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**Assessment and Repair - Confirmatory Direct Assessment**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Operator/Vendor Personnel Who Evaluate CDA Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate CDA assessment results meet appropriate training, experience, and qualification criteria? (AR.CDA.CDAREVQUAL.P) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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 | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Qualification of Operator/Vendor Personnel Who Evaluate CDA Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.CDA.CDAREVQUAL.O) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. CDA Plan** Is an adequate Confirmatory Direct Assessment Plan in place? (AR.CDA.CDAPLAN.P) | | | | | | | | | 192.931(a) (192.931(b); 192.931(c); 192.931(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. External Corrosion Plan** Do records indicate that the external corrosion plan was properly implemented? (AR.CDA.CDAEXTCORR.R) | | | | | | | | | 192.947(h) (192.931(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Internal Corrosion Plan** Do records demonstrate that the internal corrosion plan was properly implemented? (AR.CDA.CDAINTCORR.R) | | | | | | | | | 192.947(h) (192.931(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Remediation of Indications** Do records demonstrate that the next assessment should have been accelerated? (AR.CDA.CDAINDICATION.R) | | | | | | | | | 192.947(h) (192.931(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. CDA** Does the process adequately account for taking required actions to address significant corrosion threats identified using confirmatory direct assessment? (AR.CDA.CDACORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. CDA** Do records demonstrate that required actions are being taken to address significant corrosion threats identified by CDA as required? (AR.CDA.CDACORR.R) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Operator/Vendor Personnel Who Evaluate ECDA Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate ECDA assessment results meet appropriate training, experience, and qualification criteria? (AR.EC.ECDAREVQUAL.P) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. ECDA Pre-Assessment** Do records demonstrate that the ECDA pre-assessment process complied with NACE SP0502-2010 Section 3 and 192.925(b)(1)? (AR.EC.ECDAPREASSESS.R) | | | | | | | | | 192.947(g) (192.925(b)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Qualification of Operator/Vendor Personnel Who Evaluate ECDA Results** Do records demonstrate that operator/vendor personnel, including supervisors, who conduct ECDA assessments or review and analyze assessment results are qualified for the tasks they perform? (AR.EC.ECDAREVQUAL.R) | | | | | | | | | 192.947(g) (192.915(a); 192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Qualification of Operator/Vendor Personnel Who Evaluate ECDA Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.EC.ECDAREVQUAL.O) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. ECDA Plan** Is an adequate ECDA plan and process in place for conducting ECDA? (AR.EC.ECDAPLAN.P) | | | | | | | | | 192.925(a) (192.925(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Integration of ECDA Results with other Information** Is the process for integrating ECDA results with other information adequate? (AR.EC.ECDAINTEGRATION.P) | | | | | | | | | 192.917(b) (ASME B31.8S-2004 Section 4.5) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Integration of ECDA Results with other Information** Do records demonstrate that the operator integrated other data/information when evaluating data/results? (AR.EC.ECDAINTEGRATION.R) | | | | | | | | | 192.947(g) (192.917(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. ECDA Region Identification** Do records demonstrate that the operator identified ECDA Regions? (AR.EC.ECDAREGION.R) | | | | | | | | | 192.947(g) (192.925(b)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. ECDA Indirect Examination** Do records demonstrate that ECDA indirect inspection process complied with NACE SP 0502-2010 Section 4 and ASME B31.8S-2004, Section 6.4? (AR.EC.ECDAINDIRECT.R) | | | | | | | | | 192.947(g) (192.925(b)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. ECDA Direct Examination** Do records demonstrate that excavations, direct examinations, and data collection were performed in accordance with NACE SP 0502-2010, Sections 5 and 6.4.2 and ASME B31.8S-2004, Section 6.4? (AR.EC.ECDADIRECT.R) | | | | | | | | | 192.947(g) (192.925(b)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. ECDA Change Control** Do records demonstrate that changes in the ECDA plan have been implemented and documented? (AR.EC.ECDAPLANMOC.R) | | | | | | | | | 192.947(g) (192.925(b)(3)(iii)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. AMAOP ECDA** If ECDA was performed on segments (as allowed by §192.620(d)(9)(iii)), were all ECDA assessment requirements completed? (AR.EC.ECDAMAOP.R) | | | | | | | | | 192.947(g) (192.620(d)(9)(iii); 192.620(d)(10)(i); 192.620(d)(10)(iii); ) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. AMAOP ECDA** If ECDA was performed on segments (as allowed by §192.620(d)(9)(iii)), were all ECDA assessment requirements completed? (AR.EC.ECDAMAOP.O) | | | | | | | | | 192.620(d)(9)(iii) (192.620(d)(10)(i); 192.620(d)(10)(iii)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. External Corrosion** Does the process adequately account for taking required actions to address significant external corrosion threats? (AR.EC.ECCORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. ICDA Plan Pre-Assessment** Is an ICDA plan and process in place prior to conducting the pre-assessment step of ICDA? (AR.IC.ICDAPLANPRE.P) | | | | | | | | | 192.927(c) (192.927(a); 192.927(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. ICDA Plan Indirect Inspection** Is an ICDA plan and process in place prior to conducting the indirect inspection step in the ICDA process? (AR.IC.ICDAPLANINDIRECT.P) | | | | | | | | | 192.927(c) (192.927(a); 192.927(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. ICDA Plan Detailed Examination** Is an ICDA plan and process in place prior to conducting the detailed examination step of the ICDA process? (AR.IC.ICDAPLANEXAM.P) | | | | | | | | | 192.927(c) (192.927(a); 192.927(b); 192.485; 192.712; 192.714; 192.933) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. ICDA Plan Post Assessment** Is an ICDA plan and process in place prior to conducting the post assessment monitoring? (AR.IC.ICDAPLANPOST.P) | | | | | | | | | 192.927(c) (192.927(a); 192.927(b); 192.478; 192.485; 192.712; 192.714; 192.933) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Pre-Assessment** Do records demonstrate that the requirements for an ICDA pre-assessment were met? (AR.IC.ICDAPREASSESS.R) | | | | | | | | | 192.947(g) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. ICDA Region Identification** Do records demonstrate that ICDA Regions were adequately identified? (AR.IC.ICDAREGION.R) | | | | | | | | | 192.947(g) (192.927(c)(2); 192.927(c)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. ICDA Plan** Is an ICDA plan and process in place for conducting ICDA? (AR.IC.ICDAPLAN.P) | | | | | | | | | 192.927(c) (192.927(a); 192.927(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. AMAOP ICDA** If the pipeline is operated using an alternative maximum allowable operating pressure per 192.620 (80% SMYS Rule) were required ICDA assessments performed? (AR.IC.ICDAMAOP.R) | | | | | | | | | 192.947(g) (192.620(d)(9); 192.620(d)(10); 192.927) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. P&M Measures (Internal Corrosion)** Does the process adequately account for taking required actions to address significant internal corrosion threats related to internal corrosion? (AR.IC.ICCORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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 | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Qualification of Operator/Vendor Personnel Who Evaluate ICDA Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate ICDA assessment results meet appropriate training, experience, and qualification criteria? (AR.IC.ICDAREVQUAL.P) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Qualification of Operator/Vendor Personnel Who Evaluate ICDA Results** Do records demonstrate that operator/vendor personnel, including supervisors, who conduct ICDA assessments or review and analyze assessment results, are qualified for the tasks they perform? (AR.IC.ICDAREVQUAL.R) | | | | | | | | | 192.947(g) (192.915(a); 192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Qualification of Operator/Vendor Personnel Who Evaluate ICDA Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.IC.ICDAREVQUAL.O) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. SCCDA Preassessment Plan** Does the SCCDA plan include requirements for preassessment? (AR.SCC.SCCDAPLANPRE.P) | | | | | | | | | 192.929(b) (; ; ; ; ; ; ) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. SCCDA Indirect Inspection Plan** Is an adequate SCCDA plan developed prior to indirect inspections? (AR.SCC.SCCDAPLANINDIRECT.P) | | | | | | | | | 192.929(b) (192.929(b)(2); ; ; ; ; ; ) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. SCCDA Direct Examination Plan** Is an adequate plan developed prior to performing SCCDA? (AR.SCC.SCCDAPLANDIRECT.P) | | | | | | | | | 192.929(b) (192.929(b)(3); ; ; ; ; ; ) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. SCCDA Post Assessment Plan** Is an adequate SCCDA plan developed prior to post assessment requirements? (AR.SCC.SCCDAPLANPOST.P) | | | | | | | | | 192.929(b) (192.929(b)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. SCCDA Mitigate** Is an adequate plan developed for remediating and mitigating SCC once discovered? (AR.SCC.SCCDAMITIG.P) | | | | | | | | | 192.929(b)(4) (NACE SP0204, Section 5.5.1, 6.1.2 and 6.2.1; ASME B31.8S, Appendix A3 and A3.4) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Collect and Evaluate Data** Do records demonstrate that data was collected and evaluated? (AR.SCC.SCCDADATA.R) | | | | | | | | | 192.947(g) (192.929(b)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Indirect Inspection** Do records demonstrate that at least two Indirect Inspections were conducted using complementary measurement tools appropriate for the pipeline segment? (AR.SCC.SCCDAINSPECTION.R) | | | | | | | | | 192.947(g) (192.929(b)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Direct Examination** Do records demonstrate that a minimum of three direct examinations for SCC were performed within the covered pipeline segment? (AR.SCC.SCCDAEXAM.R) | | | | | | | | | 192.947(g) (192.929(b)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Assessment Method (Near Neutral and High pH SCC)** Do records demonstrate that the operator mitigated the threat of SCC, if found? (AR.SCC.SCCDAMITIG.R) | | | | | | | | | 192.947(g) (192.929(b)(4); NACE SP0204, Section 5.5.1, 6.1.2, and 6.2.1; ASME B31.8S, Appendix A3 and A3.4) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Assessment Method (Near Neutral and High pH SCC)** From field observations, was SCCDA performed in accordance with 192.929 and the SCCDA plan? (AR.SCC.SCCDAMETHOD.O) | | | | | | | | | 192.929 | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Assessing for Near Neutral SCC** From the review of the results of selected integrity assessments, was the pipeline evaluated for near neutral SCC? (AR.SCC.SCCDANEARNEUTRAL.R) | | | | | | | | | 192.947(g) (192.929(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Reassessment Interval** From the review of the results of selected integrity assessments, did the operator determine a reassessment interval based on SCCDA results? (AR.SCC.SCCDAREASSESSINTRVL.R) | | | | | | | | | 192.947(d) (192.939(a)(3)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. Alternative Maximum Allowable Operating Pressure per 192.620 (80% SMYS Rule)?** If the pipeline operates using an alternative maximum allowable operating pressure per 192.620 (80% SMYS Rule), from a review of selected records, were required SCCDA assessments performed? (AR.SCC.SCCDAAMAOP.R) | | | | | | | | | 192.620(d) (192.620(d)(9); 192.620(d)(10)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. SCC** Does the process adequately account for taking required actions to address significant corrosion threats found following SCCDA? (AR.SCC.SCCCORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. SCC** Do records demonstrate that required actions are being taken to address significant corrosion threats as required following SCCDA? (AR.SCC.SCCCORR.R) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. Qualification of Operator Personnel Who Evaluate SCCDA Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate SCCDA assessment results meet appropriate training, experience, and qualification criteria? (AR.SCC.SCCDAREVQUAL.P) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. Qualification of Operator Personnel Who Evaluate SCCDA 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.SCC.SCCDAREVQUAL.R) | | | | | | | | | 192.947(e) (192.915(a); 192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. Qualification of Operator Personnel Who Evaluate SCCDA Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.SCC.SCCDAREVQUAL.O) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Operator/Vendor Personnel (including Supervisors) Who Evaluate ILI Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate ILI assessment results meet appropriate training, experience, and qualification criteria? (AR.IL.ILIREVIEWQUAL.P) | | | | | | | | | 192.915(a) (192.915(b); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Qualification of Operator/Vendor Personnel (including Supervisors) Who Evaluate ILI Results** Do records demonstrate that personnel who conduct assessments or review assessment results are qualified per the process requirements? (AR.IL.ILIREVIEWQUAL.R) | | | | | | | | | 192.947(g) (192.915(a); 192.915(b); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Qualification of Operator/Vendor Personnel (including Supervisors) Who Evaluate ILI Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.IL.ILIREVIEWQUAL.O) | | | | | | | | | 192.915(a) (192.915(b); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. ILI Specifications** Does the process assure complete and adequate vendor ILI specifications? (AR.IL.ILISPECS.P) | | | | | | | | | 192.921(a)(1) (192.933(b); 192.493; 192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. ILI Specifications** Do records demonstrate that the ILI specifications were complete and adequate? (AR.IL.ILISPECS.R) | | | | | | | | | 192.947(g) (192.933(b); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. IMP Assessment Methods** Does the process specify the assessment methods that are appropriate for the pipeline specific integrity threats? (AR.IL.ASSESSMETHOD.P) | | | | | | | | | 192.919(b) (192.921(a); 192.937(c); 192.917; 192.493; 192.506) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. IMP Assessment Methods** Do records demonstrate that the assessment methods shown in the baseline and/or continual assessment plan were appropriate for the pipeline specific integrity threats? (AR.IL.ASSESSMETHOD.R) | | | | | | | | | 192.947 (192.919(b); 192.921(a); 192.937(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Validation of ILI Results** Does the process for validating ILI results ensure that accurate integrity assessment results are obtained? (AR.IL.ILIVALIDATE.P) | | | | | | | | | 192.921(a)(1) (192.937(c); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Validation of ILI Results** From observation of field activities, do the employees and vendors validate ILI assessment results per their process? (AR.IL.ILIVALIDATE.O) | | | | | | | | | 192.921(a)(1) (192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Integration of ILI Results with other Information** Is the process for integrating ILI results with other information adequate? (AR.IL.ILIINTEGRATION.P) | | | | | | | | | 192.917(b) (192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Integration of ILI Results with other Information** Do records demonstrate that the operator integrated other data/information when evaluating tool data/results? (AR.IL.ILIINTEGRATION.R) | | | | | | | | | 192.947 (192.917(b); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. ILI Acceptance Criteria** Do records indicate adequate implementation of the process for ILI survey acceptance? (AR.IL.ILIACCEPCRITERIA.R) | | | | | | | | | 192.947 (192.921(a); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. Integrity Assessments that were Not Performed as Scheduled or Within Required Timeframes** Do records indicate that the performance of integrity assessments has been delayed and integrity assessment delays have been justified? (AR.IL.ILIDELAY.R) | | | | | | | | | 192.947(d) (192.909(a); 192.909(b); 192.943(a); 192.943(b); 190.341; 192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. In-Line Inspection** Does the process adequately account for taking required actions to address significant corrosion threats identified during in-line inspections? (AR.IL.ILCORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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 - Low Stress Reassessment**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Low Stress Reassessment Plan** Is the process for performing low stress reassessment adequate? (AR.LSR.LSRPLAN.P) | | | | | | | | | 192.941 (192.919; 192.921; 192.941(b); 192.941(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Baseline Assessment** Do records demonstrate that a baseline assessment meeting the requirements of 192.919 and 192.921 was performed prior to performing a low stress reassessment? (AR.LSR.LSRBA.R) | | | | | | | | | 192.947(d) (192.919(c); 192.921(d); 192.941(a); 192.506) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. External Corrosion** Do records demonstrate that the requirements of §192.941(b) were implemented when performing low stress reassessment for external corrosion? (AR.LSR.LSREXTCORR.R) | | | | | | | | | 192.947(d) (192.941(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Internal Corrosion** Do records demonstrate that the requirements of §192.941(c) were implemented when performing low stress reassessment for internal corrosion? (AR.LSR.LSRINTCORR.R) | | | | | | | | | 192.947(d) (192.941(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. LSR - Corrosion** Does the process adequately account for taking required actions to address significant corrosion threats following a LSR? (AR.LSR.LSRCORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. LSR - Corrosion** Do records demonstrate that required actions are being taken to address significant corrosion threats as required following a LSR? (AR.LSR.LSRCORR.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Operator/Vendor Personnel Who Evaluate Pressure Test Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate pressure test assessment results meet appropriate training, experience, and qualification criteria? (AR.PTI.PRESSTESTREVQUAL.P) | | | | | | | | | 192.915(a) (192.915(b); 192.921(a)(4)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Test Acceptance Criteria and Procedures** Were test acceptance criteria and processes sufficient to assure the basis for an acceptable pressure test? (AR.PTI.PRESSTESTACCEP.P) | | | | | | | | | 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); 192.921(a)(2)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Alternative Maximum Allowable Operating Pressure per 192.620 (80% SMYS Rule)?** If the pipeline operates using an alternative maximum allowable operating pressure per 192.620 (80% SMYS Rule), from a review of selected records, were required pressure test assessments performed? (AR.PTI.PRESSTESTAMAOP.R) | | | | | | | | | 192.517(a) (192.505(a); 192.517(b); 192.620(c)(4); 192.620(d)(9); 192.620(d)(10)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. PTI** Does the process adequately account for taking required actions to address significant corrosion threats? (AR.PTI.PTICORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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 - Other Technology**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Other Technology** Has a process been developed for "other technologies" that provide an equivalent understanding of the condition of the pipe? (AR.OT.OTPLAN.P) | | | | | | | | | 192.921(a)(7) (192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Other Technology** Do records demonstrate that the assessments were performed in accordance with the process and vendor recommendations and that defects were identified and categorized within 180 days, if applicable? (AR.OT.OTPLAN.R) | | | | | | | | | 192.947(d) (192.921(a)(7); 192.933(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Qualification of Operator/Vendor Personnel Who Evaluate Other Technology Results** Does the process require that operator/vendor personnel (including supervisors) who review and evaluate assessment results meet acceptable qualification standards? (AR.OT.OTREVQUAL.P) | | | | | | | | | 192.915(a) (192.915(b); 192.921(a)(7); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Qualification of Operator Personnel Who Evaluate Other Technology 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.OT.OTREVQUAL.R) | | | | | | | | | 192.947(d) (192.915(a); 192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Qualification of Operator Personnel Who Evaluate Other Technology Results** From the observation of selected integrity assessments, are operator and vendor personnel, including supervisors, who conduct assessments or review assessment results, qualified for the tasks they perform? (AR.OT.OTREVQUAL.O) | | | | | | | | | 192.915(a) (192.915(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Other Technology** Were assessments conducted using "other technology" adequately performed in accordance with the OT process? (AR.OT.OTPLAN.O) | | | | | | | | | 192.921(a)(7) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Other Technology - Corrosion** Does the process adequately account for taking required actions to address significant corrosion threats identified using Other Technology? (AR.OT.OTCORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Other Technology - Corrosion** Do records demonstrate that required actions are being taken to address significant corrosion threats as required following the use of Other Technology? (AR.OT.OTCORR.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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **26. Non-Destructive Testing of Pipeline for Cracking and/or SCC When Exposed for Repair** Does the process require that when a pipeline segment that meets the conditions for cracking and/or possible SCC is exposed (i.e., the coating is removed), an NDE method (e.g., MPI, UT) is employed to evaluate for cracking? (AR.RMP.CRACKNDT.P) | | | | | | | | | 192.929(b) (ASME B31.8S-2004 Appendix A3.4) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Integrity Management - High Consequence Areas**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IM High Consequence Areas - HCA Identification** Does the process include the methods defined in 192.903 High Consequence Area (Method 1) and/or 192.903 High Consequence Area (Method 2) to be applied to each pipeline for the identification of high consequence areas? (IM.HC.HCAID.P) | | | | | | | | | 192.905(a) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. IM High Consequence Areas - HCA Identification** Do records demonstrate that the identification of pipeline segments in high consequence areas was completed in accordance with process requirements? (IM.HC.HCAID.R) | | | | | | | | | 192.947(d) (192.905(a); 192.907(a); 192.911(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. IM High Consequence Areas - Identification Method 1 (Class Locations)** Is the integrity management process adequate for identification of 192.903 High Consequence Areas using Method (1) for identification of HCAs? (IM.HC.HCAMETHOD1.P) | | | | | | | | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. IM High Consequence Areas - Identification Method 2 (Potential Impact Radius)** Is the integrity management process adequate for identification of 192.903 High Consequence Areas using Method (2)? (IM.HC.HCAMETHOD2.P) | | | | | | | | | 192.903(2)(i) (192.903(2)(ii)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. IM High Consequence Areas - Newly Identified HCAs** Does the process include a requirement for evaluation of new information that impacts, or creates a new, high consequence area? (IM.HC.HCANEW.P) | | | | | | | | | 192.905(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. IM High Consequence Areas - Potential Impact Radius** Is the process for defining and applying potential impact radius (PIR) for establishment of high consequence areas consistent with the requirements of 192.903? (IM.HC.HCAPIR.P) | | | | | | | | | 192.903 (192.905(a)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. IM High Consequence Areas - Identified Sites** Does the process for identification of identified sites include the sources listed in 192.905(b) for those buildings or outside areas meeting the criteria specified by 192.903 and require the source(s) of information selected to be documented? (IM.HC.HCASITES.P) | | | | | | | | | 192.903 (192.905(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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 - Risk Analysis**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Data Gathering** Does the process include requirements to gather and integrate existing data and information on the entire pipeline that could be relevant to covered segments? (IM.RA.RADATA.P) | | | | | | | | | 192.907 (192.917(b)(1); 192.917(b)(2); 192.917(b)(3); 192.917(b)(4); 192.917(e)(1); 192.911(k)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Risk Analysis - Methodology** Does the process include requirements for a risk assessment that considers all of the identified threats for each covered segment, including the requirements of ASME B31.8S-2004 (Section 5) and the need to address potential risk of a compromised operations control system (e.g., cyber-attack)? (IM.RA.RAMETHOD.P) | | | | | | | | | 192.907 (192.917(d); 192.917(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Threat Identification** Do records demonstrate that all potential threats to each covered pipeline segment have been identified and evaluated? (IM.RA.THREATID.R) | | | | | | | | | 192.947(b) (192.917(a); 192.917(e); 192.913(b)(1); 192.632) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Data Gathering** Do records demonstrate that existing data and information on the entire pipeline that could be relevant to covered segments being adequately gathered and integrated? (IM.RA.RADATA.R) | | | | | | | | | 192.947(b) (192.917(b); 192.917(b)(2); 192.917(b)(3); 192.917(b)(4); 192.917(e)(1); 192.911(k); 192.607) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Threat Identification** Does the process include requirements to identify and evaluate all potential threats to each covered pipeline segment? (IM.RA.THREATID.P) | | | | | | | | | 192.917(a) (192.917(e); 192.913(b)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Risk Analysis - Methodology** Do records demonstrate that the risk assessment follows 192.917(c), 192.917(d), and ASME B31.8S-2004, Section 5, and considers the identified threats for each covered segment? (IM.RA.RAMETHOD.R) | | | | | | | | | 192.947(b) (192.917(c); 192.917(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Risk Analysis - Determination of Risk** Does the process include requirements for factors that could affect the likelihood of a release, and for factors that could affect the consequences of potential releases, be accounted for and combined in an appropriate manner to produce a risk value for each pipeline segment? (IM.RA.RAFACTORS.P) | | | | | | | | | 192.907 (192.917(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Risk Analysis - Determination of Risk** Do records demonstrate that risk analysis data is combined in an appropriate manner to produce a risk value for each pipeline segment? (IM.RA.RAFACTORS.R) | | | | | | | | | 192.947(b) (192.917(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Risk Analysis - Validation and Updates** Does the process provide for revisions to the risk assessment if new information is obtained or conditions change on the pipeline segments? (IM.RA.RAMOC.P) | | | | | | | | | 192.917(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Risk Analysis - Validation and Updates** Was the risk assessment revised as necessary as new information is obtained or conditions change on the pipeline segments? (IM.RA.RAMOC.R) | | | | | | | | | 192.947(b) (192.917(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Risk Analysis - Validation and Updates** Are conditions on the pipeline segments accurately reflected in the appropriate risk assessment data and information? (IM.RA.RAMOC.O) | | | | | | | | | 192.917(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Integrity Management - Baseline Assessments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. IM Assessments - Environmental & Safety Risks** Does the process include requirements for conducting integrity assessments in a manner that minimizes environmental and safety risks? (IM.BA.BAENVIRON.P) | | | | | | | | | 192.911(o) (192.919(e); 192.750) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. IM Assessments - Environmental & Safety Risks** Do records demonstrate that integrity assessments have been conducted in a manner that minimizes environmental and safety risks? (IM.BA.BAENVIRON.R) | | | | | | | | | 192.947(d) (192.911(o); 192.919(e); 192.750) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. IM Assessments - Methods** Does the process include requirements for specifying an assessment method(s) that is best suited for identifying anomalies associated with specific threats identified for the covered segment? (IM.BA.BAMETHODS.P) | | | | | | | | | 192.919(b) (192.921(a); 192.921(c); 192.921(h); 192.937(c); Part 192 - Appendix F) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. IM Assessments - Methods** Do records demonstrate that the assessment method(s) specified is best suited for identifying anomalies associated with specific threats identified for the covered segment? (IM.BA.BAMETHODS.R) | | | | | | | | | 192.947(c) (192.919(b); 192.921(a); 192.921(c); 192.921(h); 192.947(d); 192.937(c); Part 192 - Appendix F) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. IM Baseline Assessments - New HCAs/Newly Installed Pipe** Does the process include requirements for updating the assessment plan for newly identified areas and newly installed pipe? (IM.BA.BANEW.P) | | | | | | | | | 192.911(p) (192.905(c); 192.921(f); 192.921(g)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. IM Baseline Assessments - New HCAs/Newly Installed Pipe** Do records demonstrate that the assessment plan has been adequately updated for new HCAs and newly installed pipe? (IM.BA.BANEW.R) | | | | | | | | | 192.947(d) (192.905(c); 192.911(p); 192.921(f); 192.921(g); 192.620) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. IM Baseline Assessments - Prioritized Schedule** Did the BAP process require a schedule for completing the assessment activities for all covered segments and consideration of applicable risk factors in the prioritization of the schedule? (IM.BA.BASCHEDULE.P) | | | | | | | | | 192.917(c) (192.919(c); 192.921(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. IM Baseline Assessments - Prioritized Schedule** Do records demonstrate that all BAP required assessments were completed as scheduled? (IM.BA.BASCHEDULE.R) | | | | | | | | | 192.947(c) (192.921(d); 192.947(d)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Low Stress Reassessments** Does the process include requirements for the "low stress reassessment" method to address threats of external and/or internal corrosion for pipelines operating below 30% SMYS? (IM.CA.LOWSTRESSREASSESS.P) | | | | | | | | | 192.941(a) (192.941(b); 192.941(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Reassessment Intervals** Is the process for establishing the reassessment intervals consistent with §192.939 and ASME B31.8S-2004? (IM.CA.REASSESSINTERVAL.P) | | | | | | | | | 192.937(a) (192.939(a); 192.939(b); 192.913(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Low Stress Reassessments** Do records demonstrate that the implementation of "low stress reassessment" method to address threats of external and/or internal corrosion is adequate and being performed as required? (IM.CA.LOWSTRESSREASSESS.R) | | | | | | | | | 192.947 (192.941(a); 192.941(b); 192.941(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **4. Periodic Evaluations** Does the process include requirements for a periodic evaluation of pipeline integrity based on data integration and risk assessment to identify the threats specific to each covered segment and the risk represented by these threats? (IM.CA.PERIODICEVAL.P) | | | | | | | | | 192.937(b) (192.917(a); 192.917(b); 192.917(c); 192.917(d); 192.917(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Periodic Evaluations** Do records demonstrate that periodic evaluations of pipeline integrity have been performed based on data integration and risk assessment to identify the threats specific to each covered segment and the risk represented by these threats? (IM.CA.PERIODICEVAL.R) | | | | | | | | | 192.947(d) (192.917(a); 192.917(b); 192.917(c); 192.917(d); 192.917(e); 192.937(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. IM Continual Assessments - Methods** Is the approach for establishing reassessment method(s) consistent with the requirements in 192.937(c)? (IM.CA.REASSESSMETHOD.P) | | | | | | | | | 192.937(c) (192.931; 192.937(d); 192.493; 192.506) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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 | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Waiver from Reassessment Interval in Limited Situations** Does the process include requirements for reassessment interval waivers (special permit per 190.341)? (IM.CA.REASSESSWAIVER.P) | | | | | | | | | 192.943(a) (192.943(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Waiver from Reassessment Interval in Limited Situations** Do records demonstrate that reassessment interval waivers (special permit per §190.341) have been adequately implemented, if applicable? (IM.CA.REASSESSWAIVER.R) | | | | | | | | | 192.947(d) (192.943(a); 192.943(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Deviation from Reassessment Requirements based on Exceptional Performance** Does the process include requirements for deviations from reassessment requirements based on exceptional performance? (IM.CA.REASSESSEXCPERF.P) | | | | | | | | | 192.913(a) (192.913(b); 192.913(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Deviation from Reassessment Requirements based on Exceptional Performance** Do records demonstrate that deviations from reassessment requirements are based on exceptional performance and have been adequately handled, if applicable? (IM.CA.REASSESSEXCPERF.R) | | | | | | | | | 192.947 (192.913(a); 192.913(b); 192.913(c)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Integrity Management - Preventive and Mitigative Measures**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. P&M Measures - General Requirements** Do the procedures include requirements to identify additional measures to prevent a pipeline failure and to mitigate the consequences of a pipeline failure in a high consequence area? (IM.PM.PMMGENERAL.P) | | | | | | | | | 192.907 (192.935(a); 192.935(f)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. P&M Measures - Third Party Damage** Does the preventive and mitigative measure process include requirements that threats due to third party damage be addressed? (IM.PM.PMMTPD.P) | | | | | | | | | 192.917(e)(1) (192.935(b)(1); 192.935(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. P&M Measures - Qualifications of Supervisory Personnel** Does the process require that persons who implement preventive and mitigative measures or directly supervise excavation work be qualified? (IM.PM.PMMREVQUAL.P) | | | | | | | | | 192.915(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. P&M Measures - Third Party Damage (Special Cases)** Do the procedures include requirements for preventive and mitigative measures for pipelines operating below 30% SMYS? (IM.PM.PMMTPDSMYS.P) | | | | | | | | | 192.907 (192.935(b)(1)(i); 192.935(b)(1)(iii); 192.935(d); 192 Appendix E Table E.II.1) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. P&M Measures - Plastic Transmission Pipelines** Do the procedures include requirements for preventive and mitigative measures for plastic transmission pipelines? (IM.PM.PMMPLASTIC.P) | | | | | | | | | 192.907 (192.935(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. P&M Measures - Plastic Transmission Pipelines** Do records demonstrate that preventive and mitigative measures for plastic transmission pipelines were performed? (IM.PM.PMMPLASTIC.R) | | | | | | | | | 192.947(d) (192.935(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. P&M Measures - Outside Force Damage** Does the process adequately address significant threats due to outside force (e.g., earth movement, floods, unstable suspension bridge)? (IM.PM.PMMOF.P) | | | | | | | | | 192.935(b)(2) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **13. P&M Measures - Rupture Mitigation Valve (RMV) or Alternative Equivalent Technology (AET)** Does the process include requirements to decide if RMVs or AETs represent an efficient means of adding protection to potentially affected HCAs? (IM.PM.PMMRMV.P) | | | | | | | | | 192.935(c) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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 | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. P&M Measures - Corrosion** Does the process adequately account for taking required actions to address significant corrosion threats? (IM.PM.PMCORR.P) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. P&M Measures - Corrosion** Do records demonstrate that required actions are being taken to address significant corrosion threats as required? (IM.PM.PMCORR.R) | | | | | | | | | 192.933 (192.917(e)(5)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Integrity Management - Quality Assurance**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Quality Assurance** Are quality assurance processes in place for risk management applications that meet the requirements of ASME B31.8S-2004, Section 12? (IM.QA.QARM.P) | | | | | | | | | 192.911(l) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Invoking Non-Mandatory Statements in Standards** Does the process include requirements that non-mandatory requirements (e.g., "should" statements) from industry standards or other documents invoked by Subpart O (e.g., ASME B31.8S-2004 and NACE SP0502-2010) be addressed by an appropriate approach? (IM.QA.IMNONMANDT.P) | | | | | | | | | 192.7(a) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **5. Quality Assurance** Do records demonstrate that the quality assurance process for risk management applications is being completed as required by ASME B31.8S-2004, Section 12? (IM.QA.QARM.R) | | | | | | | | | 192.947(d) (192.911(l)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **6. Record Keeping** Is the process adequate to assure that required records are maintained for the useful life of the pipeline? (IM.QA.RECORDS.P) | | | | | | | | | 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 | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **7. Management of Change** Is the process for management of changes that may impact pipeline integrity adequate? (IM.QA.IMMOC.P) | | | | | | | | | 192.911(k) (192.13(d); 192.909(a); 192.909(b))  *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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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. Management of Change** Do records demonstrate that changes that may impact pipeline integrity are being managed as required? (IM.QA.IMMOC.R) | | | | | | | | | 192.947(d) (192.13(d); 192.909(a); 192.909(b); 192.911(k)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. Measuring Program Effectiveness** Does the process for measuring IM program effectiveness include the elements necessary to conduct a meaningful evaluation? (IM.QA.IMPERFEFECTIVE.P) | | | | | | | | | 192.945(a) (192.913(b); 192.951) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **10. Measuring Program Effectiveness** Do records demonstrate that the methods to measure Integrity Management Program effectiveness provide effective evaluation of program performance and result in program improvements where necessary? (IM.QA.IMPERFEFECTIVE.R) | | | | | | | | | 192.947(d) (192.913(b); 192.945(a); 192.951) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **11. Performance Metrics** Does the process to evaluate IM program effectiveness include an adequate set of performance metrics to provide meaningful insight into IM program performance? (IM.QA.IMPERFMETRIC.P) | | | | | | | | | 192.945(a) (192.913(b); 192.951) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **12. Performance Metrics** Do records demonstrate that performance metrics are providing meaningful insight into integrity management program performance? (IM.QA.IMPERFMETRIC.R) | | | | | | | | | 192.947(d) (192.913(b); 192.945(a); 192.951) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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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 | | | | | | | | |

**Maintenance and Operations - Gas Pipeline Operations**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **32. Management of Change** Is the process for management of changes that may impact pipeline integrity adequate? (IM.QA.IMMOC.P) | | | | | | | | | 192.911(k) (192.13(d); 192.909(a); 192.909(b))  *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 | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **8. DP Information Gathering Requirements** Does the process require critical damage prevention information be gathered and recorded during pipeline patrols, leak surveys, and integrity assessments? (PD.DP.DPINFOGATHER.P) | | | | | | | | | 192.917(b) (192.935(b)(1)(ii)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9. DP Information Gathering Requirements** Do records demonstrate that critical damage prevention information is being gathered and recorded during pipeline patrols, leakage surveys, and integrity assessments? (PD.DP.DPINFOGATHER.R) | | | | | | | | | 192.947(b) (192.917(b); 192.935(b)(1)(ii)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Reporting - Notices and Reporting**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **14. IM Management of Change** Is the process for notifying PHMSA and/or state/local authorities of significant changes to the Integrity Management Program adequate? (RPT.NR.NOTIFYIMCHANGE.P) | | | | | | | | | 192.909(b) (192.921(a)(7); 192.937(c)(7); 192.18) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **15. IM Management of Change** Do records demonstrate that PHMSA and/or state/local authorities were notified of substantial or significant changes to the Integrity Management Program? (RPT.NR.NOTIFYIMCHANGE.R) | | | | | | | | | 192.947(i) (192.909(b); 192.921(a)(7); 192.937(c)(7)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **16. IM Pressure Reductions** Do processes require notifying PHMSA and/or state/local authorities: 1) if the schedule for evaluation and remediation required under paragraph 192.933(c) cannot be met and safety cannot be provided through temporary reduction in operating pressure or other action, and 2) when a pressure reduction exceeds 365 days? (RPT.NR.NOTIFYIMPRESS.P) | | | | | | | | | 192.933(a)(1) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **17. IM Pressure Reductions** Do records demonstrate that PHMSA and/or state/local authorities were notified with the required information when one of the following occurred: 1) schedule for evaluation and remediation could not be met and safety could not be provided through a temporary reduction in operating pressure, or 2) when a pressure reduction exceeded 365 days? (RPT.NR.NOTIFYIMPRESS.R) | | | | | | | | | 192.947(i) (192.933(a)(1)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **18. IM Performance Measures (Deviate)** Is there a process for reporting integrity management program performance measures if deviating from certain IMP requirements (exceptional performance)? (RPT.NR.IMDEVIATERPT.P) | | | | | | | | | 192.913(b)(1)(vii) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **19. IM Performance Measures (Deviate)** Do records demonstrate adequate reporting of integrity management program performance measures if deviating from certain IMP requirements (exceptional performance)? (RPT.NR.IMDEVIATERPT.R) | | | | | | | | | 192.947(i) (192.913(b)(1)(vii)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **20. IM Performance Reporting** Is there a process for annual reporting of integrity management performance data? (RPT.NR.IMPERFRPT.P) | | | | | | | | | 192.947(i) (192.945(a); 191.17; ASME B31.8S-2004 Appendix A Section 9.8) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **21. IM Performance Reporting** Do annual reports demonstrate that integrity management performance data were reported? (RPT.NR.IMPERFRPT.R) | | | | | | | | | 192.947(i) (192.945(a); 191.17; ASME B31.8S-2004 Appendix A Section 9.8) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Time-Dependent Threats - Stress Corrosion Cracking**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. SCC on HCA Sections** Does the integrity management program have a process to identify and evaluate stress corrosion cracking threats to each covered pipeline segment? (TD.SCC.SCCIM.P) | | | | | | | | | 192.911(c) (192.917(a)(1); 192.917(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. SCC on HCA Sections** Do integrity management program records document results of studies to identify and evaluate stress corrosion cracking threats to each covered pipeline segment? (TD.SCC.SCCIM.R) | | | | | | | | | 192.947(d) (192.917(a)(1); 192.917(e)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Remediation of SCC** Do records document that the operator has properly remediated any occurrences of SCC? (TD.SCC.SCCREPAIR.R) | | | | | | | | | 192.709(a) (192.703(b)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

**Training and Qualification - Qualification of Personnel - Specific Requirements (IM)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Qualification of Personnel for the Integrity Management Program** Does the process require that operator/vendor personnel (including supervisors and persons responsible for preventive and mitigative measures), who review and evaluate results meet acceptable qualification standards? (TQ.QUIM.IMREVIEWQUAL.P) | | | | | | | | | 192.915(a) (192.915(b); 192.915(c); 192.935(b); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **2. Qualification of Personnel for the Integrity Management Personnel** Do records indicate adequate qualification of integrity management personnel? (TQ.QUIM.IMREVIEWQUAL.R) | | | | | | | | | 192.947(e) (192.915(a); 192.915(b); 192.915(c); 192.935(b)(1)(i); 192.947(d); 192.493) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | Sat+ | Sat | Concern | Unsat | NA | NC |  |  | |  |  |  |  |  |  |  | | | Notes | | | | | | | | |

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **3. Integrity Management Program Quality Control Plan** Does the process require personnel who execute IM program activities to be competent and qualified in accordance with the quality control plan in accordance with ASME B31.8S-2004, Section 12.2(b)(4)? (TQ.QUIM.IMQC.P) | | | | | | | | | 192.805(b) (ASME B31.8S-2004, Section 12.2(b)(4); 192.935(b)(1)(i); 192.907(b); 192.911(l)) | | | | | | | | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | 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.