**PSE GT Demo – IM Imple**

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**Assessment and Repair - Confirmatory Direct Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Qualification of Operator/Vendor Personnel Who Evaluate CDA Results** Do records demonstrate that operator/vendor personnel, including supervisors, who conduct assessments or review assessment results, are qualified for the tasks they perform? (AR.CDA.CDAREVQUAL.R) | | | | | | | | | 192.947(h) (192.915(a); 192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. ECDA Post-Assessment** Do records demonstrate that the requirements for post-assessment were met? (AR.EC.ECDAPOSTASSESS.R) | | | | | | | | | 192.947(g) (192.925(b)(4)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. External Corrosion** Do records demonstrate that required actions are being taken to address significant external corrosion threats as required? (AR.EC.ECCORR.R) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Validation of ILI Results** Do records demonstrate that the operator has validated ILI assessment results per their process? (AR.IL.ILIVALIDATE.R) | | | | | | | | | 192.947 (192.921(a)(1); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Compliance with ILI Procedures** Are O&M and IMP procedural requirements for the performance of ILI assessments followed? (AR.IL.ILIIMPLEMENT.O) | | | | | | | | | 192.921(a)(1) (192.620(d); 192.605(b); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Pressure Test Results** Do the test records validate the pressure test? (AR.PTI.PRESSTESTRESULT.R) | | | | | | | | | 192.517(a) (192.505(a); 192.505(b); 192.505(c); 192.505(d); 192.507(a); 192.507(b); 192.507(c); 192.513(a); 192.513(b); 192.513(c); 192.513(d); 192.517(b); 192.617; 192.619(a); 192.919(e); 192.921(a)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Pressure Test Completion** From field operations was the pressure test performed in accordance with Subpart J requirements and the process requirements? (AR.PTI.PRESSTESTCOMPLETE.O) | | | | | | | | | 192.503(a) (192.503(b); 192.503(c); 192.503(d); 192.505(a); 192.505(b); 192.505(c); 192.505(d); 192.507(a); 192.507(b); 192.507(c); 192.513(a); 192.513(b); 192.513(c); 192.513(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. PTI** Do records demonstrate that required actions are being taken to address significant corrosion threats as required? (AR.PTI.PTICORR.R) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

**Integrity Management - High Consequence Areas**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. IM High Consequence Areas - Newly Identified HCAs** Do records demonstrate new information that impacts, or creates a new, high consequence area has been integrated with the integrity management program? (IM.HC.HCANEW.R) | | | | | | | | | 192.947(d) (192.905(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. IM High Consequence Areas - Potential Impact Radius** Do records demonstrate the use of potential impact radius (PIR) for establishment of high consequence areas consistent with requirements of 192.903? (IM.HC.HCAPIR.R) | | | | | | | | | 192.947(d) (192.903; 192.905(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. IM High Consequence Areas** Are HCAs correctly identified per up-to-date information? (IM.HC.HCADATA.O) | | | | | | | | | 192.905(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Integrity Management - Baseline Assessments**

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

**Integrity Management - Continual Evaluation and Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Reassessment Intervals** Do records demonstrate that reassessment intervals were established consistent with the requirements of the operator's processes? (IM.CA.REASSESSINTERVAL.R) | | | | | | | | | 192.947(d) (192.937(a); 192.939(a); 192.939(b); 192.913(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. IM Continual Assessments - Methods** Do records document the assessment methods to be used and the rationale for selecting the appropriate assessment method? (IM.CA.REASSESSMETHOD.R) | | | | | | | | | 192.947(d) (192.937(c); 192.937(d); 192.506; 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Integrity Management - Preventive and Mitigative Measures**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. P&M Measures - General Requirements** Do records demonstrate that additional measures have been identified and implemented (or scheduled) beyond those already required by Part 192 to prevent a pipeline failure and to mitigate the consequences of a pipeline failure in an HCA? (IM.PM.PMMGENERAL.R) | | | | | | | | | 192.947 (192.935(a); 192.935(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. P&M Measures - Third Party Damage** Do records demonstrate that preventive & mitigative measures have been implemented regarding threats due to third party damage as required by the process? (IM.PM.PMMTPD.R) | | | | | | | | | 192.947 (192.917(e)(1); 192.935(b)(1); 192.935(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. P&M Measures - Qualifications of Supervisory Personnel** Do records demonstrate that personnel who implement preventive and mitigative measures or directly supervise excavation work are qualified? (IM.PM.PMMREVQUAL.R) | | | | | | | | | 192.947(e) (192.915(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. P&M Measures - Third Party Damage (Special Cases)** Do records demonstrate that preventive and mitigative measures for pipelines operating below 30% SMYS are being performed? (IM.PM.PMMTPDSMYS.R) | | | | | | | | | 192.947(d) (192.935(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. P&M Measures - Outside Force Damage** Do records demonstrate that significant threats due to outside force (e.g., earth movement, floods, unstable suspension bridge) are being adequately addressed? (IM.PM.PMMOF.R) | | | | | | | | | 192.947(d) (192.935(b)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. P&M Measures - Rupture Mitigation Valve (RMV) or Alternative Equivalent Technology (AET)** Do records demonstrate that the operator has determined, based on risk, whether RMVs or AETs should be added to protect high consequence areas? (IM.PM.PMMRMV.R) | | | | | | | | | 192.947(d) (192.935(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. P&M Measures - Implementation** Have identified additional preventive and mitigative measures to reduce the likelihood or consequence of a pipeline failure in an HCA been implemented? (IM.PM.PMMIMPLEMENT.O) | | | | | | | | | 192.935(a) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Integrity Management - Quality Assurance**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Record Keeping** Are required records being maintained for the life of the pipeline? (IM.QA.RECORDS.R) | | | | | | | | | 192.947(a) (192.947(b); 192.947(c); 192.947(d); 192.947(e); 192.947(f); 192.947(g); 192.947(h); 192.947(i); 192.517(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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.