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## GT & GG Form Updates – GG TYPE B&C

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Repair Criteria in Type B and C Gas Gathering Pipelines** From the review of records, did the operator repair or replace pipe to permanently restore the serviceability of the pipe? (AR.RCOM.GGREMEDIATION.R) | | | | | | | | | 192.485(a) (191.23(a)(1); 191.23(b)(1); 192.9(d)(2); 192.9(e)(1)(ii); 192.453; 192.485(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Field Inspection - Gas Gathering Remedial Actions** Is operator's remediation and documentation of remediation adequate? (AR.RCOM.GGREMEDIATION.O) | | | | | | | | | 192.485(a) (192.453; 192.459; 192.485(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

## Emergency Preparedness and Response - Emergency Response

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Emergency Plan Review** Does the process include a requirement to review the manual at intervals not exceeding 15 months, but at least once each calendar year? (EP.ERG.REVIEW.P) | | | | | | | | | 192.605(a) (192.9(d); 192.9(e); ) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Emergency Plan Review** Have annual reviews been conducted of the emergency plans and procedures as required, and any updates completed as appropriate? (EP.ERG.REVIEW.R) | | | | | | | | | 192.605(a) (192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Distribution of Emergency Plan and Procedures** Are supervisors provided the applicable portions of the emergency plan and procedures? (EP.ERG.LOCATION.O) | | | | | | | | | 192.615(b)(1) (192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Receiving Notices** Does the emergency plan include procedures for receiving, identifying, and classifying notices of events which need immediate response? (EP.ERG.NOTICES.P) | | | | | | | | | 192.615(a)(1) (192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Emergency Response** Does the process include procedures for ensuring the availability of personnel, equipment, tools, and materials as needed at the scene of an emergency? (EP.ERG.READINESS.P) | | | | | | | | | 192.615(a) (192.615(a)(4); 192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Emergency Response - Actions** Does the emergency plan include procedures for taking actions directed toward protecting people first and then property? (EP.ERG.PUBLICPRIORITY.P) | | | | | | | | | 192.615(a) (192.615(a)(5); 192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Emergency Response** Does the emergency plan include procedures for the emergency shutdown, valve shut-off, or pressure reduction in any section of pipeline system necessary to minimize hazards to life or property? (EP.ERG.PRESSREDUCESD.P) | | | | | | | | | 192.615(a) (192.615(a)(6); 192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Emergency Response - Hazards** Does the emergency plan include procedures for making safe any actual or potential hazard to life or property? (EP.ERG.PUBLICHAZ.P) | | | | | | | | | 192.605(a) (192.615(a)(7); 192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Service Outage Restoration** Does the emergency plan include procedures for safely restoring any service outage? (EP.ERG.OUTAGERESTORE.P) | | | | | | | | | 192.615(a) (192.615(a)(9); 192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Emergency Response Performance** Does the process include detailed steps for reviewing employee activities to determine whether the procedures were effectively followed in each emergency? (EP.ERG.POSTEVNTREVIEW.P) | | | | | | | | | 192.615(b)(3) (192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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

## Maintenance and Operations - Gas Pipeline MAOP

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Maximum Allowable Operating Pressure Determination** Do records indicate determination of the MAOP of pipeline segments in accordance with 192.619 and limiting of the operating pressure as required? (MO.GOMAOP.MAOPDETERMINE.R) | | | | | | | | | 192.709(c) (192.619(a); 192.619(b); 192.619(c); 192.619(f); 192.517; 192.8(b); 192.8(c)(4); 192.9(d); 192.9(e)(2); 192.9(f)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Normal Operations within MAOP Limits** Do records indicate operation within MAOP limits, plus the build-up allowed for operation of pressure-limiting and control devices, was assured while starting up and shutting down any part of the pipeline? (MO.GOMAOP.MAOPLIMIT.R) | | | | | | | | | 192.603(b) (192.605(b)(5); 192.619(a); 192.8(b); 192.8(c)(4); 192.9(d); 192.9(e)(2); 192.9(f)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Placement of ROW Markers** Are line markers placed and maintained as required? (MO.RW.ROWMARKER.O) | | | | | | | | | 192.707(a) (192.707(b); 192.707(c); 192.707(d); 192.9(d); 192.9(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Leakage Surveys** Do records indicate leakage surveys conducted as required? (MO.RW.LEAKAGE.R) | | | | | | | | | 192.709(c) (192.706; 192.706(a); 192.706(b); 192.935(d); 192.703(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Leakage Surveys** Are leakage surveys being implemented as required? (MO.RW.LEAKAGE.O) | | | | | | | | | 192.706 (192.706(a); 192.706(b); 192.703(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

## Public Awareness and Damage Prevention - Damage Prevention

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Damage Prevention Program** Is a damage prevention program approved and in place? (PD.DP.PDPROGRAM.P) | | | | | | | | | 192.614(a) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Participation in Qualified One Call Systems** Does the process require participation in qualified one-call systems? (PD.DP.ONECALL.P) | | | | | | | | | 192.614(b) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Construction Marking** Does the process require marking proposed excavation sites to CGA Best Practices or use more stringent and accurate requirements? (PD.DP.EXCAVATEMARK.P) | | | | | | | | | 192.614(c)(5) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Documented Damage Prevention Program - TPD** Does the process specify how reports of Third Party Activity and names of associated contractors or excavators are input back into the mail-outs and communications with excavators along the system? (PD.DP.TPD.P) | | | | | | | | | 192.614(c)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Documented Damage Prevention Program - TPD/One Call** Does the process specify how reports of TPD are checked against One-Call tickets? (PD.DP.TPDONECALL.P) | | | | | | | | | 192.614(c)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Participation in Qualified One Call Systems** Observe operator process a "One Call" ticket. (PD.DP.ONECALL.O) | | | | | | | | | 192.614(c)(3) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Damage Prevention Program** Does the damage prevention program meet minimum requirements specified in 192.614(c)? (PD.DP.PDPROGRAM.R) | | | | | | | | | 192.614(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

## Public Awareness and Damage Prevention - Public Awareness

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Management Support of Public Awareness Program** Does the operator's program documentation demonstrate management support? (PD.PA.MGMTSUPPORT.P) | | | | | | | | | 192.616(a) (API RP 1162 Section 2.5; API RP 1162 Section 7.1) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Public Education Program** Has the continuing public education (awareness) program been established as required? (PD.PA.PROGRAM.P) | | | | | | | | | 192.616(a) (192.616(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Consideration of Supplemental Enhancements** Were relevant factors considered to determine the need for supplemental public awareness program enhancements for each stakeholder audience, as described in API RP 1162? (PD.PA.SUPPLEMENTAL.P) | | | | | | | | | 192.616(c) (API RP 1162 Section 6.2) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Liaison with Public Officials** Do records indicate that liaison has been established and maintained with appropriate fire, police, other public officials, and 911 emergency call centers? (EP.ERG.LIAISON.R) | | | | | | | | | 192.603(b) (192.615(c)(1); 192.615(c)(2); 192.615(c)(3); 192.615(c)(4); 192.616(c); 192.9(d); 192.9(e); ADB-2005-03)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Other Languages** Does the program require that materials and messages be provided in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas? (PD.PA.LANGUAGE.P) | | | | | | | | | 192.616(g) (API RP 1162 Section 2.3.1) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Evaluate Program Implementation** Has an audit or review of the operator's program implementation been performed annually since the program was developed? (PD.PA.EVALIMPL.R) | | | | | | | | | 192.616(c) (192.616(i); API RP 1162 Section 8.3) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Acceptable Methods for Program Implementation Audits** Was one or more of the three acceptable methods (i.e., internal assessment, 3rd-party contractor review, or regulatory inspections) used to complete the annual audit or review of program implementation? (PD.PA.AUDITMETHODS.R) | | | | | | | | | 192.616(c) (192.616(i); API RP 1162 Section 8.3) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **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) | | | | | | | | | 192.616(c) (API RP 1162 Section 8.3) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **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) | | | | | | | | | 192.616(c) (API RP 1162 Section 8.4) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Measure Program Outreach** In evaluating effectiveness, was actual program outreach for each stakeholder audience tracked? (PD.PA.MEASUREOUTREACH.R) | | | | | | | | | 192.616(c) (API RP 1162 Section 8.4.1) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **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) | | | | | | | | | 192.616(c) (API RP 1162 Section 8.4.2) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **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) | | | | | | | | | 192.616(c) (API RP 1162 Section 8.4.3) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Measure Bottom-Line Results** Were bottom-line results of the program measured 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) | | | | | | | | | 192.616(c) (API RP 1162 Section 8.4.4) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. Program Changes** Were needed changes and/or modifications to the program identified and documented based on the results and findings of the program effectiveness evaluations? (PD.PA.CHANGES.R) | | | | | | | | | 192.616(c) (API RP 1162 Section 2.7 (Step 12); API RP 1162 Section 8.5) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

## Reporting - Notices and Reporting

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. 192.18 Required Notifications to PHMSA** Do the procedures include provisions for each of the required types of notifications to PHMSA per §192.18? (RPT.NR.19218NOTIF.P) | | | | | | | | | 192.18(c) (192.506(b); 192.607(e)(4); 192.607(e)(5); 192.624(c)(2)(iii); 192.624(c)(6); 192.632(b)(3); 192.710(c)(7); 192.712(d)(3)(iv); 192.712(e)(2)(i)(E); 192.921(a)(7); 192.937(c)(7); 191.1(a); 192.8(b)(2); 192.9(g); 192.9(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. 192.18 Required Notifications to PHMSA** Do the records indicate proper and timely notifications to PHMSA for each notification type as required by §192.18(c)? (RPT.NR.19218NOTIF.R) | | | | | | | | | 192.18(c) (192.506(b); 192.607(e)(4); 192.607(e)(5); 192.624(c)(2)(iii); 192.624(c)(6); 192.632(b)(3); 192.710(c)(7); 192.712(d)(3)(iv); 192.712(e)(2)(i)(E); 192.921(a)(7); 192.937(c)(7); 191.1(a); 192.8(b)(2); 192.9(g); 192.9(h)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

## Reporting - Regulatory Reporting (Traditional)

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Annual Report Records - Gas Gathering** Do records document the methodology that the operator used to identify and classify Type A, B, C, and R gathering pipelines correctly and within required timeframes? (RPT.RR.GGSEGMENTID.R) | | | | | | | | | 192.8(b) (191.1(a); 191.17(a); 192.8(c)(3); 192.8(c)(4); 192.8) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Immediate Reporting: Incidents** Is there a process to immediately report incidents to the National Response Center? (RPT.RR.IMMEDREPORT.P) | | | | | | | | | 191.5(b) (191.7; 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Immediate Reporting: Incidents** Do records indicate immediate notifications of incidents were made in accordance with §191.5? (RPT.RR.IMMEDREPORT.R) | | | | | | | | | 191.5(a) (191.7(a); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Incident Reports** Does the process require preparation and filing of an incident report as soon as practicable but no later than 30 days after discovery of a reportable incident? (RPT.RR.INCIDENTREPORT.P) | | | | | | | | | 191.15(a) (192.624(a)(1); 192.624(a)(2); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Supplemental Incident Reports** Does the process require preparation and filing of supplemental incident reports? (RPT.RR.INCIDENTREPORTSUPP.P) | | | | | | | | | 191.15(d) (192.624(a); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Incident Reports** Do records indicate reportable incidents were identified and reports were submitted to DOT on the most recent Form within the required timeframe? (RPT.RR.INCIDENTREPORT.R) | | | | | | | | | 191.15(a) (192.624(a)(1); 192.624(a)(2); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Supplemental Incident Reports** Do records indicate accurate supplemental incident reports were filed and within the required timeframe using the most recent Form? (RPT.RR.INCIDENTREPORTSUPP.R) | | | | | | | | | 191.15(d) (191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Safety Related Condition Reports** Do processes require reporting of safety-related conditions? (RPT.RR.SRCR.P) | | | | | | | | | 192.605(a) (191.23(a); 191.23(b); 191.25(a); 191.25(b); 191.25(c); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Safety Related Condition Reports** Do records indicate Safety-Related Condition Reports were filed as required? (RPT.RR.SRCR.R) | | | | | | | | | 191.23(a) (191.23(b); 191.25(a); 191.25(b); 191.25(c); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. National Registry of Pipeline and LNG Operators (OPID)** Does the process require the obtaining, and appropriate control, of Operator Identification Numbers (OPIDs), including changes in entity, acquisition/divestiture, and construction/update/uprate? (RPT.RR.OPID.P) | | | | | | | | | 191.22(a) (191.22(c); 191.22(d); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. National Registry of Pipeline and LNG Operators (OPID)** Do records indicate appropriate obtaining, and control of, Operator Identification Numbers (OPIDs), including changes in entity, acquisition/divestiture, and construction/update/uprate? (RPT.RR.OPID.R) | | | | | | | | | 191.22(a) (191.22(c); 191.22(d); 191.1(a); 192.8(c)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

## Time-Dependent Threats - Atmospheric Corrosion

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Atmospheric Corrosion** Does the process give adequate guidance identifying atmospheric corrosion and for protecting above ground pipe from atmospheric corrosion? (TD.ATM.ATMCORRODE.P) | | | | | | | | | 192.605(b)(2) (192.479(a); 192.479(b); 192.479(c); 192.9(f)(1); 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Atmospheric Corrosion** Do records document the protection of above ground pipe from atmospheric corrosion? (TD.ATM.ATMCORRODE.R) | | | | | | | | | 192.491(c) (192.479(a); 192.479(b); 192.479(c); 192.9(f)(1); 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Atmospheric Corrosion Monitoring** Does the process give adequate instruction for the inspection of aboveground pipeline segments for atmospheric corrosion? (TD.ATM.ATMCORRODEINSP.P) | | | | | | | | | 192.605(b)(2) (192.481(a); 192.481(b); 192.481(c); 192.481(d); 192.9(f)(1); 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Atmospheric Corrosion Monitoring** Do records document inspection of aboveground pipe for atmospheric corrosion? (TD.ATM.ATMCORRODEINSP.R) | | | | | | | | | 192.491(c) (192.481(a); 192.481(b); 192.481(c); 192.481(d); 192.9(f)(1); 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Atmospheric Corrosion Monitoring** Is pipe that is exposed to atmospheric corrosion protected? (TD.ATM.ATMCORRODEINSP.O) | | | | | | | | | 192.481(b) (192.481(c); 192.479(a); 192.479(b); 192.479(c); 192.481(d); 192.9(f)(1); 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Cathodic Protection Criteria** Does the process require CP monitoring criteria to be used that is acceptable? (TD.CPMONITOR.MONITORCRITERIA.P) | | | | | | | | | 192.605(b)(2) (192.463(a); 192.463(c); 192.9(f)(1); 192.452(b); 192.452(c); 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Cathodic Protection Criteria** Do records document that the CP monitoring criteria used was acceptable? (TD.CPMONITOR.MONITORCRITERIA.R) | | | | | | | | | 192.491(c) (192.463(a); 192.9(f)(1); 182.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Cathodic Protection Criteria** Are methods used for taking CP monitoring readings that allow for the application of appropriate CP monitoring criteria? (TD.CPMONITOR.MONITORCRITERIA.O) | | | | | | | | | 192.465(a) (192.463(a); 192.463(b); 192.463(c); Part 192, Appendix D) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Cathodic Protection Monitoring** Does the process adequately describe how to monitor CP that has been applied to pipelines? (TD.CPMONITOR.TEST.P) | | | | | | | | | 192.605(b)(2) (192.465(a); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Cathodic Protection Monitoring** Do records adequately document cathodic protection monitoring tests have occurred as required? (TD.CPMONITOR.TEST.R) | | | | | | | | | 192.491(c) (192.465(a); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Rectifiers or other Impressed Current Sources** Does the process give sufficient details for making electrical checks of rectifiers or impressed current sources? (TD.CPMONITOR.CURRENTTEST.P) | | | | | | | | | 192.605(b)(2) (192.465(b); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Rectifiers or other Impressed Current Sources** Do records document details of electrical checks of sources of rectifiers or other impressed current sources? (TD.CPMONITOR.CURRENTTEST.R) | | | | | | | | | 192.491(c) (192.465(b); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Rectifiers or other Impressed Current Sources** Are impressed current sources properly maintained and are they functioning properly? (TD.CPMONITOR.CURRENTTEST.O) | | | | | | | | | 192.465(b) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Bonds, Diodes, and Reverse Current Switches** Does the process give sufficient details for making electrical checks of interference bonds, diodes, and reverse current switches? (TD.CPMONITOR.REVCURRENTTEST.P) | | | | | | | | | 192.605(b)(2) (192.465(c); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Bonds, Diodes and Reverse Current Switches** Do records document details of electrical checks interference bonds, diodes, and reverse current switches? (TD.CPMONITOR.REVCURRENTTEST.R) | | | | | | | | | 192.491(c) (192.465(c); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Bonds, Diodes and Reverse Current Switches** Are interference bonds, diodes, and reverse current switches properly maintained and are they functioning properly? (TD.CPMONITOR.REVCURRENTTEST.O) | | | | | | | | | 192.465(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Correction of Corrosion Control Deficiencies** Does the process require that the operator promptly correct any identified deficiencies in corrosion control? (TD.CPMONITOR.DEFICIENCY.P) | | | | | | | | | 192.605(b)(2) (192.465(d); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Correction of Corrosion Control Deficiencies** Do records adequately document actions taken to correct any identified deficiencies in corrosion control? (TD.CPMONITOR.DEFICIENCY.R) | | | | | | | | | 192.491(c) (192.465(d); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Test Stations** Does the process contain provisions to assure that each pipeline has sufficient test stations or other contact points to determine the adequacy of cathodic protection? (TD.CPMONITOR.TESTSTATION.P) | | | | | | | | | 192.469 (192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Test Stations** Do records identify the location of test stations and show a sufficient number of test stations? (TD.CPMONITOR.TESTSTATION.R) | | | | | | | | | 192.469 (192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Test Stations** Do cathodically protected pipelines have a sufficient number of test stations? (TD.CPMONITOR.TESTSTATION.O) | | | | | | | | | 192.469 | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Test Leads** Does the process provide adequate instructions for the installation of test leads? (TD.CPMONITOR.TESTLEAD.P) | | | | | | | | | 192.605(b)(2) (192.471(a); 192.471(b); 192.471(c); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. Test Leads** Do records document that pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart I? (TD.CPMONITOR.TESTLEAD.R) | | | | | | | | | 192.491(c) (192.471(a); 192.471(b); 192.471(c); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Test Leads** Do pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart I? (TD.CPMONITOR.TESTLEAD.O) | | | | | | | | | 192.471(a) (192.471(b); 192.471(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **25. Interference Currents** For pipelines other than onshore gas transmission, does the operator have a program in place to minimize detrimental effects of interference currents on its pipeline system? (TD.CPMONITOR.INTFRCURRENT.P) | | | | | | | | | 192.605(b)(2) (192.473(a); 192.9(d); 192.9(e); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Interference Currents** For pipelines other than onshore gas transmission, do records document an effective program is in place to minimize detrimental effects of interference currents and that detrimental effects of interference currents from CP systems on other underground metallic structures are minimized? (TD.CPMONITOR.INTFRCURRENT.R) | | | | | | | | | 192.491(c) (192.473(a); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **27. Interference Currents** Are areas of potential stray current identified, and if found, the detrimental effects of stray currents minimized? (TD.CPMONITOR.INTFRCURRENT.O) | | | | | | | | | 192.473(a) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **35. Corrosion Control Records** Do records indicate the location of all corrosion control items listed in §192.491(a)? (TD.CP.RECORDS.R) | | | | | | | | | 192.491(a) (192.491(b); 192.491(c); 192.9(f)(1); 192.452; 192.453)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Cathodic Protection post July 1971** Does the process require that each buried or submerged pipeline installed after July 31, 1971, be protected against external corrosion with a cathodic protection system within 1 year after completion of construction, conversion to service, or becoming jurisdictional onshore gathering? (TD.CP.POST1971.P) | | | | | | | | | 192.605(b)(2) (192.455(a); 192.452(a); 192.452(b); 192.455(f); 192.455(g); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Cathodic Protection post July 1971** Do records document that each buried or submerged pipeline installed after July 31, 1971, has been protected against external corrosion with a cathodic protection system within 1 year after completion of construction, conversion to service, or becoming jurisdictional onshore gathering? (TD.CP.POST1971.R) | | | | | | | | | 192.491(c) (192.455(a); 192.457(a); 192.452(a); 192.452(b); 192.455(f); 192.455(g); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Cathodic Protection pre August 1971** Does the process require that pipelines installed before August 1, 1971 (except for cast and ductile iron lines) which are 1) bare or ineffectively coated transmission lines or 2) bare or coated pipes in compressor, regulator or meter stations must be cathodically protected in areas where active corrosion is found? (TD.CP.PRE1971.P) | | | | | | | | | 192.605(b)(2) (192.457(b); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Cathodic Protection pre August 1971** Do records document that pipelines installed before August 1, 1971 (except for cast and ductile iron lines) which are 1) bare or ineffectively coated transmission lines, or 2) bare or coated pipes in compressor, regulator or meter stations have been cathodically protected in areas where active corrosion was found? (TD.CP.PRE1971.R) | | | | | | | | | 192.491(c) (192.457(b); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Cathodic Protection of Underground Piping** Are bare or coated pipes in compressor, regulator or meter stations installed before August 1, 1971 (except for cast and ductile iron lines) cathodically protected in areas where active corrosion was found in accordance with Subpart I of Part 192? (TD.CP.PRE1971.O) | | | | | | | | | 192.457(b) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Use of Aluminum** Does the process give adequate guidance for the installation of aluminum in a submerged or buried pipeline? (TD.CP.ALUMINUM.P) | | | | | | | | | 192.605(b)(2) (192.455(e); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Use of Aluminum** Do records support the installation of aluminum when it was installed in a submerged or buried pipeline? (TD.CP.ALUMINUM.R) | | | | | | | | | 192.491(c) (192.455(e); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Cathodic Protection of Amphoteric Metals** Does the process describe criteria to be used for cathodic protection of amphoteric metals (aluminum) that are included in a steel pipeline? (TD.CP.AMPHOTERIC.P) | | | | | | | | | 192.605(b)(2) (192.463(b); 192.463(c); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Cathodic Protection of Amphoteric Metals** Do records document adequate cathodic protection of amphoteric metals (aluminum) that are included in a steel pipeline? (TD.CP.AMPHOTERIC.R) | | | | | | | | | 192.491(c) (192.463(b); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. 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) | | | | | | | | | 192.605(b)(2) (192.465(e); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Unprotected Buried Pipelines (typically bare pipelines)** Do records adequately document the re-evaluation of non-cathodically protected buried pipelines for areas of active corrosion? (TD.CP.UNPROTECT.R) | | | | | | | | | 192.491(c) (192.465(e); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. 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.ELECISOLATE.P) | | | | | | | | | 192.605(b)(2) (192.467(a); 192.467(b); 192.467(c); 192.467(d); 192.467(e); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Isolation from Other Metallic Structures** Do records adequately document 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.ELECISOLATE.R) | | | | | | | | | 192.491(c) (192.467(a); 192.467(b); 192.467(c); 192.467(d); 192.467(e); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. 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.ELECISOLATE.O) | | | | | | | | | 192.467(a) (192.467(b); 192.467(c); 192.467(d); 192.467(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Inspection/Testing to Ensure Electrical Isolation** Does the process provide adequate guidance to inspect and electrically test to ensure that electrical isolation is adequate? (TD.CP.ELECISOLATETEST.P) | | | | | | | | | 192.605(b)(2) (192.467(d); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Inspection/Testing to Ensure Electrical Isolation** Do records adequately document the inspection and electrical testing performed to ensure that electrical isolation is adequate? (TD.CP.ELECISOLATETEST.R) | | | | | | | | | 192.491(c) (192.467(d); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Inspection/Testing to Ensure Electrical Isolation** Do field observations verify that inspection and electrical testing ensured that electrical isolation is adequate? (TD.CP.ELECISOLATETEST.O) | | | | | | | | | 192.467(d) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Protection from Fault Currents** Does the process provide 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) | | | | | | | | | 192.605(b)(2) (192.467(f); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. Protection from Fault Currents** Do records adequately document the installation and inspection of fault current and lightning protection? (TD.CP.FAULTCURRENT.R) | | | | | | | | | 192.491(c) (192.467(f); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. Protection from Fault Currents** Are fault current and lightning protection for the pipeline installed and inspected? (TD.CP.FAULTCURRENT.O) | | | | | | | | | 192.467(f) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. Graphitization of Cast Iron and Ductile Iron** Does the process give adequate guidance for remediation of graphitization of cast iron or ductile iron pipe? (TD.CP.GRAPHITIZE.P) | | | | | | | | | 192.605(b)(2) (192.489(a); 192.489(b); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **22. Graphitization of Cast Iron and Ductile Iron** Do records document remediation of graphitization of cast iron or ductile iron pipe? (TD.CP.GRAPHITIZE.R) | | | | | | | | | 192.491(c) (192.489(a); 192.489(b); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **23. Corrosion Control Records** Does the process include records requirements for the corrosion control activities listed in §192.491? (TD.CP.RECORDS.P) | | | | | | | | | 192.605(b)(2) (192.491(a); 192.491(b); 192.491(c); 192.9(f)(1); 192.452; 192.453)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **24. Corrosion Control Records** Do records indicate the location of all corrosion control items listed in §192.491(a)? (TD.CP.RECORDS.R) | | | | | | | | | 192.491(a) (192.491(b); 192.491(c); 192.9(f)(1); 192.452; 192.453)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

## Time-Dependent Threats - External Corrosion - Coatings

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. New Buried Pipe Coating** Does the process require that each buried or submerged pipeline installed after July 31, 1971 be externally coated with a material that is adequate for underground service on a cathodically protected pipeline? (TD.COAT.NEWPIPE.P) | | | | | | | | | 192.605(b)(2) (192.455(a)(1); 192.461(a); 192.461(b); 192.483(a); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. New Buried Pipe Coating** Do records document that each buried or submerged pipeline installed after July 31, 1971 has been externally coated with a suitable coating material? (TD.COAT.NEWPIPE.R) | | | | | | | | | 192.491(c) (192.455(a)(1); 192.461(a); 192.461(b); 192.483(a); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. New Buried Pipe w/o Coating** If a buried or submerged pipeline installed after July 31, 1971 was not installed with an external protective coating do records provide adequate documentation why such a coating was not necessary to protect the pipe from external corrosion? (TD.COAT.NEWPIPENOCOAT.R) | | | | | | | | | 192.491(c) (192.455(b); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. New Buried Pipe Coating Application** Does the process give adequate guidance for the application and inspection of protective coatings on pipe? (TD.COAT.NEWPIPEINSTALL.P) | | | | | | | | | 192.605(b)(2) (192.461(c); 192.461(d); 192.461(e); 192.483(a); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. New Buried Pipe Coating Application** Do records document that acceptable external protective coating materials have been used and the application and inspection was done in accordance with the written procedures? (TD.COAT.NEWPIPEINSTALL.R) | | | | | | | | | 192.491(c) (192.461(c); 192.461(d); 192.461(e); 192.483(a); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. New Buried Pipe Coating Application** Do field observations confirm pipe protective coating is adequately and properly applied? (TD.COAT.NEWPIPEINSTALL.O) | | | | | | | | | 192.461(a) (192.461(c); 192.461(d); 192.461(e); 192.319(b); 192.483(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Examination of Exposed Portions of Buried Pipe** Does the process require that exposed portions of buried pipeline be examined for external corrosion and coating deterioration, and if external corrosion is found, further examination is required to determine the extent of the corrosion? (TD.CPEXPOSED.EXPOSEINSPECT.P) | | | | | | | | | 192.605(b)(2) (192.459; 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Examination of Exposed Portions of Buried Pipe** Do records adequately document that exposed buried piping was examined for corrosion and deteriorated coating? (TD.CPEXPOSED.EXPOSEINSPECT.R) | | | | | | | | | 192.491(c) (192.459; 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Examination of Exposed Portions of Buried Pipe** Is exposed buried piping examined for corrosion and deteriorated coating? (TD.CPEXPOSED.EXPOSEINSPECT.O) | | | | | | | | | 192.459 | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Evaluation of Externally Corroded Pipe** Does the process provide sufficient direction for personnel to evaluate the remaining strength of externally corroded pipe? (TD.CPEXPOSED.EXTCORRODEEVAL.P) | | | | | | | | | 192.605(b)(2) (192.485(a); 192.485(b); 192.485(c); 192.9(f)(1); 192.452; 192.453; 192.712(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Evaluation of Externally Corroded Pipe** Do records adequately document the evaluation of externally corroded pipe? (TD.CPEXPOSED.EXTCORRODEEVAL.R) | | | | | | | | | 192.491(c) (192.485(a); 192.485(b); 192.485(c); 192.9(f)(1); 192.452; 192.453; 192.491; 192.712(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Repair of Externally Corroded Pipe** Does the process give sufficient guidance for personnel to repair or replace pipe that is externally corroded to an extent that there is not sufficient remaining strength in the pipe wall? (TD.CPEXPOSED.EXTCORRODREPAIR.P) | | | | | | | | | 192.605(b)(2) (192.485(a); 192.485(b); 192.485(c); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Repair of Externally Corroded Pipe** Do records document the repair or replacement of pipe that has been externally corroded to an extent that there is not sufficient remaining pipe wall strength? (TD.CPEXPOSED.EXTCORRODREPAIR.R) | | | | | | | | | 192.491(c) (192.485(a); 192.485(b); 192.485(c); 192.9(f)(1); 192.452; 192.453; 192.491) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Corrosion Control Records** Does the process include records requirements for the corrosion control activities listed in §192.491? (TD.CP.RECORDS.P) | | | | | | | | | 192.605(b)(2) (192.491(a); 192.491(b); 192.491(c); 192.9(f)(1); 192.452; 192.453)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Corrosion Control Records** Do records indicate the location of all corrosion control items listed in §192.491(a)? (TD.CP.RECORDS.R) | | | | | | | | | 192.491(a) (192.491(b); 192.491(c); 192.9(f)(1); 192.452; 192.453)  *Note: this question is presented in multiple places so you will see multiple instances of it on this report.* | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Internal Corrosion - Corrosive Gas** Does the process require that the corrosive effect of the gas in the pipeline be investigated? (TD.ICCG.CORRGAS.P) | | | | | | | | | 192.605(b)(2) (192.475(a); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Internal Corrosion - Corrosive Gas** Do records document the actions taken when corrosive gas is being transported by pipeline? (TD.ICCG.CORRGAS.R) | | | | | | | | | 192.491(c) (192.475; 192.9(f)(1); 192.452; 192.453; 192.491; 192.477; 192.478(a); 192.478(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Internal Corrosion Corrosive Gas Actions** Does the process give adequate direction for actions to be taken if corrosive gas is being transported by pipeline? (TD.ICCG.CORRGASACTION.P) | | | | | | | | | 192.605(b)(2) (192.477; 192.9(f)(1); 192.452; 192.453; 192.478) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Internal Corrosion Corrosive Gas Actions** Do records document the actions taken when corrosive gas is being transported by pipeline? (TD.ICCG.CORRGASACTION.R) | | | | | | | | | 192.491(c) (192.477; 192.9(f)(1); 192.452; 192.453; 192.491; 192.478(a); 192.478(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Internal Corrosion Corrosive Gas Actions** Are adequate actions taken when corrosive gas is being transported by pipeline? (TD.ICCG.CORRGASACTION.O) | | | | | | | | | 192.477 (192.478) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Internal Corrosion in Removed Pipe** Is removed pipe examined for evidence of internal corrosion? (TD.ICP.EXAMINE.O) | | | | | | | | | 192.475(a) (192.475(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. 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) | | | | | | | | | 192.605(b)(2) (192.9(f)(1); 192.452; 192.453; 192.485(a); 192.485(c); 192.712(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Evaluation of Internally Corroded Pipe** Do records document adequate evaluation of internally corroded pipe? (TD.ICP.EVALUATE.R) | | | | | | | | | 192.491(c) (192.9(f)(1); 192.452; 192.453; 192.485(a); 192.485(c); 192.491; 192.712(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Bottle Type and Pipe Type Holders** Does the process preclude storing gas containing more than 0.25 grain of hydrogen sulfide per 100 standard cubic feet (5.8 milligrams/m3) at standard conditions (4 parts per million) in pipe-type or bottle-type holders? (TD.ICP.PIPEBOTTLE.P) | | | | | | | | | 192.605(b)(2) (192.475(c); 192.9(f)(1); 192.452; 192.453) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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