requirements specified in §195.579(d)?* (DC.TS.BOBOTTOM.O) (detail) 195.579(d)

Notes

10. Repair, Alteration and Reconstruction of Aboveground Breakout Tanks that have Been in Service *Are breakout tanks required to be repaired, altered, or reconstructed in compliance with the requirements of §195.205?* (DC.TS.BOMODIFY.P) (detail) 195.205(a) (195.205(b))

Notes

11. Repair, Alteration and Reconstruction of Aboveground Breakout Tanks that have Been in Service *Do records indicate breakout tanks repaired, altered, or reconstructed in compliance with the requirements of §195.205(b)?* (DC.TS.BOMODIFY.R) (detail) 195.266 (195.205(b))

Notes

12. Repair, Alteration and Reconstruction of Aboveground Breakout Tanks that have Been in Service *Are breakout tanks being repaired, altered, or reconstructed in compliance with the requirements of §195.205(b)?* (DC.TS.BOMODIFY.O) (detail) 195.205(b)

Notes

Emergency Preparedness and Response - Emergency Planning OPA

1. Response Plan Submittal and Approval *Has a response plan been prepared and submitted to PHMSA?* (EP.EPO.OPASUBMITTAL.R) (detail) 194.101(a)

Notes

2. Response Plan Retention Location *Is the response plan maintained at required locations?* (EP.EPO.OPALOCATION.O) (detail) 194.111(a) (194.111(b))

Notes

3. Training Records for Emergency Response Personnel *Is training for all emergency response personnel documented?* (EP.EPO.OPATRAINING.R) (detail) 194.117(b)

Notes

4. Response Plan Review and Update *Do records indicate the response plan has been adequately reviewed and updated?* (EP.EPO.OPAREVIEW.R) (detail) 194.121(a)

Notes

5. Drill Program Requirements *Do records indicate the drill program follows the National Preparedness for Response Exercise Program (PREP) guidelines?* (EP.EPO.OPADRILL.R) (detail) 194.107(c)(1)(ix)

Notes

Emergency Preparedness and Response - Emergency Response Biofuels

1. Biofuels - OPA Plans (Vapors) *Has the response plan to address ethanol vapors been revised and submitted to PHMSA?* (EP.ERB.OPABIOVAPOR.R) (detail) 194.121(a) (194.121(b))

Notes

2. Biofuels - OPA Plans (Harm) *Has the operator's statement of significant and substantial harm been reviewed and modified, as necessary, to account for the new commodity transported?* (EP.ERB.OPABIOHARM.R) (detail) 194.103(a)

Notes

3. Biofuels - OPA Plans (Worst Case) *Have the processes and resources needed to respond to a worst case discharge been modified to accommodate the new commodity?* (EP.ERB.OPABIOVOL.P) (detail) 194.107(a)

Notes

4. Biofuels - OPA Plans (Response Zone) *Have response zone appendices been modified to reflect the new commodity?* (EP.ERB.OPABIOZONE.R) (detail) 194.113(b)(6)

Notes

5. Biofuels - OPA Plans (Emergency Readiness) *Do records indicate changes been made to arrangements for response resources to accommodate the different needs of an ethanol spill, including the need for additional appropriate foams to fight ethanol fires?* (EP.ERB.OPABIOREADINESS.R) (detail) 194.115(a)

Notes

6. Biofuels - OPA Plans (Response Training) *Do records indicate the training program been revised and implemented to assure that personnel engaged in response activities understand the changes needed to respond to an ethanol spill?* (EP.ERB.OPABIOTRAINING.R) (detail) 194.117(a)(3)

Notes

7. Biofuels - O&M *Do records indicate the manual of written procedures for operations and maintenance has been reviewed and revised, as needed, to incorporate changes necessary to transport ethanol or other biofuels?* (EP.ERB.BIOOM.R) (detail) 195.402(a)

Notes

8. Biofuels - Emergency Response (Personnel) *Do records indicate training for emergency response personnel has been revised, as needed, to reflect the different conditions and response activities appropriate for ethanol emergencies and modified training implemented?* (EP.ERB.BIOTRAINING.R) (detail) 195.403(a)

Notes

9. 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) (detail) 195.403(c)

Notes

Emergency Preparedness and Response - Emergency Response Liquids

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) (detail) 195.402(a)

Notes

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) (detail) 195.402(a)

Notes

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) (detail) 195.402(a)

Notes

4. Accident Investigation Data *Does the O&M plan include processes for the gathering of data needed for reporting accidents under subpart B of this part in a timely and effective manner?* (EP.ERL.ACCIDENTDATA.P) (detail) 195.402(a) (195.402(c)(2))

Notes

5. Accident Investigation Data *Do the records demonstrate that the data needed for reporting accidents under subpart B of this part was done in a timely and effective manner?* (EP.ERL.ACCIDENTDATA.R) (detail) 195.402(a) (195.402(c)(2))

Notes

6. Accident Investigation *Does the O&M plan include processes for analyzing pipeline accidents to determine their causes?* (EP.ERL.ACCIDENTANALYSIS.P) (detail) 195.402(a) (195.402(c)(5); 195.402(c)(6))

Notes

7. Accident Investigation Data *Do records indicate pipeline accidents were analyzed to determine their causes?* (EP.ERL.ACCIDENTANALYSIS.R) (detail) 195.402(a) (195.402(c)(5))

Notes

8. 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) (detail) 195.402(a) (195.402(c)(12))

Notes

9. Liaison with Public Officials *Do records indicate liaisons are established and maintained with appropriate fire, police and other public officials and utility owners in accordance with procedures?* (EP.ERL.LIAISON.R) (detail) 195.402(a) (195.402(c)(12))

Notes

10. Receiving Notices *Does the emergency plan include processes for receiving, identifying, and classifying notices of events which need immediate response and providing notice to operator personnel or to fire, police or other appropriate officials, as appropriate, for corrective action?* (EP.ERL.NOTICES.P) (detail) 195.402(a) (195.402(e)(1))

Notes

11. Receiving Notices *Do records indicate receiving, identifying, classifying and communicating notices of events requiring immediate response in accordance with procedures?* (EP.ERL.NOTICES.R) (detail) 195.402(a) (195.402(e)(1))

Notes

*** 12. 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, or natural disaster affecting the pipeline?* (EP.ERL.RESPONSE.P) (detail) 195.402(a) (195.402(c)(4); 195.402(c)(6); 195.402(e)(2); 195.402(e)(10))

Notes

13. Emergency Response *Does the emergency plan include processes to ensure the availability of personnel, equipment, instruments, tools, and materials as needed at the scene of an emergency?* (EP.ERL.READINESS.P) (detail) 195.402(a) (195.402(e)(3))

Notes

14. Emergency Response *Does the operator ensure the availability of personnel, equipment, instruments, tools, and materials as required by its procedures?* (EP.ERL.READINESS.O) (detail) 195.402(a) (195.402(e)(3))

Notes

15. Emergency Response Release Reduction *Does the emergency plan include processes for taking necessary action; such as an emergency shutdown or pressure reduction, to minimize the volume released from any section of a pipeline system in the event of a failure?* (EP.ERL.RELEASEREDUCE.P) (detail) 195.402(a) (195.402(e)(4))

Notes

16. 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) (detail) 195.402(a) (195.402(c)(11); 195.402(e)(5))

Notes

17. Emergency Response *Does the emergency plan include procedures for minimizing public exposure to injury and probability of accidental ignition by assisting with evacuation, assisting with halting traffic on roads and railroads, or taking other appropriate action?* (EP.ERL.PUBLICHAZ.P) (detail) 195.402(a) (195.402(e)(6))

Notes

18. 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) (detail) 195.402(a) (195.402(e)(7))

Notes

19. 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) (detail) 195.402(a) (195.402(e)(7))

Notes

20. 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) (detail) 195.402(a) (195.402(e)(8))

Notes

21. Emergency Response - HVL Instruments *In the case of an HVL release, do records indicate the operator utilized appropriate instruments to address vapor clouds in accordance with its procedures?* (EP.ERL.HVLMEASURE.R) (detail) 195.402(a) (195.402(e)(8))

Notes

22. Emergency Response - Post-Accident Review *Does the emergency plan include processes for providing for a post-accident review of employee activities to determine whether the procedures were effective in each emergency and taking corrective action where deficiencies are found?* (EP.ERL.POSTEVNTREVIEW.P) (detail) 195.402(a) (195.402(e)(9))

Notes

23. Emergency Response - Post-Accident Review *Do records indicate post accident reviews of employee activities were performed to determine whether the procedures were effective in each emergency and take corrective action where deficiencies are found?* (EP.ERL.POSTEVNTREVIEW.R) (detail) 195.402(a) (195.402(e)(7); 195.402(e)(9))

Notes

24. Communication System Requirements *Does the process address emergency communication system(s)?* (EP.ERL.COMMSYS.P) (detail) 195.408(a) (195.408(b))

Notes

25. Communication System Requirements *Do records indicate emergency communication system(s) use was as required?* (EP.ERL.COMMSYS.R) (detail) 195.408(b)

Notes

26. Communication System Requirements *Is an emergency communication system provided?* (EP.ERL.COMMSYS.O) (detail) 195.408(b)

Notes

Emergency Preparedness and Response - Emergency Training of Personnel

1. Emergency Response Training *Has a continuing training program to instruct emergency response personnel been established and conducted?* (EP.ETR.TRAINING.P) (detail) 195.403(a)

Notes

2. Emergency Response Training *Do records indicate the operator provided training to its emergency response personnel as required?* (EP.ETR.TRAINING.R) (detail) 195.403(a)

Notes

3. Emergency Response Training *Do emergency response personnel demonstrate adequate skills and knowledge?* (EP.ETR.TRAINING.O) (detail) 195.403(a)

Notes

4. Emergency Response Training Performance *Does the training program contain a provision requiring an annual review of the program and the making of changes as necessary to ensure it is effective?* (EP.ETR.TRAININGREVIEW.P) (detail) 195.403(b)

Notes

5. Emergency Response Training Performance *Have annual reviews of the emergency response training program been conducted appropriate changes made as necessary to ensure it is effective?* (EP.ETR.TRAININGREVIEW.R) (detail) 195.403(b)

Notes

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

Notes

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) (detail) 195.403(c)

Notes

8. Emergency Response Supervisor Training *Do emergency response supervisors demonstrate adequate skills and knowledge?* (EP.ETR.TRAININGSUPERVISE.O) (detail) 195.403(c)

Notes

Facilities and Storage - Tanks and Storage - Inspection

1. Breakout Tank Inspection *Does the process describe the interval and method for performing inspections of breakout tanks? [Question applies to tanks that are not steel atmospheric, low pressure tanks, or HVL steel tanks built according to API 2510.]* (FS.TSAPIINSPECT.BOINSPECTION.P) (detail) 195.402(c)(3) (195.432(a))

Notes

2. Breakout Tank Inspection *Do records document that breakout tanks that are not steel atmospheric or low pressure tanks or HVL steel tanks built according to API 2510 have been inspected at the proper interval and that deficiencies found during inspections have been corrected?* (FS.TSAPIINSPECT.BOINSPECTION.R) (detail) 195.404(c)(3) (195.432(a))

Notes

3. Breakout Tank Inspection - In-service *Does the process describe the interval and method for performing routine in-service inspections of steel atmospheric or low pressure breakout tanks?* (FS.TSAPIINSPECT.BOINSRVCINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

4. Breakout Tank Inspection - In-service *Do records document that steel atmospheric or low pressure breakout tanks have received routine in-service inspections at the required intervals and that deficiencies found during inspections have been documented?* (FS.TSAPIINSPECT.BOINSRVCINSP.R) (detail) 195.404(c)(3) (195.432(b))

Notes

5. Breakout Tank Inspection - External *Does the process describe the interval and method for performing external inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?* (FS.TSAPIINSPECT.BOEXTINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

6. Breakout Tank Inspection - External *Do records document that steel atmospheric or low pressure breakout tanks have received external inspections at the required intervals and that deficiencies documented during inspections have been corrected within a reasonable time frame?* (FS.TSAPIINSPECT.BOEXTINSP.R) (detail) 195.404(c)(3) (195.432(b))

Notes

7. Breakout Tank Inspection - External UT *Does the process describe the interval and method for performing external, ultrasonic thickness inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?* (FS.TSAPIINSPECT.BOEXTUTINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

8. Breakout Tank Inspection - External UT *Do records document that steel atmospheric or low pressure breakout tanks have received ultrasonic thickness inspections at the required intervals and that deficiencies found during inspections have been documented?* (FS.TSAPIINSPECT.BOEXTUTINSP.R) (detail) 195.404(c)(3) (195.432(b))

Notes

9. Breakout Tank Inspection - Internal *Does the process describe the interval and method for performing formal internal inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?* (FS.TSAPIINSPECT.BOINTINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

10. Breakout Tank Inspection - Internal *Do records document that steel atmospheric or low pressure breakout tanks have received formal internal inspections at the required intervals and that deficiencies found during inspections have been documented?* (FS.TSAPIINSPECT.BOINTINSP.R) (detail) 195.404(c)(3) (195.432(b))

Notes

11. Breakout Tank Inspection - External Visual *Does the process describe the interval and method for performing visual external inspections of in-service pressure steel aboveground breakout tanks built to API Standard 2510?* (FS.TSAPIINSPECT.BOEXTINSPAPI2510.P) (detail) 195.402(c)(3) (195.432(c))

Notes

12. Breakout Tank Inspection - External Visual *Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 have received visual external inspections at the required intervals and that deficiencies found have been corrected?* (FS.TSAPIINSPECT.BOEXTINSPAPI2510.R) (detail) 195.404(c)(3) (195.432(c))

Notes

13. Breakout Tank Inspection -Internal In-service *Does the process describe the interval and method for performing internal inspections of in-service pressure steel aboveground breakout tanks built to API Standard 2510?* (FS.TSAPIINSPECT.BOINTINSPAPI2510.P) (detail) 195.402(c)(3) (195.432(c))

Notes

14. Breakout Tank Inspection -Internal In-service *Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 received internal inspections at the required intervals and that deficiencies found have been corrected?* (FS.TSAPIINSPECT.BOINTINSPAPI2510.R) (detail) 195.404(c)(3) (195.432(c))

Notes

15. Breakout Tank Inspection *Is the condition of steel atmospheric or low pressure tanks acceptable?* (FS.TSAPIINSPECT.BOINSPECTION.O) (detail) 195.432(a) (195.432(b); 195.432(c); 195.401(b))

Notes

Facilities and Storage - Facilities General

1. Signage *Does the process require operator signs to be posted around each pump station and breakout tank area?* (FS.FG.SIGNAGE.P) (detail) 195.402(c)(3) (195.434)

Notes

2. Signage *Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?* (FS.FG.SIGNAGE.O) (detail) 195.434

Notes

3. Facility Protection *Does the process require facilities to be protected from vandalism and unauthorized entry?* (FS.FG.PROTECTION.P) (detail) 195.402(c)(3) (195.436)

Notes

4. Facility Protection *Are facilities adequately protected from vandalism and unauthorized entry?* (FS.FG.FACPROTECT.O) (detail) 195.436

Notes

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 of the presence of flammable vapors?* (FS.FG.IGNITION.P) (detail) 195.402(c)(3) (195.438)

Notes

6. Smoking / Open Flames *Do records show precautions taken to prevent ignition sources in areas of with a potential for accumulating flammable vapors or leaking hazardous liquids?* (FS.FG.IGNITION.R) (detail) 195.404(c) (195.438)

Notes

7. 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) (detail) 195.438

Notes

8. Firefighting Equipment *Does the process require firefighting equipment at pump station/breakout tank areas?* (FS.FG.FIREPROT.P) (detail) 195.402(c)(3) (195.430(a); 195.430(b); 195.430(c))

Notes

9. Firefighting Equipment *Are records of inspections of firefighting equipment adequate?* (FS.FG.FIREPROT.R) (detail) 195.404(c)(3) (195.430(a); 195.430(b); 195.430(c))

Notes

10. Pump Station Fire Protection *Has adequate fire protection equipment been installed at pump station/breakout tank areas and is it maintained properly?* (FS.FG.FIREPROT.O) (detail) 195.430(a) (195.430(b); 195.430(c); 195.262(e))

Notes

11. Pump Station Fire Protection *Has motive power, separate from pump station power, been provided for that fire protection equipment that incorporates pumps?* (FS.FG.PSFIREPROTPWR.O) (detail) 195.262(e)

Notes

Facilities and Storage - Pump Stations

1. Pump Station Ventilation *Has adequate ventilation been provided at pump station buildings?* (FS.PS.VENTILATION.O) (detail) 195.262(a)

Notes

2. Pump Station Vapors *Have warning devices that warn of the presence of hazardous vapors been installed at new pump station buildings?* (FS.PS.VAPORALARM.O) (detail) 195.262(a)

Notes

3. Pump Station Overpressure Devices *Are there records that each safety device has been tested and found adequate under operating conditions prior to the use of the pump station?* (FS.PS.PSOVERPRESS.R) (detail) 195.262(c)

Notes

4. Pump Station Overpressure Devices *Have safety devices been installed to prevent over-pressuring new or modified pumping equipment?* (FS.PS.PSOVERPRESS.O) (detail) 195.262(b)

Notes

5. Pump Station Emergency Shutdown Devices *Has a device for activating emergency shutdown of the pump station been installed?* (FS.PS.PSESD.O) (detail) 195.262(b)

Notes

6. Pump Station Auxiliary Power *If power is needed to actuate safety devices, has an auxiliary power supply been provided?* (FS.PS.PSAUXPWR.O) (detail) 195.262(b)

Notes

7. Pump Station Location *Has on-shore pumping equipment been installed on property under the control of the operator and is that equipment at least 50 feet from the boundary of that property?* (FS.PS.PSLOCATION.O) (detail) 195.262(d)

Notes

8. Pump Station Above Ground Piping *Have above ground components within the pump station been protected from anticipated loads?* (FS.PS.ABVGRNDPIPING.O) (detail) 195.254(b)

Notes

9. Pressure Control Inspection & Testing *Does the process require testing and inspecting regulated pressure control devices at the required interval?* (FS.PS.PRESSCNTRLTEST.P) (detail) 195.402(c)(3) (195.428(a))

Notes

10. Pressure Control Inspection & Testing - HVL *Does the process require testing and inspecting regulated HVL pressure control devices at the required interval?* (FS.PS.PRESSCNTRLTESTHVL.P) (detail) 195.402(c)(3) (195.428(a))

Notes

Facilities and Storage - Tanks and Storage

1. Testing and inspecting pressure limiting devices, relief valves (except on HVL pressure breakout tanks) *Does the process require inspection and testing of pressure limiting devices, relief valves (except on HVL pressure breakout tanks), pressure regulators, or other items of pressure control at the required frequency? [Note: This question applies to HVL and non-HVL breakout tanks, except for relief valves on HVL tanks (see FS.TS.PRVTESTHVLBO.P).]* (FS.TS.PRESSREGTESTBO.P) (detail) 195.402(c)(3) (195.428(a))

Notes

2. Testing and inspecting pressure limiting devices, relief valves (except on HVL pressure breakout tanks) *Do records document testing and inspection of pressure limiting devices, relief valves (except on HVL pressure breakout tanks), pressure regulators, or other items of pressure control at the required frequency? [Note: This question applies to HVL and non-HVL breakout tanks, except for relief valves on HVL tanks (see FS.TS.PRVTESTHVLBO.R).]* (FS.TS.PRESSREGTESTBO.R) (detail) 195.404(c)(3) (195.428(a))

Notes

3. Testing HVL Breakout Tank Reliefs *Does the process require inspection and testing of pressure relief valves on HVL pressure breakout tanks at the required frequency?* (FS.TS.PRVTESTHVLBO.P) (detail) 195.402(c)(3) (195.428(b))

Notes

4. Testing HVL Breakout Tank Reliefs *Do records document testing and inspection of relief valves on HVL pressure breakout tanks at the required frequency?* (FS.TS.PRVTESTHVLBO.R) (detail) 195.404(c)(3) (195.428(b))

Notes

5. HVL Breakout Tank Pressure Relief *Do pressure control devices installed on HVL pressure breakout tanks appear to be in satisfactory mechanical condition and to be functioning properly?* (FS.TS.PRVTESTHVLBO.O) (detail) 195.428(a)

Notes

6. Breakout Tank Overfill Protection *Does the process require adequate testing and inspection of overfill devices on aboveground breakout tanks at the required interval? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.]* (FS.TS.OVERFILLBO.P) (detail) 195.402(c)(3) (195.428(a); 195.428(c); 195.428(d))

Notes

7. Breakout Tank Overfill Protection *Do records document the inspection and testing of overfill protection devices on aboveground breakout tanks at the required interval? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.]* (FS.TS.OVERFILLBO.R) (detail) 195.404(c)(3) (195.428(a); 195.428(c); 195.428(d))

Notes

8. Breakout Tank Overfill Protection *Do selected overfill protection systems on aboveground breakout tanks that were constructed or significantly altered after October 2, 2000 function properly and are they in good mechanical condition? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.]* (FS.TS.OVERFILLBO.O) (detail) 195.428(c)

Notes

9. Breakout Tank Inspection *Is the condition of steel atmospheric or low pressure tanks acceptable?* (FS.TS.BOINSPECTION.O) (detail) 195.432(a) (195.432(b); 195.432(c); 195.401(b))

Notes

10. 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.IGNITIONBO.P) (detail) 195.402(c)(3) (195.405(a))

Notes

11. Protection Against Ignitions During O&M of Breakout Tanks *Do records indicate protection against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks?* (FS.TS.IGNITIONBO.R) (detail) 195.404(c) (195.405(a))

Notes

12. Protection against Ignitions during O&M of Breakout Tanks *Is there protection provided against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks?* (FS.TS.IGNITIONBO.O) (detail) 195.405(a) (195.401(a))

Notes

13. Floating Roof Access/Egress Hazards *Does the process associated with access/egress onto floating roofs of in-service aboveground breakout tanks to perform inspection, service, maintenance or repair activities of in-service tanks indicate that the operator has reviewed and considered the potentially hazardous conditions, safety practices and procedures in API Publication 2026?* (FS.TS.FLOATINGROOF.P) (detail) 195.402(c)(3) (195.405(b))

Notes

14. Floating Roof Access/Egress Hazards *Do records indicate access/egress onto floating roofs of in-service aboveground breakout tanks to perform inspection, service, maintenance, or repair activities of in-service tanks is performed consistent with API Publication 2026?* (FS.TS.FLOATINGROOF.R) (detail) 195.404(c) (195.405(b))

Notes

15. Design of Breakout Tanks *If a breakout tank first went into service after October 2, 2000 was it designed and constructed to withstand internal pressures and external forces by being designed and constructed to the applicable API or ASME Standard or Specification?* (FS.TS.DESIGNBO.R) (detail) 194.404(c) (195.132(b))

Notes

16. Breakout Tank Impoundments *If a breakout tank first went into service after October 2, 2000 do records indicate it has an adequate impoundment?* (FS.TS.IMPOUNDBO.R) (detail) 195.404(c) (195.264(b))

Notes

17. Breakout Tank Impoundments *If a breakout tank first went into service after October 2, 2000 does it have an adequate impoundment?* (FS.TS.IMPOUNDBO.O) (detail) 195.264(b)

Notes

18. Breakout Tank Venting *Do records indicate that normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000 are adequate?* (FS.TS.VENTBO.R) (detail) 195.404(c) (195.264(d))

Notes

19. Breakout Tank Venting *Is normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000 adequate?* (FS.TS.BOVENT.O) (detail) 195.264(d)

Notes

20. Breakout Tank Pressure Testing *Have written test procedures been developed for testing repaired, altered, or reconstructed breakout tanks that were returned to service after October 2, 2000?* (FS.TS.PRESSTESTBO.P) (detail) 195.402(c) (195.307(d); 195.310(a); 195.310(b); API 653)

Notes

21. Breakout Tank Pressure Testing *Have aboveground breakout tanks been pressure tested to their corresponding API or ASME Standard or Specification and do pressure test records contain the required information?* (FS.TS.PRESSTESTBO.R) (detail) 195.310(a) (195.310(b); 195.307)

Notes

Facilities and Storage - Valves

1. Pump Station Valves *Have valves been installed at locations that allow the pump station equipment to be isolated in the event of an emergency?* (FS.VA.PSISOVALVES.O) (detail) 195.260(a)

Notes

2. Valve Maintenance *Is the process for maintaining valves in good working order adequate?* (FS.VA.VALVEMAINT.P) (detail) 195.402(c)(3) (195.420(a))

Notes

3. Valve Maintenance *Do records document maintenance performed on selected valves required for the safe operation of the pipeline?* (FS.VA.VALVEMAINT.R) (detail) 195.404(c)(2) (195.420(a))

Notes

4. Valve Maintenance *Are valves necessary for the safe operation the pipeline systems in good working order?* (FS.VA.VALVEMAINT.O) (detail) 195.420(a)

Notes

5. Valve Inspection and Testing *Are the processes for testing and inspecting mainline valves adequate and do they require the testing and inspection at the required frequency?* (FS.VA.VALVEINSP.P) (detail) 195.402(c)(3) (195.420(b))

Notes

6. Valve Inspection and Testing *Are testing and inspection of valves performed adequately?* (FS.VA.VALVEINSP.O) (detail) 195.420(b)

Notes

7. Valve Protection *Does the process give adequate direction how valves will be protected from vandalism?* (FS.VA.VALVEPROTECT.P) (detail) 195.402(c)(3) (145.420(c))

Notes

8. Valve protection *Are valves protected from unauthorized operation and vandalism?* (FS.VA.VALVEPROTECT.O) (detail) 195.420(c)

Notes

Integrity Management - Biofuels

1. Consideration of Transportation of Biofuels on Identification of Segments that can Affect an HCA *Does the process include an analysis of pipeline segments that could affect high consequence areas to determine if changes are needed due to the different nature of ethanol (e.g., viscosity, miscibility in water)?* (IM.BIO.BIOHCA.P) (detail) 195.452(f)(1) (195.6(a); 195.6(b); 195.6(c); 195.450; 195.452(a))

Notes

2. Consideration of Transportation of Biofuels on Potential Effects on HCAs due to Vapor Release *Does the process include an analysis of potential effects on HCAs due to vapor release considering the volatility of ethanol?* (IM.BIO.BIOHCAVAPOR.P) (detail) 195.452(f)(1) (195.6(a); 195.6(b); 195.6(c); 195.450; 195.452(a))

Notes

3. Consideration of Transportation of Biofuels on Risk Analysis *Do records indicate information and risk analyses were revised to reflect transport of ethanol and have potential new threats, effects of ethanol on the integrity of pipeline components, and potential changes in consequences of a release been considered?* (IM.BIO.BIORISKANALYSIS.R) (detail) 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g); 195.452(e)(1)(iv); 195.452(k))

Notes

4. Consideration of Transportation of Biofuels on Assessment Methods *Do records indicate consideration of new/additional assessment methods that may be needed or whether IM assessments should be conducted more frequently?* (IM.BIO.BIOASSESSMETHOD.R) (detail) 195.452(l)(1)(ii) (195.452(f)(5); 195.452(j)(5))

Notes

5. Consideration of Transportation of Biofuels on Assessment Scheduling *Do records indicate consideration of whether a change in product transported requires a change in assessment schedule?* (IM.BIO.BIOASSESSCHED.R) (detail) 195.452(l)(1)(ii) (195.452(f)(5); 195.452(j)(1); 195.452(j)(3); 195.452(e)(1)(iv); 195.452(k))

Notes

6. Consideration of Transportation of Biofuels on Leak Detection Systems to Protect an HCA *Does the process for evaluation of leak detection require a determination of adequacy to protect high consequence areas considering the nature and different consequences of an ethanol release?* (IM.BIO.BIOLEAKDET.P) (detail) 195.452(f)(6) (195.452(i)(3))

Notes

7. Consideration of Transportation of Biofuels on Leak Detection Systems to Protect an HCA *Do records indicate consideration of the need for additional preventive and mitigative measures to address new/increased threats or consequences posed by ethanol or biofuels?* (IM.BIO.BIOLEAKDET.R) (detail) 195.452(l)(1)(ii) (195.452(i)(3); 195.452(f)(6))

Notes

8. Consideration of Transportation of Biofuels on Preventive and Mitigative Measures *Do records indicate consideration of the need for additional preventive and mitigative measures to address new/increased threats or consequences posed by ethanol or biofuels?* (IM.BIO.BIOPMM.R) (detail) 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2))

Notes

9. Consideration of Transportation of Biofuels on Need for Additional EFRDs *Do records indicate consideration of whether additional EFRDs are needed to protect high consequence areas given ethanol's miscibility in water?* (IM.BIO.BIOEFRD.R) (detail) 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(4))

Notes

10. Consideration of Transportation of Biofuels on Need for Additional Performance Measures *Does the process require a determination of additional performance measures to the IM program to measure potential effects of ethanol?* (IM.BIO.BIOPERFMEAS.P) (detail) 195.452(f)(7) (195.452(k))

Notes

Integrity Management - Continual Evaluation and Assessment

1. IMP Periodic Evaluation *Does the process include adequate provisions for performing periodic evaluations of pipeline integrity?* (IM.CA.PERIODICEVAL.P) (detail) 195.452(f)(5) (195.452(e); 195.452(j)(1); 195.452(j)(2); 195.452(g))

Notes

2. IMP Periodic Evaluation *Do records indicate that periodic evaluations of pipeline integrity are performed on a technically justified frequency?* (IM.CA.PERIODICEVAL.R) (detail) 195.452(l)(1)(ii) (195.452(f)(5); 195.452(e); 195.452(j)(1); 195.452(j)(2); 195.452(g))

Notes

3. IMP Continual Evaluation and Assessment Intervals *Did the operator's plan identify all of the risk factors that reflect the conditions on the pipeline segment to establish an assessment schedule?* (IM.CA.ASSESSINTERVAL.P) (detail) 195.452(f)(5) (195.452(e); 195.452(g))

Notes

4. IMP Continual Evaluation and Assessment Intervals *Are assessment intervals consistent with the risks identified for the pipeline and the results of previous assessments?* (IM.CA.ASSESSINTERVAL.R) (detail) 195.452(l)(1)(ii) (195.452(f)(5); 195.452(e); 195.452(j)(1); 195.452(j)(3))

Notes

5. IMP Continual Evaluation and Assessment Methods *Does process specify the assessment methods that are appropriate for the pipeline specific integrity threats?* (IM.CA.ASSESSMETHOD.P) (detail) 195.452(f)(5) (195.452(j)(5); 195.452(g))

Notes

6. IMP Continual Evaluation and Assessment Methods *Are assessment methods shown in the assessment plan appropriate for the pipeline specific integrity threats?* (IM.CA.ASSESSMETHOD.R) (detail) 195.452(l)(1)(ii) (195.452(f)(5); 195.452(j)(5))

Notes

7. IMP Continual Evaluation and Assessment Interval Variance Notification *Does the process include adequate methodology for submitting variance notifications to PHMSA for assessment intervals longer than the 5-year maximum assessment interval and unavailable technology?* (IM.CA.ASSESSNOTIFY.P) (detail) 195.452(f)(5) (195.452(j)(4); 195.452(m))

Notes

8. IMP Continual Evaluation and Assessment Interval Variance Notification *Have variance notifications been submitted to PHMSA for assessment intervals longer than the 5-year maximum assessment interval and unavailable technology?* (IM.CA.ASSESSNOTIFY.R) (detail) 195.452(l)(1)(ii) (195.452(f)(5); 195.452(m); 195.452(j)(4))

Notes

Integrity Management - High Consequence Areas

1. IMP HCA Definitions *Does the operator's plan include all of the definitions of an HCA?* (IM.HC.HCADEFINITION.P) (detail) 195.450 (195.6)

Notes

2. IMP High Consequence Areas HCA Identification *Does the process that requires identification of segments of HCA-affecting segments include steps to identify, document, and maintain up-to-date geographic locations and boundaries of HCAs using the NPMS and other information sources as necessary?* (IM.HC.HCALOCATION.P) (detail) 195.452(f)(1) (195.452(a); 195.452(d)(3))

Notes

3. IMP High Consequence Areas HCA Identification *Do records show that locations and boundaries of HCA-affecting segments are correctly identified and maintained up-to-date?* (IM.HC.HCALOCATION.R) (detail) 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a); 195.452(b)(2); 195.452(d)(3))

Notes

4. IMP High Consequence Areas HCA Identification *Are locations and boundaries of segments that can affect HCAs correctly identified and maintained up-to-date?* (IM.HC.HCALOCATION.O) (detail) 195.452(b)(5) (195.452(a); 195.452(b)(2); 195.453(f)(1))

Notes

5. IMP High Consequence Areas Direct Intersect Method and Direct Intersect Exceptions *Is the process adequate to determine all locations where pipeline systems "could affect" a high consequence area, including pipelines that are located in HCAs?* (IM.HC.HCAIDENT.P) (detail) 195.452(f)(1) (195.452(a))

Notes

6. IMP High Consequence Areas Direct Intersect Method and Direct Intersect Exceptions *Do records indicate that all locations where a pipeline system is located in an HCA are determined and, if any exceptions for segments that directly intersect an HCA are taken, an adequate and convincing technical justification is provided?* (IM.HC.HCAIDENT.R) (detail) 195.452(l)(1)(ii) (195.452(f)(1); 195.6(a); 195.6(b); 195.6(c); 195.450; 195.452(a))

Notes

7. IMP High Consequence Areas Release Locations and Spill Volumes *Does the process include technically adequate methods to determine the locations/scenarios and volume of potential commodity releases?* (IM.HC.HCARELEASE.P) (detail) 195.452(f)(1) (195.452(a))

Notes

8. IMP High Consequence Areas Release Locations and Spill Volumes *Do records indicate that identified release locations and spill volumes are appropriate, technically adequate, and determined consistent with the documented process?* (IM.HC.HCARELEASE.R) (detail) 195.452(l)(1)(ii) (195.452(f)(1); 195.6(a); 195.6(b); 195.6(c); 195.450; 195.452(a))

Notes

9. IMP High Consequence Areas Overland Spread of Liquid Pool *Does the process include a technically adequate analysis of overland flow of liquids to determine the extent of commodity spread and its effects on HCAs?* (IM.HC.HCAOVERLAND.P) (detail) 195.452(f)(1) (195.452(a))

Notes

10. IMP High Consequence Areas Overland Spread of Liquid Pool *Do records indicate the overland spread analysis (if applicable) is technically adequate and consistent with program requirements?* (IM.HC.HCAOVERLAND.R) (detail) 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))

Notes

11. IMP High Consequence Areas Water Transport Analysis *Does the process include a technically adequate analysis approach for water transport of liquids to determine the extent of commodity spread and its effects on HCAs?* (IM.HC.HCAH2OTRANSP.P) (detail) 195.452(f)(1) (195.452(a))

Notes

12. IMP High Consequence Areas Water Transport Analysis *Do records indicate that water transport analysis (if applicable) is technically adequate and consistent with its program requirements?* (IM.HC.HCAH2OTRANSP.R) (detail) 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))

Notes

13. IMP High Consequence Areas Air Dispersion Analysis *Does the process include a technically adequate analysis of the dispersion of vapors from the release of highly volatile liquids and volatile liquids to determine effects on HCAs?* (IM.HC.HCAAIRDISP.P) (detail) 195.452(f)(1) (195.452(a))

Notes

14. IMP High Consequence Areas Air Dispersion Analysis *Do records indicate that the analysis of air dispersion of vapors (if applicable) is technically adequate and consistent with its program requirements?* (IM.HC.HCAAIRDISP.R) (detail) 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))

Notes

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

Notes

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

Notes

17. IMP High Consequence Areas Timely Completion of Segment Identification *Does the process require completion of segment identification for Category 3 pipelines prior to beginning of operation?* (IM.HC.HCACAT3.P) (detail) 195.452(f)(1) (195.452(b)(2))

Notes

18. IMP High Consequence Areas Timely Completion of Segment Identification *Do records indicate completion of segment identification for Category 3 pipelines prior to beginning of operation?* (IM.HC.HCACAT3.R) (detail) 195.452(l)(1)(ii) (195.452(f)(1); 195.452(b)(2))

Notes

19. HCA Analysis Validity Check *Does the HCA analysis bound historical releases/accidents?* (IM.HC.HCABOUNDING.R) (detail) 195.452(f)(1) (195.452(b)(4))

Notes

Integrity Management - Preventive and Mitigative Measures

1. P&M Measures Actions Considered *Do the processes to identify additional preventive and mitigative actions include consideration of risk and cover a spectrum of alternatives? (Note: Leak detection and EFRDs are covered in more detail in subsequent questions within this sub-module.)* (IM.PM.PMMGENERAL.P) (detail) 195.452(f)(6) (195.452(i)(1); 195.452(i)(2))

Notes

2. P&M Measures Actions Considered *Is there documentation of preventive and mitigative actions that have been considered and implemented?* (IM.PM.PMMGENERAL.R) (detail) 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2))

Notes

3. P&M Measures Actions Implemented *Have preventive and mitigative actions been implemented as described in the records?* (IM.PM.PMMIMPLEMENT.O) (detail) 195.452(f)(6) (195.452(i)(1); 195.452(i)(2); 195.452(i)(3); 195.452(i)(4))

Notes

4. P&M Measures Risk Analysis Application *Does the process evaluate the effects of potential actions on reducing the likelihood and consequences of pipeline releases?* (IM.PM.PMMRISK.P) (detail) 195.452(f)(6) (195.452(i)(1); 195.452(i)(2))

Notes

5. P&M Measures Risk Analysis Application *Do records demonstrate evaluation of the effects of potential actions on reducing the likelihood and consequences of pipeline releases?* (IM.PM.PMMRISK.R) (detail) 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2))

Notes

6. P&M Measures Decision Basis *Does the process provide adequate basis for deciding which candidate preventive and mitigative actions are implemented?* (IM.PM.PMMBASIS.P) (detail) 195.452(f)(6) (195.452(i)(1); 195.452(i)(2))

Notes

7. P&M Measures Decision Basis *Do records indicate that the P&MM decision making process has been applied as specified?* (IM.PM.PMMBASIS.R) (detail) 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2))

Notes

8. Consideration of Transportation of Biofuels on Preventive and Mitigative Measures *Do the processes to identify additional preventive and mitigative actions include consideration of risk and cover a spectrum of alternatives for transport of ethanol or biofuels?* (IM.BIO.BIOPMM.P) (detail) 195.452(f)(6) (195.452(i)(1); 195.452(i)(2))

Notes

9. P&M Measures Leak Detection Capability Evaluation *Does the process for evaluating leak detection capability consider all of the 195.452(i)(3) required factors and other relevant factors?* (IM.PM.IMLEAKDETEVAL.P) (detail) 195.452(f)(6) (195.452(i)(3))

Notes

10. P&M Measures Leak Detection Capability Evaluation *Do records indicate that all required and other relevant leak detection evaluation factors have been adequately evaluated?* (IM.PM.IMLEAKDETEVAL.R) (detail) 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(3))

Notes

11. High Consequence Area Protection *What leak detection measures are taken to prevent and mitigate the consequences of a pipeline failure on an HCA?* (IM.PM.IMLEAKDETHCA.R) (detail) 195.452(l)(1)(ii) (195.452(i)(3))

Notes

12. High Consequence Area Protection *Have leak detection measures taken to prevent and mitigate the consequences of a pipeline failure in an HCA been implemented?* (IM.PM.IMLEAKDETHCA.O) (detail) 195.452(i)(3)

Notes

13. P&M Measures EFRD Need Evaluation *Do processes for evaluating the need for additional EFRDs consider all of the 195.452(i)(4) required factors and other relevant factors?* (IM.PM.PMMEFRD.P) (detail) 195.452(f)(6) (195.452(i)(4))

Notes

14. P&M Measures EFRD Need Evaluation *Do records indicate that all required and other relevant EFRD evaluation factors were adequately evaluated and any actions taken as appropriate?* (IM.PM.PMMEFRD.R) (detail) 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(4))

Notes

15. P&M Measures EFRD Need Evaluation *Have identified EFRD projects been implemented as planned?* (IM.PM.PMMEFRD.O) (detail) 195.452(i)(4)

Notes

Integrity Management - Quality Assurance

1. Performance Measures *Does the process include an adequate set of performance measures to provide meaningful insight into integrity management program performance?* (IM.QA.IMPERFMEAS.P) (detail) 195.452(f)(7) (195.452(k))

Notes

2. Performance Measures *Does the operator's evaluation of the selected performance measures provide meaningful insight into integrity management program performance?* (IM.QA.IMPERFMEAS.R) (detail) 195.452(l)(1)(ii) (195.452(f)(7); 195.452(k))

Notes

3. Record Keeping *Is the process adequate to assure that the records required for integrity management program applications are maintained?* (IM.QA.RECORDS.P) (detail) 195.452(l) (195.404(c)(1); 195.452(c)(2))

Notes

4. Record Keeping *From a review of records, has the operator documented decisions, analysis, and actions taken to implement and evaluate each key integrity management program activity?* (IM.QA.RECORDS.R) (detail) 195.452(l)(1)(ii) (195.452(c)(2))

Notes

Integrity Management - Risk Analysis

1. Risk Analysis Comprehensiveness of Approach *Do processes for evaluating risk to HCAs require consideration of all relevant threat categories and risk factors when evaluating pipeline segments?* (IM.RA.RAMETHOD.P) (detail) 195.452(f)(3) (195.452(g))

Notes

2. Risk Analysis Integration of Risk Information *Do processes for evaluating risk to HCAs include the appropriate risk factors and other information?* (IM.RA.RAINTEGRATE.P) (detail) 195.452(f)(3) (195.452(g))

Notes

3. Stress Corrosion Cracking Risk *Does the IM risk assessment process give adequate criteria for evaluating and determining if stress corrosion cracking is a threat on the pipeline(s)?* (IM.RA.SCCRISK.P) (detail) 195.452(f)(3) (195.452(g))

Notes

4. Stress Corrosion Cracking Risk *Has an IM risk assessment been performed addressing the threat of stress corrosion cracking on their pipeline segments that could affect an HCA?* (IM.RA.SCCRISK.R) (detail) 195.452(l)(1)(ii) (195.452(f)(3))

Notes

5. Risk Analysis Input Information *Are processes for data and information input into the risk analysis process adequate and appropriate?* (IM.RA.RADATA.P) (detail) 195.452(f)(3) (195.452(g))

Notes

6. Risk Analysis Input Information *Are adequate data and information input into the risk analysis process?* (IM.RA.RADATA.R) (detail) 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g))

Notes

7. Risk Analysis Input Information *Are conditions on the pipeline segments accurately reflected in the appropriate risk assessment data and information?* (IM.RA.RADATA.O) (detail) 195.452(f)(3) (195.452(g))

Notes

8. Subdivision of Pipeline Segments for Risk Analysis Purposes *Does the risk analysis process adequately represent and consider the variation in risk factors along the line such that segment-specific risk results and insights are obtained?* (IM.RA.RASEGMENT.P) (detail) 195.452(f)(3) (195.452(g))

Notes

9. Risk Analysis Results *Are results of the process to evaluate risk useful for drawing conclusions and insights for decision making?* (IM.RA.RARESULTS.R) (detail) 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g))

Notes

10. Risk Analysis Facilities *Does the process include technically adequate approaches to identify and evaluate the risks of facilities that can affect HCAs?* (IM.RA.RAFACILITY.P) (detail) 195.452(f)(3) (195.452(g))

Notes

11. Risk Analysis Facilities *Has the analysis of risk of facilities been performed as required?* (IM.RA.RAFACILITY.R) (detail) 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g))

Notes

Maintenance and Operations - Low-Stress Rural Pipelines

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

Notes

2. Categorizing Rural Low Stress Pipelines *Do records show that rural low stress pipelines were properly categorized?* (MO.LS.CATEGORIZATION.R) (detail) 195.12(f) (195.12(b)(1); 195.12(b)(2); 195.12(b)(3); 195.452(a))

Notes

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

Notes

4. Segment Identification *Does the process require that segment identification be completed by the deadline for its applicable category?* (MO.LS.SEGMENTID.P) (detail) 195.12(c) (195.12(c)(1); 195.12(c)(2); 195.12(c)(3))

Notes

5. Segment Identification *Do records show that all pipeline segments were identified by the deadline for its applicable category?* (MO.LS.SEGMENTID.R) (detail) 195.12(f) (195.12(c)(1); 195.12(c)(2); 195.12(c)(3))

Notes

6. Developing an IM Plan *Has an IM Plan meeting the requirements of 195.452 been developed by the applicable deadline for Category 1 and 2 pipeline segments?* (MO.LS.IMPLAN.P) (detail) 195.12(c) (195.12(c)(1); 195.12(c)(2); 195.12(c)(3); 195.452(f))

Notes

7. Developing an IM Plan *Do records show that an IM Plan was developed by the applicable deadline for Category 1 and 2 pipeline segments?* (MO.LS.IMPLAN.R) (detail) 195.12(f) (195.12(c)(1); 195.12(c)(2); 195.452(l)(1)(i))

Notes

8. Completing Baseline Assessments *Does the process require that baseline assessments be completed within the timeframe for the applicable pipeline segment category and within the prioritized schedule based on risk?* (MO.LS.BASELINEASSESS.P) (detail) 195.12(c) (195.12(c)(1); 195.12(c)(2); 195.452(e))

Notes

9. Completing Baseline Assessments *Do records show that baseline assessments have be completed within the timeframe for the applicable pipeline segment category and within the prioritized schedule based on risk?* (MO.LS.BASELINEASSESS.R) (detail) 195.12(f) (195.12(c)(1); 195.12(c)(2); 195.452(l)(1)(i))

Notes

10. Compliance with Part 195 *Does the process require compliance with applicable Subparts of Part 195 by the required timeframe for a segment's category?* (MO.LS.COMPLIANCE.P) (detail) 195.12(c) (195.12(c)(1); 195.12(c)(2); 195.12(c)(3))

Notes

11. Compliance with Part 195 *Do records show compliance with all applicable subparts of Part 195 by the required timeframes?* (MO.LS.COMPLIANCE.R) (detail) 195.12(f) (195.12(c)(1); 195.12(c)(2); 195.12(c)(3))

Notes

12. IM Program Continuation *Does the process include adequate provisions to continue to carry out the program in compliance with 195.452?* (MO.LS.IMPROGCONT.P) (detail) 195.12(c)(3) (195.452)

Notes

13. IM Program Continuation *Do records indicate that the process to continually carry out the requirements of 195.452 was met?* (MO.LS.IMPROGCONT.R) (detail) 195.12(f) (195.12(c)(1); 195.12(c)(2); 195.452(l)(1)(ii))

Notes

14. Changes in USAs *Does the process require that changes in USAs be handled in accordance with 195.12(e)?* (MO.LS.CHANGEINUSA.P) (detail) 195.12(e) (195.12(e)(1); 195.12(e)(2); 195.452(e)(3))

Notes

15. Changes in USAs *Do records show that changes in USAs were handled in accordance with 195.12(e)?* (MO.LS.CHANGEINUSA.R) (detail) 195.12(f) (195.12(e)(1); 195.12(e)(2); 195.452(l)(1)(ii))

Notes

16. Records Retention *Does the process require that records be kept in accordance with 195.12(f)?* (MO.LS.RECORDSRETENTION.P) (detail) 195.12(f) (195.12(f)(1); 195.12(f)(2))

Notes

17. Records Retention *Do records show that the requirements of 195.12(f) for records retention have been met?* (MO.LS.RECORDSRETENTION.R) (detail) 195.12(f) (195.12(f)(1); 195.12(f)(2))

Notes

Maintenance and Operations - Liquid Pipeline Overpressure Protection

1. Over Pressure Protection *Does the process contain procedures for inspecting and testing each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment to determine that it is functioning properly, in good mechanical condition, has adequate capacity, and is reliable on non-HVL pipelines at intervals not to exceed 15 months, but at least once each calendar year?* (MO.LMOPP.PRESSREGTEST.P) (detail) 195.402(c)(3) (195.428(a))

Notes

2. Over Pressure Protection *Do records indicate inspection and testing of each overpressure safety device on its non-HVL pipelines at intervals not to exceed 15 months, but at least once each calendar year?* (MO.LMOPP.PRESSREGTEST.R) (detail) 195.404(c) (195.428(a))

Notes

3. Over Pressure Protection - HVL *Does the process contain procedures for inspecting and testing each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment to determine that it is functioning properly, in good mechanical condition, has adequate capacity, and is reliable on HVL pipelines at intervals not to exceed 7-1/2 months, but at least twice each calendar year?* (MO.LMOPP.PRESSREGTESTHVL.P) (detail) 195.402(c)(3) (195.428(a))

Notes

4. Over Pressure Protection - HVL *Do records indicate inspection and testing of each overpressure safety device on HVL pipelines at intervals not to exceed 7-1/2 months, but at least twice each calendar year?* (MO.LMOPP.PRESSREGTESTHVL.R) (detail) 195.404(c) (195.428(a))

Notes

5. Over Pressure Protection *Are inspections of overpressure safety devices adequate (including HVL lines)?* (MO.LMOPP.PRESSREGTEST.O) (detail) 195.428(a)

Notes

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) (detail) 195.402(c)(3) (195.426)

Notes

7. Launcher and Receiver Pressure Relief *Are launchers and receivers equipped with relief devices?* (MO.LMOPP.LAUNCHRECVRELIEF.O) (detail) 195.426

Notes

Maintenance and Operations - Liquid Pipeline Startup and Shutdown Operations

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) (detail) 195.402(a) (195.402(c)(7))

Notes

2. Normal Maintenance and Operations - Startup & Shutdown *Do records indicate the operator assured that pressure limitations on the pipeline were not exceeded during startups or shut-ins?* (MO.LOOPER.PRESSURELIMIT.R) (detail) 195.404(b) (195.402(c)(7))

Notes

3. Normal Maintenance and Operations - Non-Fail Safe *In the case of a pipeline that is not equipped to fail safe, does the process include procedures for monitoring from an attended location pipeline pressure during startup until steady state pressure and flow conditions are reached and during shut-in to assure operation within the limits of §195.406?* (MO.LOOPER.FAILSAFE.P) (detail) 195.402(a) (195.402(c)(8))

Notes

4. Normal Maintenance and Operations - Non-Fail Safe *Do records indicate pressures and flow conditions were monitored as required on pipelines that are not equipped to fail safe?* (MO.LOOPER.FAILSAFE.R) (detail) 195.402(a) (195.402(c)(8))

Notes

5. Normal Maintenance and Operations - Non-Fail Safe *Does the operator have the ability to monitor the pipeline pressure and flow conditions from an attended location on a pipeline that is not designed to fail safe?* (MO.LOOPER.FAILSAFE.O) (detail) 195.402(a) (195.402(c)(8))

Notes

Maintenance and Operations - Liquid Pipeline Abnormal Operations

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) (detail) 195.402(a) (195.402(d)(1))

Notes

2. 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) (detail) 195.402(a) (195.402(d)(2))

Notes

3. Abnormal Operating Procedures - Correction *Does the process include procedures for correcting variations from normal operation of pressure and flow equipment and controls?* (MO.ABNORMAL.ABNORMALCORRECT.P) (detail) 195.402(a) (195.402(d)(3))

Notes

4. 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) (detail) 195.402(a) (195.402(d)(4))

Notes

5. Abnormal Operating Procedures *Do records indicate operator's personnel responded to indications of abnormal operations as required by the written procedures?* (MO.ABNORMAL.ABNORMAL.R) (detail) 195.404(b) (195.402(d)(1))

Notes

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) (detail) 195.402(a) (195.402(d)(5))

Notes

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 deficiencies were found?* (MO.ABNORMAL.ABNORMALREVIEW.R) (detail) 195.404(b) (195.402(d)(5))

Notes

Maintenance and Operations - Liquid Pipeline MOP

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) (detail) 195.402(c)(3) (195.302(c); 195.406(a); 195.406(a)(1); 195.406(a)(2); 195.406(a)(3); 195.406(a)(4); 195.406(a)(5))

Notes

2. Establishing Maximum Operating Pressure *Do records indicate the maximum operating pressure was established in accordance with §195.406?* (MO.LOMOP.MOPDETERMINE.R) (detail) 195.402(c)(3) (195.406(a); 195.406(b); 195.302(b); 195.302(c))

Notes

Maintenance and Operations - Biofuels

1. Biofuels - Compatibility *Does the process require determination that ethanol or other biofuels are compatible with the pipeline and components?* (MO.BIO.BIOCOMPATIBLE.P) (detail) 195.402(c)(3)

Notes

2. Biofuels - Operations and Maintenance Procedures *Has the manual of written procedures for operations and maintenance been reviewed and revised, as needed, to incorporate changes necessary to transport ethanol or other biofuels?* (MO.BIO.BIOOM.P) (detail) 195.402(a)

Notes

3. Biofuels - Safety Related Conditions *Does the process require review of procedures for identifying safety-related conditions to determine if changes are needed to reflect potentially different situations that could result in an imminent hazard?* (MO.BIO.BIOSRCR.P) (detail) 195.402(a) (195.402(f))

Notes

Maintenance and Operations - Liquid Conversion

1. Conversion to Service *If any pipelines were converted into Part 195 service, was a process developed addressing all the applicable requirements?* (MO.LC.CONVERSION.P) (detail) 195.5(a) (195.5(b); 195.5(c))

Notes

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

Notes

Maintenance and Operations - Liquid Pipeline Maintenance

1. Valve Maintenance *Does the process contain procedures for maintaining each valve in good working order that is necessary for safe operation of the pipeline system?* (MO.LM.VALVEMAINT.P) (detail) 195.402(c)(3) (195.420(a))

Notes

2. Valve Maintenance - Biannual *Does the process contain procedures for inspecting each mainline valve to determine that it is functioning properly at intervals not exceeding 7-1/2 months, but at least twice each calendar year?* (MO.LM.VALVEMAINTBIANN.P) (detail) 195.402(c)(3) (195.420(b))

Notes

3. Valve Maintenance *Do records indicate each mainline valve was inspected as required?* (MO.LM.VALVEMAINT.R) (detail) 195.404(c) (195.420(a); 195.420(b))

Notes

4. Valve Protection *Does the process contain procedures for providing protection for each valve from unauthorized operation and from vandalism?* (MO.LM.VALVEPROTECT.P) (detail) 195.402(c)(3) (195.420(c))

Notes

5. 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) (detail) 195.420(a) (195.420(c))

Notes

6. 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) (detail) 195.402(c)(3) (195 Subpart H)

Notes

Maintenance and Operations - Liquid Pipeline Operations

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

Notes

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) (detail) 195.402(a)

Notes

3. O&M Manual Locations *Are appropriate parts of the manual kept at locations where operations and maintenance activities are conducted?* (MO.LO.OMLOCATION.O) (detail) 195.402(a)

Notes

4. Normal Maintenance and Operations - History *Does the process include procedures for making construction records, maps, and operating history available as necessary for safe operation and maintenance?* (MO.LO.OMHISTORY.P) (detail) 195.402(a) (195.402(c)(1); 195.404(a); 195.404(a)(1); 195.404(a)(2); 195.404(a)(3); 195.404(a)(4); 195.404(c)(1); 195.404(c)(2); 195.404(c)(3))

Notes

5. Normal Maintenance and Operations - History *Do records indicate current maps and records of its pipeline systems are maintained and made available as necessary?* (MO.LO.OMHISTORY.R) (detail) 195.404(a) (195.404(b); 195.404(c); 195.9; 195.402(c)(1))

Notes

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

Notes

7. Normal Maintenance and Operations - Abandoning *Does the process include procedures for abandoning pipeline facilities, including safe disconnection from an operating pipeline system, purging of combustibles, and sealing abandoned environmental hazards?* (MO.LO.ABANDON.P) (detail) 195.402(a) (195.402(c)(10))

Notes

8. Normal Maintenance and Operations - Abandoning *Did the operator abandon pipeline segments in accordance with the written procedures?* (MO.LO.ABANDON.R) (detail) 195.402(a) (195.402(c)(10))

Notes

9. Normal Maintenance and Operations - Effectiveness Review *Does the process include procedures for periodically reviewing the work done by the operator's personnel to determine the effectiveness of the procedures used in normal operation and maintenance and taking corrective action where deficiencies are found?* (MO.LO.OMEFFECTREVIEW.P) (detail) 195.402(a) (195.402(c)(13))

Notes

10. Normal Maintenance and Operations - Effectiveness Review *Do records indicate periodic review of the work done by operator personnel to determine the effectiveness of the procedures used in normal operation and maintenance and corrective action taken where deficiencies are found?* (MO.LO.OMEFFECTREVIEW.R) (detail) 195.402(a) (195.402(c)(13))

Notes

11. Safety Related Conditions Reports *Does the process include instructions that allow personnel to recognize safety related conditions?* (MO.LO.SRCR.P) (detail) 195.402(a) (195.402(f))

Notes

12. Pipeline Pressure Testing *Does the process require pressure testing for all lines except as allowed by §195.302(b)?* (MO.LO.PRESSTESTREQ.P) (detail) 195.402(c)(3) (195.302(b); 195.302(c))

Notes

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

Notes

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

Notes

*** 15. Regulated Rural Gathering Lines** *Does the process for regulated rural gathering lines include all the requirements of 195.11?* (MO.LO.REGRURALGATHER.P) (detail) 195.11(a) (195.11(b); 195.11(c); 195.11(d))

Notes

16. Operating Records *Does the O&M plan include a requirement that operating records that relate to 195.402 activities be maintained for at least 3 years?* (MO.LO.RECORDS.P) (detail) 195.402(a) (195.402(c)(3); 195.404(b); 195.404(b)(1); 195.404(b)(2))

Notes

17. Operating Records *Does the operator maintain operating records for a minimum of 3 years?* (MO.LO.RECORDS.R) (detail) 195.404(b) (195.402(c)(3))

Notes

Public Awareness and Damage Prevention - One-Call Damage Prevention

1. Documented Damage Prevention Program *Does the operator have a damage prevention program approved and in place?* (PD.OC.PROGRAM.P) (detail) 195.442(a)

Notes

2. Participation in Qualified One-Call Systems *Does the process require participation in qualified one-call systems?* (PD.OC.ONECALL.P) (detail) 195.442(a) (195.442(b); CGA Best Practices, v4.0, Practice 3-4)

Notes

3. Documented Damage Prevention Program *Does the process include public notification requirements?* (PD.OC.PUBLICNOTIFY.P) (detail) 195.442(a) (195.442(c)(2))

Notes

4. Construction Marking *Does the process require marking proposed excavation sites to CGA Best Practices or use more stringent and accurate requirements?* (PD.OC.EXCAVATEMARK.P) (detail) 195.442(a) (195.442(b); 195.442(c)(4); 195.442(c)(5))

Notes

5. Documented Damage Prevention Program *Does the process include inspection of pipelines that could be damaged by excavation activities?* (PD.OC.EXCAVATE.P) (detail) 195.442(a) (195.442(c)(6))

Notes

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.OC.TPD.P) (detail) 195.442(a) (195.442(b); 195.442(c)(1))

Notes

7. Documented Damage Prevention Program - TPD / One-Call *Does the process specify how reports of TPD are checked against One-Call tickets?* (PD.OC.TPDONECALL.P) (detail) 195.442(a) (195.442(b); 195.442(c)(3))

Notes

8. One Call Systems *Observe operator's process for a "One Call" Ticket.* (PD.OC.ONECALL.O) (detail) 195.442(c)(3)

Notes

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

Notes

Public Awareness and Damage Prevention - Public Awareness

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

Notes

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

Notes

3. 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) (detail) 195.440(b) (API RP 1162, Section 2.7 Step 4)

Notes

4. Audience Identification *Does the program establish methods to identify the individual stakeholders in the four affected stakeholder audience groups: (1) affected public, (2) emergency officials, (3) local public officials, and (4) excavators, as well as affected municipalities, school districts, businesses, and residents?* (PD.PA.AUDIENCEID.P) (detail) 195.440(d) (195.440(e); 195.440(f); API RP 1162 Section 2.2; API RP1162 Section 3)

Notes

5. Audience Identification Records *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) (detail) 195.440(d) (195.440(e); 195.440(f); API RP 1162 Section 2.2; API RP 1162 Section 3)

Notes

6. Messages, Delivery Methods, and Frequencies *Does the program define the combination of messages, delivery methods, and delivery frequencies to comprehensively reach all affected stakeholder audiences in all areas where hazardous liquid or carbon dioxide is transported?* (PD.PA.MESSAGES.P) (detail) 195.440(c) (API RP 1162 Section 3; API RP 1162 Section 4; API RP 1162 Section 5)

Notes

7. Consideration of Supplemental Enhancements *Were relevant factors considered to determine the need for supplemental public awareness program enhancements for each stakeholder audience along all pipeline systems, as described in API RP 1162?* (PD.PA.SUPPLEMENTAL.P) (detail) 195.440(c) (API RP 1162 Section 6.2)

Notes

8. Educational Provisions *Did delivered messages specifically include provisions to educate the public, emergency officials, local public officials, and excavators on: (1) Use of a one-call notification system prior to excavation and other damage prevention activities; (2) Possible hazards associated with unintended releases from a hazardous liquid or carbon dioxide pipeline facility; (3) Physical indications of a possible release; (4) Steps to be taken for public safety in the event of a hazardous liquid or carbon dioxide pipeline release; and (5) Procedures to report such an event?* (PD.PA.EDUCATE.R) (detail) 195.440(d) (195.440(f))

Notes

9. Messages on Pipeline Facility Locations *Were messages developed and delivered to advise affected municipalities, school districts, businesses, and residents of pipeline facility location?* (PD.PA.LOCATIONMESSAGE.R) (detail) 195.440(e) (195.440(f))

Notes

10. Baseline Message Delivery Frequency *Did the delivery of materials and messages meet or exceed the baseline delivery frequencies specified in API RP 1162, Table 2-1?* (PD.PA.MESSAGEFREQUENCY.R) (detail) 195.440(c) (API RP 1162 Table 2-1)

Notes

11. Liaison with Emergency and Other Public Officials *Have liaisons been established and maintained with appropriate fire, police, and other public officials?* (PD.PA.LIAISON.R) (detail) 195.440(c) (API RP 1162 Section 4.4)

Notes

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) (detail) 195.440(g) (API RP 1162 Section 2.3.1)

Notes

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) (detail) 195.440(g) (API RP 1162 Section 2.3.1)

Notes

14. Evaluation Plan *Does the program include a process that specifies how program implementation and effectiveness will be periodically evaluated?* (PD.PA.EVALPLAN.P) (detail) 195.440(i) (195.440(c); API RP 1162 Section 8; API RP 1162 Appendix E)

Notes

15. Evaluate Program Implementation *Has an audit or review of the public awareness program implementation been performed annually since the program was developed?* (PD.PA.EVALIMPL.R) (detail) 195.440(c) (195.440(i); API RP 1162 Section 8.3)

Notes

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) (detail) 195.440(c) (195.440(i); API RP 1162 Section 8.3)

Notes

17. Program Changes and Improvements *Were changes made to improve the program and/or the implementation process based on the results and findings of the annual audit(s)?* (PD.PA.PROGRAMIMPROVE.R) (detail) 195.440(c) (API RP 1162 Section 8.3)

Notes

18. Evaluating Program Effectiveness *Have effectiveness evaluation(s) of the program been performed for all stakeholder groups in all notification areas along all systems covered by the program?* (PD.PA.EVALEFFECTIVENESS.R) (detail) 195.440(c) (API RP 1162 Sections 8.4)

Notes

19. Measure Program Outreach *In evaluating effectiveness, was actual program outreach for each stakeholder audience tracked?* (PD.PA.MEASUREOUTREACH.R) (detail) 195.440(c) (API RP 1162 Section 8.4.1)

Notes

20. Measure Understandability of Message Content *In evaluating program effectiveness, was the percentage of each stakeholder audience that understood and retained the key information from the messages determined?* (PD.PA.MEASUREUNDERSTANDABILITY.R) (detail) 195.440(c) (API RP 1162 Section 8.4.2)

Notes

21. Measure Desired Stakeholder Behavior *In evaluating program effectiveness, was evaluation made of whether appropriate preventive, response, and mitigative behaviors were understood and likely to be exhibited?* (PD.PA.MEASUREBEHAVIOR.R) (detail) 195.440(c) (API RP 1162 Section 8.4.3)

Notes

22. Measure Bottom-Line Results *Did the operator attempt to measure bottom-line results of the program by tracking third-party incidents and consequences including: (1) near misses, (2) excavation damages resulting in pipeline failures, (3) excavation damages that do not result in pipeline failures?* (PD.PA.MEASUREBOTTOM.R) (detail) 195.440(c) (API RP 1162 Section 8.4.4)

Notes

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) (detail) 195.440(c) (API RP 1162 Section 2.7 (Step 12); API RP 1162 Section 8.5)

Notes

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

1. ROW Inspection Requirements *Does the process require ROW surface conditions and crossings under navigable waterways be inspected, and is reporting and appropriate mitigation required for findings from said inspections?* (PD.RW.PATROL.P) (detail) 195.402(a) (195.412(a); 195.412(b))

Notes

2. ROW Inspection Requirements *Do records indicate ROW surface conditions and crossings under navigable waterways were inspected, and reporting and appropriate mitigation performed?* (PD.RW.PATROL.R) (detail) 195.412(a) (195.412(b))

Notes

3. ROW Marker Requirements *Does the process address how line markers are to be placed and maintained?* (PD.RW.ROWMARKER.P) (detail) 195.402(a) (195.410(a); 195.410(c); API RP 1162, Section 2.7; API RP 1162, Section 8)

Notes

4. Placement of ROW Markers *Are line markers placed and maintained as required?* (PD.RW.ROWMRKR.O) (detail) 195.410(a) (195.410(b); 195.410(c); CGA Best Practices, v4.0, Practice 2-5; CGA Best Practices, v4.0, Practice 4-20)

Notes

5. ROW Conditions *Are the ROW conditions acceptable for the type of patrolling used?* (PD.RW.ROWCONDITION.O) (detail) 195.412(a)

Notes

6. DP Information Gathering Requirements *Does the process require damage prevention information to be gathered and recorded during pipeline patrols and surveillance and then analyzed?* (PD.RW.INFORMATION.P) (detail) 195.402(c)(3) (195.452(f)(3); 195.452(g))

Notes

7. DP Information Gathering Requirements *Do records show damage prevention information being gathered and recorded during pipeline patrols and surveillance and then analyzed is available for review?* (PD.RW.INFORMATION.R) (detail) 195.404(c) (195.402(c)(3); 195.452(f)(3); 195.452(g))

Notes

8. 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?* (PD.RW.GOMHAZARD.P) (detail) 195.413(a) (195.413(b); 195.413(c))

Notes

9. Identification of GOM Pipeline Hazards *Do records indicate steps taken to identify pipelines in the Gulf of Mexico at risk of being exposed underwater pipelines or hazards to navigation?* (PD.RW.GOMHAZARD.R) (detail) 195.413(b) (195.413(c))

Notes

Public Awareness and Damage Prevention - Facilities Signage and Security

1. Facility Signage Requirements *Does the process require signage visible to the public around pump station and breakout facilities?* (PD.SN.SIGNAGE.P) (detail) 195.402(a) (195.434)

Notes

2. Facility Signage *Is signage visible to the public installed and maintained around facilities?* (PD.SN.VISIBLE.O) (detail) 195.434

Notes

3. Smoking and Open Flame Prohibition *Does the process prohibit smoking and open flames around facilities?* (PD.SN.OPENFLAME.P) (detail) 195.402(a) (195.438)

Notes

4. Smoking and Open Flame Prohibition *Does signage prohibit smoking and open flames around facilities?* (PD.SN.OPENFLAME.O) (detail) 195.438

Notes

5. Facility Protection *Does the process require protection from vandalism and unauthorized entry for each exposed facility?* (PD.SN.PROTECTION.P) (detail) 195.402(a) (195.436)

Notes

6. Facility Protection *Is protection from vandalism and unauthorized entry provided for each exposed facility?* (PD.SN.PROTECTION.O) (detail) 195.436

Notes

Public Awareness and Damage Prevention - Special Permits

1. Special Permits - Repairs *If a pipeline is operated under a special permit have processes been modified to incorporate the requirements of the permit for required repairs?* (PD.SP.REPAIR.P) (detail) 190.341(d)(2)

Notes

2. Special Permits - Repairs *If a pipeline is operated under a special permit, do records indicate that required repairs were performed?* (PD.SP.REPAIR.R) (detail) 190.341(d)(2)

Notes

3. Special Permits *If a pipeline is operated under a special permit, verify that the requirements have been implemented.* (PD.SP.REQUIREMENT.O) (detail) 190.341(d)(2)

Notes

Reporting - Notices and Reporting

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) (detail) 195.505(i)

Notes

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) (detail) 195.505(i)

Notes

3. IM Notifications - Pressure Reductions *Does the process require notifying PHMSA of information when the following occurs: If it cannot meet its schedule for evaluation and remediation and cannot provide safety through a temporary reduction in operating pressure and/or when a temporary reduction in operating pressure exceeds 365 days?* (RPT.NR.NOTIFYIMPRESS.P) (detail) 195.452(f)(4) (195.452(h)(1)(i); 195.452(h)(1)(ii); 195.452(h)(3))

Notes

4. IM Variance from 5-year Intervals *Are processes adequate for submitting variance notifications to PHMSA for assessment intervals longer than the maximum five-year interval and for unavailable technology?* (RPT.NR.NOTIFYIMVARIANCE.P) (detail) 195.452(f)(5) (195.452(j)(4))

Notes

5. Notifications *Has notification been made if Other Technology is used, technology is unavailable, the 5 year reassessment interval cannot be met, remediation schedule cannot be met and pressure cannot be reduced, or a pressure reduction exceeds 365 days?* (RPT.NR.NOTIFICATIONS.R) (detail) 195.452(l)(1)(ii) (195.452(m))

Notes

6. Response Plan Submittal and Approval *Has an OPA response plan been prepared and submitted to PHMSA?* (RPT.NR.OPA.R) (detail) 194.119(a)

Notes

7. Response Plan Resubmittals and Subsequent changes *Do records indicate the OPA response plan resubmitted to PHMSA at the required times?* (RPT.NR.OPARESUBMIT.R) (detail) 194.121(a) (194.121(b))

Notes

Reporting - Regulatory Reporting (Traditional)

1. Annual Report Records *Have complete and accurate Annual Reports been submitted?* (RPT.RR.ANNUALREPORT.R) (detail) 195.49

Notes

2. Annual Report IM Inspection Data *Is Annual Report Part F Data complete and accurate?* (RPT.RR.ANNUALREPORTIMINSPECT.R) (detail) 195.49

Notes

3. Annual Report IM Assessment Completion Data *Is Annual Report Part G data complete and accurate?* (RPT.RR.ANNUALREPORTIMASSESS.R) (detail) 195.49

Notes

4. Rural Low-Stress Pipelines *Does the process comply with the reporting requirements of subpart B relating to ALL rural low stress pipelines?* (RPT.RR.RURALLOWSTRESS.P) (detail) 195.48

Notes

5. Rural Low-Stress Pipelines *Do Annual Reports include applicable information for rural low-stress hazardous liquid pipelines?* (RPT.RR.RURALLOWSTRESS.R) (detail) 195.49

Notes

6. Regulated Rural Gathering Lines *Does the process comply with the reporting requirements in subpart B relating to regulated rural gathering lines?* (RPT.RR.REGRURALGATHER.P) (detail) 195.11(b)(4)

Notes

7. Regulated Rural Gathering Lines *Do Annual Reports include applicable information for regulated rural gathering lines?* (RPT.RR.REGRURALGATHER.R) (detail) 195.49

Notes

8. Accident Reports *Does the process require preparation and filing of an accident report as soon as practicable but no later than 30 days after discovery of a reportable accident?* (RPT.RR.ACCIDENTREPORT.P) (detail) 195.54(a) (195.50(a); 195.50(b); 195.50(c); 195.50(d); 195.50(e))

Notes

9. Accident Reports *Do records indicate the original accident reports were filed as required?* (RPT.RR.ACCIDENTREPORT.R) (detail) 195.54(a) (195.50(a); 195.50(b); 195.50(c); 195.50(d); 195.50(e))

Notes

10. Supplemental Accident Reports *Does the process require preparation and filing of supplemental accident reports?* (RPT.RR.ACCIDENTREPORTSUPP.P) (detail) 195.402(a) (195.402(c)(2); 195.54(b))

Notes

11. Supplemental Accident Reports *Do records indicate accurate supplemental accident reports were filed and within the required timeframe?* (RPT.RR.ACCIDENTREPORTSUPP.R) (detail) 195.54(b)

Notes

*** 12. Immediate Reporting: Accidents** *Are procedures in place to immediately report accidents to the National Response Center?* (RPT.RR.IMMEDREPORT.P) (detail) 195.402(a) (195.402(c)(2); 195.52(b))

Notes

13. Immediate Reporting: Accidents *Do records indicate immediate notifications of accidents were made in accordance with §195.52(a)?* (RPT.RR.IMMEDREPORT.R) (detail) 195.52(a)

Notes

14. Telephonic Reporting: Exposed Pipe GOM and Inlets *Are processes in place to telephonically notify the National Response Center of exposed pipe in the Gulf of Mexico and its inlets?* (RPT.RR.TELREPORTGOM.P) (detail) 195.402(a) (195.402(c)(3); 195.413(c)(1))

Notes

15. Telephonic Reporting: Exposed Pipe GOM and Inlets *Do records indicate telephonic notification of exposed pipes in the Gulf of Mexico and its inlets were made?* (RPT.RR.TELREPORTGOM.R) (detail) 195.413(c)(1)

Notes

16. Safety Related Condition Reports *Are processes in place to file safety-related condition reports if the conditions of 195.55 are met?* (RPT.RR.SRCR.P) (detail) 195.402(a) (195.56(a))

Notes

17. Safety Related Condition Reports *Do records indicate safety-related condition reports were filed as required?* (RPT.RR.SRCR.R) (detail) 195.56(a) (195.55(a))

Notes

18. Offshore Pipeline Condition Reports *Does the process require a report to be submitted within 60 days after completing inspection of underwater pipelines in GOM and its inlets?* (RPT.RR.SRCROFFSHORE.P) (detail) 195.402(a) (195.57)

Notes

19. Offshore Pipeline Condition Reports *Do records indicate reports were submitted within 60 days of completing inspection of underwater pipelines?* (RPT.RR.SRCROFFSHORE.R) (detail) 195.413(a) (195.57)

Notes

20. Offshore Hazard to Navigation: Permit Delay *Does the process require the operator to notify PHMSA when federal or state permits cannot be obtained in time?* (RPT.RR.NOTIFYPERMITGOM.P) (detail) 195.402(a) (195.413(c)(3)(ii))

Notes

21. Offshore Hazard to Navigation: Permit Delay *Do records indicate required notification provided when permitting delayed reburial of pipe in Gulf of Mexico waters found to be a hazard to navigation?* (RPT.RR.NOTIFYPERMITGOM.R) (detail) 195.413(c)(3)(ii)

Notes

22. NPMS: Abandoned Underwater Facility Reports *Does the process require reports to be filed for each abandoned offshore pipeline facility or each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway?* (RPT.RR.NPMSABANDONWATER.P) (detail) 195.402(c)(10) (195.59(a))

Notes

23. NPMS: Abandoned Underwater Facility Reports *Do records indicate reports were filed for abandoned offshore pipeline facilities or abandoned onshore pipeline facilities that crosses over, under or through a commercially navigable waterway?* (RPT.RR.NPMSABANDONWATER.R) (detail) 195.59(a)

Notes

24. NPMS: Annual Updates *Do records indicate: NPMS submissions are updated every 12 months if system modifications (excludes distribution lines and gathering lines) occurred, and if no modifications occurred an email to that effect was submitted?* (RPT.RR.NPMSANNUAL.R) (detail) Pipeline Safety Improvement Act of 2002 (49 USC 60132) (Advisory Bulletin ADB-03-02; Advisory Bulletin ADB-08-07)

Notes

*** 25. National Registry of Pipeline Operators (OPID)** *Does the process require the obtaining, and appropriate control, of Operator Identification Numbers (OPIDs)?* (RPT.RR.OPID.P) (detail) 195.402(a) (195.64(a); 195.64(b); 195.64(c); 195.64(d))

Notes

Reporting - Special Permits

1. Special Permit or Waiver *Has the operator complied with all reporting requirements contained within its special permit or waiver?* (RPT.SP.SPWAIVER.R) (detail) 190.341(d)(2) (Special Permit)

Notes

Screening - Assessment and Repair

0. SRN.AR Submodule Summary Result *Submodule Summary* (SRN.AR.SUMMARY.S) (detail)

Notes

1. Integrity Assessment Method - ILI *Are ILI tools utilized to assess the integrity of any of the pipeline systems?* (SRN.AR.ILIUSE.S) (detail)

Notes

2. Identification of Specific Threats *Have any specific threats been identified that require specific ILI tools other than MFL and deformation/dent tools to be used on any pipeline system in the last 3 years?* (SRN.AR.ILINONMFLDEF.S) (detail)

Notes

3. Integrity Assessment Method - Pressure Testing *Is pressure testing utilized to assess the integrity of any of the pipeline systems?* (SRN.AR.PRESSTEST.S) (detail)

Notes

4. Risk Based Alternative to Pressure Testing *Is a risk based alternative to pressure testing utilized for older hazardous liquid and carbon dioxide pipelines?* (SRN.AR.RISKBASEDALT.S) (detail)

Notes

5. Integrity Assessment Method - ECDA *Is ECDA utilized to assess the integrity of any of the pipeline systems?* (SRN.AR.ECDA.S) (detail)

Notes

6. Integrity assessments that were not performed as scheduled or within required timeframes *Has the performance of any integrity assessments been delayed such that a schedule or required timeframe was exceeded?* (SRN.AR.ASSESSDELAY.S) (detail)

Notes

7. Integrity Assessment Method - Other Technology *Is "Other Technology" utilized to assess the integrity of any of the pipeline systems?* (SRN.AR.OTHERTECH.S) (detail)

Notes

8. Pressure Reductions and Shutdowns *Has a pressure reduction been taken or a pipeline shutdown in the last 3 years in response to remediating a condition identified from an integrity assessment?* (SRN.AR.PRESSREDSD.S) (detail)

Notes

9. Use of Contractor Personnel *Are contractor personnel used to perform assessment and repair tasks; and if so, what are the tasks that contractors typically perform for the operator?* (SRN.AR.CONTRACTASSESS.S) (detail)

Notes

10. Identification and Remediation of Cracks on Pipeline Systems *Have any cracks or crack-like features been identified and remediated on any pipeline systems in the last 3 years?* (SRN.AR.CRACKIDENT.S) (detail)

Notes

11. Pipe Movement or Replacement Projects *Have any pipeline movement or replacement projects been performed in the last 3 years? If so, identify the projects and locations.* (SRN.AR.LINEREPLACEMOVE.S) (detail)

Notes

12. Pipeline Susceptible Type *Is there any LFERW or lap welded pipe susceptible to longitudinal seam failure in the pipeline systems?* (SRN.AR.SUSCEPTIBLE.S) (detail)

Notes

13. Integrity Related Activities *Describe the most significant integrity assessments, remediation, replacement, and reconditioning projects that will be taking place this year.* (SRN.AR.INTEGRITYPROJECT.S) (detail)

Notes

14. Repair Criteria *Are the same repair/response criteria utilized in HCA and non-HCA's?* (SRN.AR.REPAIRCRITERIA.S) (detail)

Notes

Screening - CRM, SCADA, and Leak Detection

0. SRN.CR Submodule Summary Result *Submodule Summary* (SRN.CR.SUMMARY.S) (detail)

Notes

1. SCADA System *Discussion of the SCADA System or Remote/Field Automation utilized?* (SRN.CR.SCADACONDITION.S) (detail)

Notes

2. Control Room Logging Process *Is there a logging process for system events, alarms, and commands?* (SRN.CR.LOGGING.S) (detail)

Notes

3. Control Center Location *Where is the main Control Center located?* (SRN.CR.CONTROLCNTR.S) (detail)

Notes

4. Controller Training and Qualification *Discussion of Controller Training.* (SRN.CR.CRTRAINING.S) (detail)

Notes

5. Controllers *How many controllers are there total and per shift, and what is their work schedule/shift?* (SRN.CR.CONTROLLER.S) (detail)

Notes

6. SCADA Coverage *How are SCADA systems implemented and used in the system?* (SRN.CR.SCADACOVERAGE.S) (detail)

Notes

7. Extent of SCADA Usage/SCADA Coverage *How is a SCADA system utilized to present, handle, and respond to alarms and warning devices?* (SRN.CR.SCADAALARMS.S) (detail)

Notes

8. Use of SCADA / Automation for Compliance *Is SCADA or other forms of automation used to help achieve compliance with Federal pipeline regulations, and if so, to what extent?* (SRN.CR.SCADACOMPLY.S) (detail)

Notes

9. Leak Detection System - Method *If a computational pipeline monitoring (CPM) leak detection system is not used, then how are leaks detected?* (SRN.CR.LEAKDETMETHOD.S) (detail)

Notes

10. Leak Detection - Performance *Was the leak detection system able to detect all releases as designed, and if not, what actions were taken to address any deficiencies?* (SRN.CR.LEAKDETPERFORM.S) (detail)

Notes

Screening - Design and Construction

0. SRN.DC Submodule Summary Result *Submodule Summary* (SRN.DC.SUMMARY.S) (detail)

Notes

1. Material Compatibility *Within the last 3 years have pipelines experienced leaks due to chemical and/or temperature incompatibility between the commodity and pipeline or pipeline components (including soft goods and breakout tanks), or between different commodities while in the pipeline?* (SRN.DC.LEAKINCOMPAT.S) (detail)

Notes

2. First and Second Party Damage *Within the last 3 years have there been any "first party" (operator personnel-caused) or "second party" (operator's contractor personnel-caused) damages to in-service pipeline caused by construction activity near the line?* (SRN.DC.DAMAGE1ST2NDPARTY.S) (detail)

Notes

3. Leaks - Material and Construction Related *Any construction or material related leaks on pipelines or components (including breakout tanks) within the last 3 years?* (SRN.DC.LEAKMATCONST.S) (detail)

Notes

4. Test Failures *Have there been any post-construction (pre-commissioning) hydrotest failures within the last 3 years?* (SRN.DC.CONSTHYDROFAIL.S) (detail)

Notes

5. Construction Projects *Are construction activities scheduled to occur within the next 6 months?* (SRN.DC.CONSTRUCTION.S) (detail)

Notes

6. Pressure Tests *Are pressure tests scheduled to occur within the next 6 months on existing pipelines or existing pipeline components (tests that are to be performed independent from normal post-construction testing)?* (SRN.DC.PRESSURETEST.S) (detail)

Notes

7. Construction Projects - Biofuels *Are construction activities scheduled to occur (within the next 6 months) on pipelines that transport ethanol or other biofuels?* (SRN.DC.CONSTBIO.S) (detail)

Notes

8. Construction Projects - Contractors *Are contract workers used in performing construction tasks, if so, which activities?* (SRN.DC.CONSTCONTRACT.S) (detail)

Notes

Screening - Emergency Preparedness and Response

0. SRN.EP Submodule Summary Result *Submodule Summary* (SRN.EP.SUMMARY.S) (detail)

Notes

1. Release Volumes *Have any releases been experienced that exceeded the worst case scenario volumes contained in the OPA 90 plan?* (SRN.EP.EPRELEASE.S) (detail)

Notes

2. Emergency Response Activation *Have situations been experienced in the past 3 years that required activation of an emergency response in accordance with procedures?* (SRN.EP.EPACTIVATE.S) (detail)

Notes

3. Conduct of Drills *Have drills, including unannounced drills and/or drills outside of normal working hours, been conducted?* (SRN.EP.EPDRILLS.S) (detail)

Notes

4. Revision of Emergency Procedures *Have emergency procedures been revised in the past 3 years due to deficiencies identified during a post-incident analysis?* (SRN.EP.EPREVISION.S) (detail)

Notes

5. Revision of Emergency Response Training *Has the emergency response training program been revised in the past 3 years due to deficiencies identified during a post-incident analysis?* (SRN.EP.EPTRAINING.S) (detail)

Notes

Screening - Facilities and Storage

0. SRN.FS Submodule Summary Result *Submodule Summary* (SRN.FS.SUMMARY.S) (detail)

Notes

1. Pump Station Design *Are the Pump stations on this system a standard design?* (SRN.FS.PSDESIGN.S) (detail)

Notes

2. Construction - Tanks (Past) *Are there any steel atmospheric or low pressure tanks breakout tanks or pressure breakout tanks that have been constructed or significantly altered since October 2, 2000?* (SRN.FS.CONSTBOPAST.S) (detail)

Notes

Screening - Integrity Management

0. SRN.IM Submodule Summary Result *Submodule Summary* (SRN.IM.SUMMARY.S) (detail)

Notes

1. HCA Identification - Current *Is there record of any HCA-affecting segments in the system?* (SRN.IM.HCAPRESENT.S) (detail)

Notes

2. HCAs *Are any facilities located in high consequence areas (HCAs)?* (SRN.IM.HCAFACILITY.S) (detail)

Notes

3. HCA Identification - New *Have any new segments that can affect an HCA been identified in the last 3 years?* (SRN.IM.HCANEW.S) (detail)

Notes

4. Risk Analysis Methodologies *Describe the most significant modifications that have been made to the risk analysis processes in the last 3 years.* (SRN.IM.RAMOD.S) (detail)

Notes

5. P&M Measures Implementation *Describe the most significant preventive and mitigative measures that have been implemented in the last 3 years.* (SRN.IM.PMIMPGENERAL.S) (detail)

Notes

6. Performance Measures *What has been learned as a result of the evaluation of the performance measures?* (SRN.IM.PERFMEASURE.S) (detail)

Notes

7. Management of Change (MOC) *Describe the most significant changes that have been implemented and moved through the Management of Change (MOC) processes for risk management applications.* (SRN.IM.MOC.S) (detail)

Notes

8. IM Periodic Evaluation - Actions *Describe the most significant actions implemented as a result of a periodic evaluation for a specific pipeline segment that could affect HCAs.* (SRN.IM.PERIODICEVALACTION.S) (detail)

Notes

9. IMP Reassessment Intervals *Have any reassessment intervals for less than 5 years or more than 5 years for pipeline segments that could affect HCAs been established?* (SRN.IM.REASSESSINTRVL.S) (detail)

Notes

Screening - Maintenance and Operations

0. SRN.MO Submodule Summary Result *Submodule Summary* (SRN.MO.SUMMARY.S) (detail)

Notes

1. Fail Safe *Are any pipelines not equipped to fail safe?* (SRN.MO.FAILSAFE.S) (detail)

Notes

2. Abnormal Operating Conditions *Describe the process for responding to and learning from abnormal operation events.* (SRN.MO.ABPROCESS.S) (detail)

Notes

Screening - Multi-Module Screening Question

0. SRN.MULTI Submodule Summary Result *Submodule Summary* (SRN.MULTI.SUMMARY.S) (detail)

Notes

1. Program Oversight *Who is responsible for the following programs? (see Considerations)* (SRN.MULTI.RESPONSIBLE.S) (detail)

Notes

2. Records Location *Where are the records kept for: (see Considerations)* (SRN.MULTI.RECORDLOCATE.S) (detail)

Notes

3. Pump Station - Pressure Records *How are station discharge pressures obtained and recorded, and where are these records maintained?* (SRN.MULTI.PSDISCHRECORD.S) (detail)

Notes

4. Tracking of "Near Misses" *Are "near misses" tracked, and if so, how are "near misses" defined?* (SRN.MULTI.NEARMISS.S) (detail)

Notes

5. Asset Acquisition and Divestiture *Describe the significant asset acquisitions, mergers and divestitures in the last five years.* (SRN.MULTI.ASSETCHANGE.S) (detail)

Notes

6. Aerial Images *How often is new aerial photography/videography taken and who analyzes the new data?* (SRN.MULTI.AERIALIMAGE.S) (detail)

Notes

7. IM-Related Process and Procedure Changes Since Last IM Inspection *Describe the most significant changes to the IMP processes and procedures since the last IMP or II IMP-related inspection.* (SRN.MULTI.IMPLANMOD.S) (detail)

Notes

8. O&M - Modifications *Has the manual of written procedures been significantly modified since the last PHMSA Team O&M inspection?* (SRN.MULTI.OMPLANMOD.S) (detail)

Notes

9. Idle Pipelines *Are any pipelines currently "idle"?* (SRN.MULTI.IDLEPIPE.S) (detail)

Notes

10. Idle Pipelines - Return to Service *Have any pipelines been returned to service in the last 3 years that were previously considered to be "idle"?* (SRN.MULTI.IDLERETURN.S) (detail)

Notes

11. O&M Management of Change *How are systemic maintenance and operations changes handled?* (SRN.MULTI.OMMOC.S) (detail)

Notes

12. Conversion to Service *Have any pipeline segments been converted to service within the last 5 years?* (SRN.MULTI.CONVERSION.S) (detail)

Notes

13. Breakout Tanks *Does the system have any breakout tanks?* (SRN.MULTI.BO.S) (detail)

Notes

14. Safety Related Condition Reports *Discussion of SRCRs.* (SRN.MULTI.SRCR.S) (detail)

Notes

15. Annual Reports *Discussion of Annual Reports.* (SRN.MULTI.ANNUALREPORT.S) (detail)

Notes

16. Assets *Discussion of assets.* (SRN.MULTI.ASSETDATA.S) (detail)

Notes

17. Repairs *Discussion of anomaly repairs.* (SRN.MULTI.REPAIR.S) (detail)

Notes

18. Special Permits *Are any Waivers or Special Permits in place?* (SRN.MULTI.SPWAIVER.S) (detail)

Notes

19. New Facilities or Components *Have any new facilities or components been constructed/added within the last three years?* (SRN.MULTI.NEWFACILITIES.S) (detail)

Notes

20. Operational Restrictions *Are there any operational restrictions (for example reduced operational pressure) that have been put on the system?* (SRN.MULTI.OPERATERESTRICT.S) (detail)

Notes

21. Pressure Breakout Tanks *Are there pressurized breakout tanks containing highly volatile liquids (HVLs)?* (SRN.MULTI.BOHVL.S) (detail)

Notes

22. Facilities *Discussion of pipeline facilities within the system.* (SRN.MULTI.FACILITIES.S) (detail)

Notes

23. Enforcement *Discussion of enforcement.* (SRN.MULTI.ENFORCEMENT.S) (detail)

Notes

24. Accident / Incident Reports *Discussion of Accident Reports.* (SRN.MULTI.ACCIDENTREPORT.S) (detail)

Notes

25. Grandfathered Facilities *Are there any facilities grandfathered under various code requirements?* (SRN.MULTI.GRANDFATHER.S) (detail)

Notes

26. Post-Accident Revisions *Have any procedures been revised due to deficiencies identified during a post-event analysis of an actual or simulated emergency response?* (SRN.MULTI.POSTACCIDENTMOC.S) (detail)

Notes

27. Integrity Management Plan *Is there a single IM Plan and Program for all facilities?* (SRN.MULTI.IMPLAN.S) (detail)

Notes

28. O&M - Plan Management *Is there a single O&M Plan and Program for all facilities?* (SRN.MULTI.OMPLAN.S) (detail)

Notes

29. Transporting Biofuels *Does operator transport, or intend to transport, ethanol or other biofuels, and if so, has PHMSA been notified of the intent to transport ethanol or biofuels?* (SRN.MULTI.BIOFUEL.S) (detail)

Notes

30. Re-coating Projects *Are any pipeline re-coating project activities scheduled to occur within the next 6 months?* (SRN.MULTI.RECOAT.S) (detail)

Notes

31. Regulated Rural Gathering Lines *Are any regulated rural gathering pipelines operated?* (SRN.MULTI.REGRURALGATHER.S) (detail)

Notes

32. Regulated Rural Low Stress Lines *Are there any Category 1 or 2 low stress pipelines?* (SRN.MULTI.LOWSTRESSLINES.S) (detail)

Notes

Screening - Public Awareness and Damage Prevention

0. SRN.PD Submodule Summary Result *Submodule Summary* (SRN.PD.SUMMARY.S) (detail)

Notes

1. Public Awareness Program *Discussion of the overall Public Awareness Program.* (SRN.PD.PAPROGRAM.S) (detail)

Notes

2. Damage Prevention Program - One Call Process *Are One-Call tickets handled in one centralized location or in some other manner?* (SRN.PD.ONECALLPROCESS.S) (detail)

Notes

3. Damage Prevention Program - One Call Response *Does a group respond to One-Call requests or is the function handled by many different individuals?* (SRN.PD.ONECALLRESPOND.S) (detail)

Notes

4. CGA Best Practices *What CGA Best Practices are not followed?* (SRN.PD.CGA.S) (detail)

Notes

5. Patrolling - Contractors *Are contract workers used in performing aerial patrols?* (SRN.PD.PATROLCONTRACT.S) (detail)

Notes

6. Population Growth *Where are the areas of fastest growth (population/infrastructure)?* (SRN.PD.POPGROWTH.S) (detail)

Notes

7. Public Awareness and Damage Prevention Interface *How have the public awareness and damage prevention programs been interfaced?* (SRN.PD.PADPINTERFACE.S) (detail)

Notes

8. Damage Prevention Program - Follow-up TPD *Do you have a program to track and follow up with Third Party offenders?* (SRN.PD.TPDFOLLOWUP.S) (detail)

Notes

9. ROW Inspection Requirements *Are ROW activities managed by contractors or by company personnel?* (SRN.PD.ROWCONTRACT.S) (detail)

Notes

10. Excavation Event Analysis and Feedback *How are excavation related events analyzed and the findings incorporated back into the Public Awareness and Damage Prevention programs?* (SRN.PD.PADPEXCAVATION.S) (detail)

Notes

Screening - Time-Dependent Threats

0. SRN.TD Submodule Summary Result *Submodule Summary* (SRN.TD.SUMMARY.S) (detail)

Notes

1. Cathodic Protection for Breakout Tanks *Have there been repairs to, or any tank floors replaced, because of external corrosion in the last five years?* (SRN.TD.BOEXTCORROSION.S) (detail)

Notes

2. Internal Corrosion for Breakout Tanks *Have there been repairs to, or any tank floors replaced, because of internal corrosion in the last five years?* (SRN.TD.BOINTCORROSION.S) (detail)

Notes

3. Buried Pipelines with No Cathodic Protection (typically bare pipelines) *Are there any bare pipelines that are not protected from external corrosion with cathodic protection?* (SRN.TD.BAREPIPENOCP.S) (detail)

Notes

4. Corrosion Control Monitoring *Are any Corrosion Control activities being performed during this inspection?* (SRN.TD.CORROSIONCNTRL.S) (detail)

Notes

5. Cathodic Protection Current Sources *What types of current sources are used?* (SRN.TD.CPCURRENT.S) (detail)

Notes

6. Cathodic Protection Monitoring (Bare / Ineffective) *Are there any separately protected short sections of bare or ineffectively coated pipelines?* (SRN.TD.BAREPIPECP.S) (detail)

Notes

7. Cathodic Protection Criteria *Does the operator utilize a single criterion for all of their pipeline systems?* (SRN.TD.CPCRITERIA.S) (detail)

Notes

8. Atmospheric Corrosion *Discussion of Atmospheric Corrosion Control Program* (SRN.TD.ATMCORRODE.S) (detail)

Notes

9. Internal Corrosion *Discussion of Internal Corrosion Control Program* (SRN.TD.INTCORROSION.S) (detail)

Notes

10. External Corrosion *Discussion of External Corrosion Control Program* (SRN.TD.EXTCORRODE.S) (detail)

Notes

11. Stress Corrosion Cracking *Discussion of SCC Program* (SRN.TD.SCC.S) (detail)

Notes

12. Cathodic Protection Projects *Have you completed any projects related to corrosion control in the past 3 years?* (SRN.TD.CPPROJECT.S) (detail)

Notes

Screening - Training and Qualification

0. SRN.TQ Submodule Summary Result *Submodule Summary* (SRN.TQ.SUMMARY.S) (detail)

Notes

1. OQ - Plan Management *Is there a single OQ Plan and Program for all facilities?* (SRN.TQ.OQPLAN.S) (detail)

Notes

2. OQ - Procedure Manual *Has the manual of written procedures been significantly modified since the last PHMSA Team OQ inspection?* (SRN.TQ.OQPLANMOD.S) (detail)

Notes

3. OQ Program Coverage - New Construction *Is construction covered under the OQ Plan?* (SRN.TQ.OQCONST.S) (detail)

Notes

4. OQ Program - Open Issues *Have all open issues been remediated?* (SRN.TQ.OQISSUES.S) (detail)

Notes

5. OQ - Site Variations *How are site specific variations accounted for?* (SRN.TQ.OQSITEVARIATION.S) (detail)

Notes

6. OQ Program Coverage - Personnel *How many personnel are covered by the OQ Plan, both in house and contractor?* (SRN.TQ.OQPERSONNEL.S) (detail)

Notes

7. OQ Program Coverage - Other *Does the process have provisions for other individuals to perform covered tasks on your behalf, such as through mutual assistance agreements?* (SRN.TQ.OQCONTRACT.S) (detail)

Notes

8. Emergency Response Training in OQ Plan *Does the OQ Plan address Emergency Response Training and Qualification or is this contained elsewhere (such as Emergency Response Plan)?* (SRN.TQ.OQERP.S) (detail)

Notes

9. Removal from Covered Task *Has an OQ-qualified individual been removed from performing a covered task?* (SRN.TQ.OQREMOVAL.S) (detail)

Notes

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

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

Notes

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) (detail) 195.402(c)(3) (195.573(d))

Notes

3. Cathodic Protection for Breakout Tanks *Do records document adequate cathodic protection system inspections on breakout tanks?* (TD.CPBO.BO.R) (detail) 195.589(c) (195.573(d))

Notes

4. Cathodic Protection for Breakout Tanks *Are cathodic protection monitoring tests performed correctly on breakout tank bottoms?* (TD.CPBO.BO.O) (detail) 195.573(d)

Notes

5. Cathodic Protection System Maps and Records *Does the process require maps and/or records of cathodic protection systems that have been installed on pipelines constructed, relocated, replaced, converted to hazardous liquid service, or otherwise changed?* (TD.CPBO.MAPRECORD.P) (detail) 195.589(a) (195.589(b))

Notes

6. 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.CPBO.MAPRECORD.R) (detail) 195.589(a) (195.589(b))

Notes

7. Correction of Corrosion Control Deficiencies *Does the process require correction of any identified deficiencies in corrosion control?* (TD.CPBO.DEFICIENCY.P) (detail) 195.402(c)(3) (195.573(e))

Notes

8. Correction of Corrosion Control Deficiencies *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?* (TD.CPBO.DEFICIENCY.R) (detail) 195.589(c) (195.573(e))

Notes

Time-Dependent Threats - External Corrosion - Cathodic Protection Monitoring

1. Test Leads Installation *Does the process provide adequate instructions for the installation of test leads?* (TD.CPMONITOR.TESTLEADINSTALL.P) (detail) 195.402(c) (195.567(b))

Notes

2. Test Leads Installation *Do records document that pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart I?* (TD.CPMONITOR.TESTLEADINSTALL.R) (detail) 195.589(c) (195.567(b))

Notes

3. Test Leads Installation *Do pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart H?* (TD.CPMONITOR.TESTLEADINSTALL.O) (detail) 195.567(a) (195.567(b))

Notes

4. Test Leads Maintenance *Does the process require that test lead wires must be properly maintained?* (TD.CPMONITOR.TESTLEADMAINT.P) (detail) 195.402(c)(3) (195.567(c))

Notes

5. Test Leads Maintenance *Do records document that CP test lead wires have been properly maintained?* (TD.CPMONITOR.TESTLEADMAINT.R) (detail) 195.589(c) (195.567(c))

Notes

6. Test Leads Maintenance *Are CP test lead wires properly maintained?* (TD.CPMONITOR.TESTLEADMAINT.O) (detail) 195.567(c)

Notes

*** 7. Cathodic Protection Monitoring Criteria** *Does the process require that CP monitoring criteria be used that is acceptable?* (TD.CPMONITOR.MONITORCRITERIA.P) (detail) 195.402(c)(3) (195.571)

Notes

8. Cathodic Protection Monitoring Criteria *Do records document that CP monitoring criteria used was acceptable?* (TD.CPMONITOR.MONITORCRITERIA.R) (detail) 195.589(c) (195.571)

Notes

9. Cathodic Protection Monitoring Readings *Do the methods for taking CP monitoring readings allow for the application of appropriate CP monitoring criteria?* (TD.CPMONITOR.MONITOR.O) (detail) 195.571

Notes

10. Cathodic Protection Monitoring *Does the process adequately describe how to monitor CP that has been applied to pipelines?* (TD.CPMONITOR.TEST.P) (detail) 195.402(c)(3) (195.573(a)(1))

Notes

11. Cathodic Protection Monitoring *Do records document required monitoring tests have occurred and that adequate cathodic protection levels exist?* (TD.CPMONITOR.TEST.R) (detail) 195.589(c) (195.573(a)(1))

Notes

12. Cathodic Protection Monitoring *Does the operator perform cathodic protection monitoring tests correctly?* (TD.CPMONITOR.CPTEST.O) (detail) 195.571

Notes

*** 13. Close Interval Surveys** *Does the process adequately describe the circumstances in which a CIS or comparable technology is practicable and necessary no more than 2 years after a cathodic protection system has been installed?* (TD.CPMONITOR.CIS.P) (detail) 195.402(c)(3) (195.573(a)(2))

Notes

14. Close Interval Surveys *Do records document, when circumstances dictated a need for close interval surveys, dates of completed surveys, data from completed surveys and analysis of completed surveys?* (TD.CPMONITOR.CIS.R) (detail) 195.589(c) (195.573(a)(2))

Notes

15. Rectifiers, Bonds, Diodes and Reverse Current Switches *Does the process give sufficient details for making electrical checks of rectifiers, interference bonds, diodes, and reverse current switches?* (TD.CPMONITOR.CURRENTTEST.P) (detail) 195.402(c)(3) (195.573(c))

Notes

16. Rectifiers, Bonds, Diodes and Reverse Current Switches *Do records document adequate electrical checks of rectifiers, interference bonds, diodes, and reverse current switches and at the required intervals?* (TD.CPMONITOR.CURRENTTEST.R) (detail) 195.589(c) (195.573(c))

Notes

17. Rectifiers, Bonds, Diodes and Reverse Current Switches *Are rectifiers, interference bonds, diodes, and reverse current switches properly maintained and are they functioning properly?* (TD.CPMONITOR.CURRENTTEST.O) (detail) 195.573(c)

Notes

18. Interference Currents *Does the process give sufficient guidance and detail for identifying and testing areas of potential stray current, and minimizing the detrimental effects of stray currents?* (TD.CPMONITOR.INTFRCURRENT.P) (detail) 195.402(c)(3) (195.577(a); 195.577(b))

Notes

19. Interference Currents *Do records document that the operator has minimized the detrimental effects of stray currents when found?* (TD.CPMONITOR.INTFRCURRENT.R) (detail) 195.589(c) (195.577(a))

Notes

20. Interference Currents *Are areas of potential stray current identified, and if found, the detrimental effects of stray currents minimized?* (TD.CPMONITOR.INTFRCURRENT.O) (detail) 195.577(a)

Notes

21. Cathodic Protection System Maps and Records *Does the process require maps and/or records of cathodic protection systems that have been installed on pipelines constructed, relocated, replaced, converted to hazardous liquid service, or otherwise changed?* (TD.CPMONITOR.MAPRECORD.P) (detail) 195.589(a) (195.589(b))

Notes

22. 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.CPMONITOR.MAPRECORD.R) (detail) 195.589(a) (195.589(b))

Notes

23. Correction of Corrosion Control Deficiencies *Does the process require correction of any identified deficiencies in corrosion control?* (TD.CPMONITOR.DEFICIENCY.P) (detail) 195.402(c)(3) (195.573(e))

Notes

24. Correction of Corrosion Control Deficiencies *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?* (TD.CPMONITOR.DEFICIENCY.R) (detail) 195.589(c) (195.573(e))

Notes

Time-Dependent Threats - External Corrosion - Exposed Pipe

1. Examination of Exposed Portions of Buried Pipe *Does the process require that exposed portions of buried pipeline must be examined?* (TD.CPEXPOSED.EXPOSEINSPECT.P) (detail) 195.402(c)(3) (195.569)

Notes

2. Examination of Exposed Portions of Buried Pipe *Does the process require further examination of exposed buried pipe if corrosion is found?* (TD.CPEXPOSED.EXPOSECORRODE.P) (detail) 195.402(c)(3) (195.569)

Notes

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

Notes

4. Examination of Exposed Portions of Buried Pipe *Verify that exposed buried piping is examined for corrosion.* (TD.CPEXPOSED.EXPOSEINSPECT.O) (detail) 195.569

Notes

5. Evaluation of Externally Corroded Pipe *Does the process give sufficient guidance for personnel to evaluate the remaining strength of externally corroded pipe?* (TD.CPEXPOSED.EXTCORRODEEVAL.P) (detail) 195.402(c)(3) (195.587)

Notes

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

Notes

7. Repair of Externally Corroded Pipe *Does the process give sufficient guidance for personnel to repair or replace pipe that is externally to an extent that there is not sufficient remaining strength in the pipe wall?* (TD.CPEXPOSED.EXTCORRODEREPAIR.P) (detail) 195.402(c)(3) (195.585(a); 195.585(b))

Notes

8. Repair of Externally Corroded Pipe *Do records document the repair or replacement of pipe that has been externally corroded to an extent that there is not sufficient remaining strength in the pipe wall?* (TD.CPEXPOSED.EXTCORRODEREPAIR.R) (detail) 195.589(c) (195.585(a); 195.585(b))

Notes

9. Cathodic Protection System Maps and Records *Does the process require maps and/or records of cathodic protection systems that have been installed on pipelines constructed, relocated, replaced, converted to hazardous liquid service, or otherwise changed?* (TD.CPEXPOSED.MAPRECORD.P) (detail) 195.589(a) (195.589(b))

Notes

10. 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.CPEXPOSED.MAPRECORD.R) (detail) 195.589(a) (195.589(b))

Notes

11. Correction of Corrosion Control Deficiencies *Does the process require correction of any identified deficiencies in corrosion control?* (TD.CPEXPOSED.DEFICIENCY.P) (detail) 195.402(c)(3) (195.573(e))

Notes

12. Correction of Corrosion Control Deficiencies *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?* (TD.CPEXPOSED.DEFICIENCY.R) (detail) 195.589(c) (195.573(e))

Notes

Time-Dependent Threats - External Corrosion - Atmospheric

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

Notes

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

Notes

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) (detail) 195.402(c)(3) (195.583(a); 195.583(b); 195.583(c))

Notes

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

Notes

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

Notes

Time-Dependent Threats - External Corrosion - Coatings

1. New Buried Pipe Coating *Does the process require coatings for pipelines constructed, relocated, replaced, or otherwise changed after the applicable date in §195.401(c) to meet the requirements of §195.559?* (TD.COAT.NEWPIPE.P) (detail) 195.402(c)(3) (195.557(a); 195.559; 195.401(c))

Notes

2. New Buried Pipe Coating *Do records document that coatings for pipelines constructed, relocated, replaced, or otherwise changed meet the requirements of §195.559?* (TD.COAT.NEWPIPE.R) (detail) 195.589(c) (195.557(a); 195.559; 195.401(c))

Notes

3. Converted Buried Pipe Coating *Does the process require that pipelines that have been converted to liquid service and were constructed after the applicable date in §195.401(c) have external coating?* (TD.COAT.CONVERTPIPE.P) (detail) 195.402(c)(3) (195.557(b); 195.559)

Notes

4. Converted Buried Pipe Coating *Do records document that pipelines that have been converted to liquid service and were constructed after the applicable date in §195.401(c) have external coating?* (TD.COAT.CONVERTPIPE.R) (detail) 195.589(c) (195.557(b), 195.559)

Notes

5. New Buried Pipe Coating Inspection *Does the process require that the coating be inspected on new pipelines just prior to it being lowered into the pipe trench?* (TD.COAT.NEWPIPEINSPECT.P) (detail) 195.402(c)(3) (195.561(a); 195.561(b))

Notes

6. New Buried Pipe Coating Inspection *Do records document that pipeline segments installed within the last 5 years have the required coating and coating inspection?* (TD.COAT.NEWPIPEINSPECT.R) (detail) 195.589(c) (195.559; 195.561(a); 195.561(b))

Notes

7. Exposed Pipe Coating *Does the process require that the existing coating be evaluated whenever pipe is exposed?* (TD.COAT.EXPOSEINSPECT.P) (detail) 195.402(c)(3) (195.569)

Notes

8. Exposed Pipe Coating *Do records document that exposed buried pipe coating was adequately inspected to determine if it is deteriorating?* (TD.COAT.EXPOSEINSPECT.R) (detail) 195.589(c) (195.569)

Notes

9. Exposed Pipe Coating *Is exposed pipe coating inspected to determine if it is deteriorating?* (TD.COAT.EXPOSEINSPECT.O) (detail) 195.569

Notes

10. Exposed Pipe Coating Repair *Does the process require that deteriorated coating be repaired when found on exposed buried pipe?* (TD.COAT.EXPOSEREPAIR.P) (detail) 195.402(c)(3) (195.561(b); 195.557(a); 195.557(b))

Notes

Time-Dependent Threats - External Corrosion - Cathodic Protection

1. Corrosion Control Supervision *Is there a process for verifying that corrosion control supervisors maintain a thorough knowledge of corrosion control procedures for which they are responsible?* (TD.CP.SUPERVISE.P) (detail) 195.402(c)(3) (195.555)

Notes

2. Corrosion Control Supervision *Do records document that corrosion control supervisors have maintained a thorough knowledge of corrosion control procedures for which they are responsible?* (TD.CP.SUPERVISE.R) (detail) 195.589(c) (195.555)

Notes

3. Cathodic Protection for New Pipelines *Does the process specify when cathodic protection must be operational on constructed, relocated, replaced, or otherwise changed pipelines?* (TD.CP.NEWOPERATE.P) (detail) 195.402(c)(3) (195.563(a); 195.563(c); 195.563(d))

Notes

4. Cathodic Protection for New Pipelines *Do records document when cathodic protection was operational on constructed, relocated, replaced, or otherwise changed pipelines within the last 5 years?* (TD.CP.NEWOPERATE.R) (detail) 195.589(c) (195.563(a))

Notes

5. Cathodic Protection for Converted Pipelines *Do procedures specify when cathodic protection must be operational on pipelines that have gone through a conversion to service?* (TD.CP.CONVERTOPERATE.P) (detail) 195.402(c)(3) (195.563(b))

Notes

6. Cathodic Protection for Converted Pipelines *Do records document when cathodic protection was operational on pipelines that had gone through a conversion to service?* (TD.CP.CONVERTOPERATE.R) (detail) 195.589(c) (195.563(b))

Notes

7. Cathodic Protection System Maps and Records *Does the process require maps and/or records of cathodic protection systems that have been installed on pipelines constructed, relocated, replaced, converted to hazardous liquid service, or otherwise changed?* (TD.CP.MAPRECORD.P) (detail) 195.589(a) (195.589(b))

Notes

8. 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) (detail) 195.589(a) (195.589(b))

Notes

9. Unprotected Buried Pipelines (typically bare pipelines) *Does the process give sufficient direction for the monitoring of external corrosion on buried pipelines that are not protected by cathodic protection?* (TD.CP.UNPROTECT.P) (detail) 195.402(c)(3) (195.563(e); 195.573(b)(1); 195.573(b)(2))

Notes

10. Unprotected Buried Pipelines (typically bare pipelines) *Do records document the adequate re-evaluation of buried pipelines with no cathodic protection for areas of active corrosion?* (TD.CP.UNPROTECT.R) (detail) 195.589(c) (195.573(b)(1); 195.573(b)(2))

Notes

11. Correction of Corrosion Control Deficiencies *Does the process require correction of any identified deficiencies in corrosion control?* (TD.CP.DEFICIENCY.P) (detail) 195.402(c)(3) (195.573(e))

Notes

12. Correction of Corrosion Control Deficiencies *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?* (TD.CP.DEFICIENCY.R) (detail) 195.589(c) (195.573(e))

Notes

13. Isolation from Other Metallic Structures *Does the process give adequate guidance for electrically isolating each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?* (TD.CP.ISOLATE.P) (detail) 195.402(c)(3) (195.575(a); 195.575(b); 195.575(c); 195.575(d))

Notes

14. Isolation from Other Metallic Structures *Do records document adequate electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?* (TD.CP.ISOLATE.R) (detail) 195.589(c) (195.575(a); 195.575(b); 195.575(c); 195.575(d))

Notes

15. Isolation from Other Metallic Structures *Are measures performed to ensure electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?* (TD.CP.ISOLATE.O) (detail) 195.575(a) (195.575(b); 195.575(c); 195.575(d))

Notes

16. Protection from Fault Currents *Does the process give sufficient guidance for determining when protection against damage from fault currents or lightning is needed and how that protection must be installed?* (TD.CP.FAULTCURRENT.P) (detail) 195.402(c)(3) (195.575(e))

Notes

17. Protection from Fault Currents *Do records document adequate installation and inspection of fault current and lightning protection?* (TD.CP.FAULTCURRENT.R) (detail) 195.589(c) (195.575(e))

Notes

18. Protection from Fault Currents *Are fault current and lightning protection for the pipeline installed and inspected?* (TD.CP.FAULTCURRENT.O) (detail) 195.575(e)

Notes

Time-Dependent Threats - Internal Corrosion - Preventive Measures

1. Regulated Rural Gathering Internal Corrosion Identification *Is there a process to continuously identify operating conditions that could contribute to internal corrosion for regulated gathering lines?* (TD.ICP.REGRURALGATHER.P) (detail) 195.11(d) (195.11(b)(10))

Notes

2. Regulated Rural Gathering Internal Corrosion Identification *Do records indicate the process to continuously identify operating conditions that could contribute to internal corrosion on regulated gathering lines adequately identifies threats, and was the program established before transportation began or if the pipeline existed on July 3, 2008, before July 3, 2009?* (TD.ICP.REGRURALGATHER.R) (detail) 195.11(d) (195.11(b)(10))

Notes

3. Internal Corrosion Remediation *Does the process give adequate guidance for investigating and remediating the corrosive effects of hazardous liquids or carbon dioxide being transported?* (TD.ICP.INVESTREMED.P) (detail) 195.402(c)(3) (195.579(a))

Notes

4. Internal Corrosion Remediation *Do records document investigation and remediation of the corrosive effects of hazardous liquids or carbon dioxide being transported?* (TD.ICP.INVESTREMED.R) (detail) 195.589(c) (195.579(a))

Notes

5. Internal Corrosion Inhibitor Monitoring *Does the process give adequate direction for the monitoring of corrosion inhibitors?* (TD.ICP.INHIBITOR.P) (detail) 195.402(c)(3) (195.579(b)(1); 195.579(b)(2); 195.579(b)(3))

Notes

6. Internal Corrosion Inhibitor Monitoring *Do records document that corrosion inhibitors have been used in sufficient quantity?* (TD.ICP.INHIBITOR.R) (detail) 195.589(c) (195.579(b)(1); 195.579(b)(2); 195.579(b)(3))

Notes

7. Internal Corrosion Monitoring *Are internal corrosion monitoring devices placed in appropriate locations?* (TD.ICP.INHIBITOR.O) (detail) 195.579(b)

Notes

8. Internal Corrosion in Cutout Pipe *Does the process direct personnel to examine removed pipe for evidence of internal corrosion?* (TD.ICP.EXAMINE.P) (detail) 195.402(c)(3) (195.579(c))

Notes

9. Internal Corrosion in Cutout Pipe *Do records document examination of removed pipe for evidence of internal corrosion?* (TD.ICP.EXAMINE.R) (detail) 195.589(c) (195.579(c); 195.579(a))

Notes

10. Internal Corrosion in Cutout Pipe *Is removed pipe examined for evidence of internal corrosion?* (TD.ICP.EXAMINE.O) (detail) 195.579(c) (195.579(a))

Notes

11. Evaluation of Internally Corroded Pipe *Does the process give sufficient guidance for personnel to evaluate the remaining strength of pipe that has been internally corroded?* (TD.ICP.EVALUATE.P) (detail) 195.402(c)(3) (195.587)

Notes

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

Notes

13. Repair of Internally Corroded Pipe *Does the process give sufficient guidance for personnel to repair or replace pipe that has internally corroded to an extent that there is no longer sufficient remaining strength in the pipe wall?* (TD.ICP.REPAIR.P) (detail) 195.402(c)(3) (195.585(a); 195.585(b))

Notes

14. Repair of Internally Corroded Pipe *Do records document the repair or replacement of pipe that has been internally corroded to an extent that there is not sufficient remaining strength in the pipe wall?* (TD.ICP.REPAIR.R) (detail) 195.589(c) (195.585(a); 195.585(b))

Notes

15. Internal Corrosion Lining of Breakout Tanks *Does the process give adequate direction for installing breakout tank bottom linings?* (TD.ICP.BOLINING.P) (detail) 195.402(c)(3) (195.579(d))

Notes

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

Notes

Time-Dependent Threats - Special Permits

1. Special Permit *Has a process been developed for complying with the special permit conditions?* (TD.SP.PROCESS.P) (detail) 190.341(d)(2)

Notes

2. Special Permit *Do records demonstrate the operator has complied with all special permit or waiver requirements?* (TD.SP.PROCESS.R) (detail) 190.341(d)(2)

Notes

3. Special Permit *Is the operator complying with special permit requirements?* (TD.SP.PROCESS.O) (detail) 190.341(d)(2)

Notes

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

1. Qualification of Inspectors *Are personnel who conduct pipe or pipeline system construction inspections trained and qualified?* (TQ.QUOMCONST.INSPECTORQUAL.P) (detail) 195.204

Notes

2. Qualification of Inspectors *Are adequate qualification records available for personnel who conduct pipe or pipeline system construction inspections?* (TQ.QUOMCONST.INSPECTORQUAL.R) (detail) 195.204

Notes

3. Qualification of Inspectors *Do inspectors who ensure pipeline systems are installed per requirements demonstrate adequate skills and knowledge?* (TQ.QUOMCONST.INSPECTORQUAL.O) (detail) 195.204

Notes

4. Qualification of Welders *Are welders qualified in accordance with API-1104 or the ASME Boiler & Pressure Vessel Code?* (TQ.QUOMCONST.WELDER.P) (detail) 195.222(a) (195.222(b); Section 6 of API-1104, Section IX of ASME Boiler & Pressure Vessel Code; 195.214(a))

Notes

5. Qualification Records for Welders *Is qualification of welders in accordance with API-1104 or the ASME Boiler & Pressure Vessel Code documented?* (TQ.QUOMCONST.WELDER.R) (detail) 195.222(a) (195.214(a); 195.222(b))

Notes

6. Skills and Knowledge of Welders *Do welders demonstrate adequate skills and knowledge?* (TQ.QUOMCONST.WELDER.O) (detail) 195.222(a) (195.505(b); 195.214(a))

Notes

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

1. Inspector Training *Does the process require any person performing inspections be trained?* (TQ.TROMCONST.INSPECTORTRAIN.P) (detail) 195.204

Notes

2. Inspector Training *Are training records available for those performing inspections?* (TQ.TROMCONST.INSPECTORTRAIN.R) (detail) 195.204

Notes

3. Training for Nondestructive Testing *Does the process require nondestructive testing of welds (for maintenance and construction) to be performed by personnel who are trained in procedures established to ensure compliance with §195.228 and in use of the testing equipment?* (TQ.TROMCONST.NDT.P) (detail) 195.234(b)(2)

Notes

4. Training for Nondestructive Testing *Is training for personnel, who perform nondestructive testing of welds, documented and demonstrated?* (TQ.TROMCONST.NDT.R) (detail) 195.234(b)(2)

Notes

Training and Qualification - Training of Personnel - Emergency Response

1. Emergency Response Training - Procedures *Does emergency response training cover the emergency procedures established under §195.402?* (TQ.TRERP.ERTRAINING.P) (detail) 195.403(a)(1)

Notes

2. Emergency Response Training - Hazards *Are the characteristics and hazards of the hazardous liquids or carbon dioxide transported covered in the ER training?* (TQ.TRERP.ERHAZTRAINING.P) (detail) 195.403(a)(2)

Notes

3. 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) (detail) 195.403(a)(3)

Notes

4. Emergency Response Training - Release Control *Are the steps necessary to control any accidental release of hazardous liquid to minimize the potential for fire, explosion, toxicity, or environmental damage identified in the ER training?* (TQ.TRERP.ERRELEASECONTROL.P) (detail) 195.403(a)(4)

Notes

5. Emergency Response Training - Fire *Are the potential causes, types, sizes, and consequences of fire and appropriate use of portable fire extinguishers and other on-site fire control equipment covered in the ER training?* (TQ.TRERP.ERFIREPROT.P) (detail) 195.403(a)(5)

Notes

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

Notes

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

Notes

8. Emergency Response Training Performance Review *Does the process require review of emergency response personnel performance at the required frequency?* (TQ.TRERP.ERTRAININGREVIEW.P) (detail) 195.403(b)

Notes

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

Notes

10. Emergency Response Supervisor Training *Does the process require supervisors be trained on emergency response procedures for which they are responsible?* (TQ.TRERP.ERTRAININGSUPERVISE.P) (detail) 195.403(c)

Notes

11. Emergency Response Supervisor Training *Do emergency response supervisors demonstrate adequate skills and knowledge?* (TQ.TRERP.ERTRAININGSUPERVISE.O) (detail) 195.403(c) (195.405)

Notes

Training and Qualification - Training of Personnel - Dispatcher

1. Dispatcher Training *Does the process require that dispatchers are trained in the recognition of CPM alarms?* (TQ.TRCNTRL.CNTRLTRAINING.P) (detail) 195.444 (195.446(e))

Notes

2. Dispatcher Training - API 1130 *Do the process require dispatcher training be provided in compliance with API-1130?* (TQ.TRCNTRL.CNTRLTRAINING1130.P) (detail) 195.444 (195.505(h))

Notes

3. Dispatcher Training *Is dispatcher training and qualification documented?* (TQ.TRCNTRL.CNTRLTRAINING.R) (detail) 195.444 (195.507(a); 195.507(b))

Notes

4. Dispatcher Training *Do dispatchers demonstrate adequate skills and knowledge?* (TQ.TRCNTRL.CNTRLTRAINING.O) (detail) 195.444 (195.505(b))

Notes

Training and Qualification - Operator Qualification

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) (detail) 195.505(a) (195.501(b); 195.3(c)(B)(9))

Notes

2. Reevaluation Intervals for Covered Tasks *Does the process establish and justify requirements for reevaluation intervals for each covered task?* (TQ.OQ.REEVALINTERVAL.P) (detail) 195.505(g)

Notes

3. Contractors Adhering to OQ Plan *Does the process require the OQ plan to be communicated to contractors and provide a means to ensure that contractors are following the plan?* (TQ.OQ.OQPLANCONTRACTOR.P) (detail) 195.505(a) (195.505(f))

Notes

4. Contractor and Other Entity Qualification *Are contractor organizations or other entities that perform covered tasks qualified?* (TQ.OQ.OQCONTRACTOR.P) (detail) 195.505(b) (195.505(c); 195.505(d); 195.505(e); 195.505(f))

Notes

5. Contractor Qualification Documentation Meets Operator Requirements *Do records provide the necessary assurance that the procedures on which a qualifying vendor evaluations are based are the same or consistent with those used by operator employees and contractors in the field?* (TQ.OQ.CONTRACTOREQUIV.R) (detail) 195.505(h)

Notes

6. Contractor and Other Entity Qualification *Are qualification records available for contractor personnel that contain the required elements?* (TQ.OQ.OQCONTRACTOR.R) (detail) 195.507(a) (195.507(b))

Notes

7. Management of Other Entities Performing Covered Tasks *Do records document evaluation of other entity (ies) performing the covered task(s) on behalf of the operator (e.g., through mutual assistance agreements) prior to performing task?* (TQ.OQ.OTHERENTITY.R) (detail) 195.505(b) (195.505(c); 195.503)

Notes

8. Evaluation Methods *Are evaluation methods established and documented appropriate to each covered task?* (TQ.OQ.EVALMETHOD.P) (detail) 195.505(b) (195.503; 195.509(d); 195.509(e))

Notes

9. Evaluation Methods *Are evaluation methods documented for covered tasks and consistent with personnel qualification records?* (TQ.OQ.EVALMETHOD.R) (detail) 195.505(b) (195.503; 195.509(d); 195.509(e))

Notes

10. Abnormal Operating Conditions *Does the OQ plan adequately address abnormal operating conditions (AOCs)?* (TQ.OQ.ABNORMAL.P) (detail) 195.503 (195.505(b))

Notes

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

Notes

12. Abnormal Operating Conditions Personnel Knowledge *Do individuals performing covered tasks have adequate knowledge to recognize and react to abnormal operating conditions (AOCs)?* (TQ.OQ.ABNORMAL.O) (detail) 195.503

Notes

13. Qualification Records for Personnel Performing Covered Tasks *Do records indicate personnel qualification records contain the required elements?* (TQ.OQ.RECORDS.R) (detail) 195.507(a) (195.507(b))

Notes

14. Training Requirements (Initial, Retraining, and Reevaluation) *Does the operators program include training as a part of the qualification and/or requalification process?* (TQ.OQ.TRAINING.P) (detail) 195.505(h)

Notes

15. Training Requirements (Initial, Retraining, and Reevaluation) *Do records indicate that the operators program includes training as a part of the qualification and/or requalification process?* (TQ.OQ.TRAINING.R) (detail) 195.507(a) (195.507(b); 195.505(h))

Notes

16. Covered Task Performed by Non-qualified Individual *Are there provisions for non-qualified individuals to perform covered tasks while being directed and observed by a qualified individual, and are there restrictions and limitations placed on such activities?* (TQ.OQ.NONQUALIFIED.P) (detail) 195.505(c)

Notes

17. Covered Task Performed by Non-qualified Individual
Verify that non-qualified individuals performing covered tasks are being directed and observed by a qualified individual, and that restrictions and limitations are placed on such activities. (TQ.OQ.NONQUALIFIED.O) (detail) 195.505(c)

Notes

18. Personnel Performance Monitoring *Does the OQ program include provisions to evaluate an individual if the operator has reason to believe the individual is no longer qualified to perform a covered task based on: covered task performance by an individual contributed to an incident or accident; other factors affecting the performance of covered tasks?* (TQ.OQ.PERFMONITOR.P) (detail) 195.505(d) (195.505(e))

Notes

19. Personnel Performance Monitoring *Do records indicate evaluation of an individual if there was reason to believe that an individual was no longer qualified following an occurrence?* (TQ.OQ.PERFMONITOR.R) (detail) 195.505(d) (195.505(e))

Notes

20. Program Performance and Improvement *Does the process require evaluation of the OQ program and the effectiveness of the program once each calendar year not to exceed 15 months?* (TQ.OQ.PROGRAMEVAL.P) (detail) 195.402(a)

Notes

21. Operator Qualification Plan and Covered Tasks *Do individuals performing covered tasks demonstrate adequate skills and knowledge?* (TQ.OQ.OQPLAN.O) (detail) 195.505(h)

Notes

22. Planning for Mergers and Acquisitions (Due Diligence re: Acquiring Qualified Individuals)
Does the process require managing qualifications of individuals performing covered tasks during program integration following a merger or acquisition? (TQ.OQ.MERGERACQ.P) (detail) 195.505(b) (195.503)

Notes

23. Management of Change *Does the OQ program identify how changes to procedures, tools standards and other elements used by individuals in performing covered tasks are communicated to the individuals, including contractor individuals, and how these changes are implemented in the evaluation method(s)?* (TQ.OQ.MOC.P) (detail) 195.505(f)

Notes

24. Notification of Significant Plan Changes *Does the process require significant OQ program changes to be identified and the Administrator or State agency notified?* (TQ.OQ.CHANGENOTIFY.P) (detail) 195.505(i)

Notes

25. Records of OQ Program Changes *Are records maintained for changes that affect covered tasks and significant OQ plan changes?* (TQ.OQ.CHANGEMOC.R) (detail) 195.505(i) (195.505(f))

Notes

Training and Qualification - Qualification of Personnel - Specific Requirements

1. Corrosion Control Qualification for Supervisors *Are supervisors required to maintain a thorough knowledge of corrosion control procedures they are responsible for, and is it verified?* (TQ.QU.CORROSIONSUPERVISE.P) (detail) 195.555 (195.505(h))

Notes

2. Corrosion Control Qualification for Supervisors *Is qualification of supervisors in corrosion control procedures documented?* (TQ.QU.CORROSIONSUPERVISE.R) (detail) 195.555 (195.507(a); 195.507(b))

Notes

3. Controller Training *Does the process establish, maintain, and review controller qualifications, abilities, and performance metrics, with particular attention to response to abnormal operating conditions?* (TQ.QU.CONTROLLER.P) (detail) 195.446(h) (195.505(b))

Notes

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

Notes

5. Controller Training *Do controllers demonstrate adequate skills and knowledge?* (TQ.QU.CONTROLLER.O) (detail) 195.446(b) (195.446(c); 195.505(b))

Notes

Training and Qualification - OQ Protocol 9

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) (detail) 195.501(a) (195.509(a))

Notes

2. Qualification Status *Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks.* (TQ.PROT9.QUALIFICATIONSTATUS.O) (detail) 195.501(a) (195.509(a))

Notes

3. Abnormal Operating Condition Recognition and Reaction *Verify the individuals performing covered tasks are cognizant of the AOCs that are applicable to the tasks observed.* (TQ.PROT9.AOCRECOG.O) (detail) 195.501(a) (195.509(a))

Notes

4. Verification of Qualification *Verify the qualification records are current, and ensure the personal identification of all individuals performing covered tasks are checked, prior to task performance.* (TQ.PROT9.VERIFYQUAL.O) (detail) 195.501(a) (195.509(a))

Notes

5. Program Inspection Deficiencies *Have potential issues identified by the headquarters inspection process been corrected at the operational level?* (TQ.PROT9.CORRECTION.O) (detail) 195.501(a) (195.509(a))

Notes

Acceptable Use: 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.