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

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| **1. 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)  |
| 195.505 (195.452(b)(5); 195.452(f)(8); 195.555)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. 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)  |
| 195.505 (195.452(f)(8); 195.555)  |
|   |  |  |  |  |  |  |  |
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| **3. Qualification of Operator/Vendor Personnel Who Evaluate ECDA Results** Do the records indicate 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)  |
| 195.507 (195.452(l)(1); 195.555)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. ECDA Plan** Is there a process in place for conducting ECDA? (AR.EC.ECDAPLAN.P)  |
| 195.588(b)(1) (195.588(b)(2) - (5); 195.452(f)(5); 195.452(j)(5)(iii))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. ECDA Pre-Assessment** Do the records indicate that the ECDA pre-assessment process complied with NACE SP0502-2010 Section 3? (AR.EC.ECDAPREASSESS.R)  |
| 195.589(c) (195.588(b)(2); 195.452(l)(1)(ii); 195.452(j)(5)(iii); 195.452(f)(5))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. Integration of ECDA Results with Other Information** Does the process include integrating ECDA results with other information? (AR.EC.ECDAINTEGRATION.P)  |
| 195.452(f)(3) (195.452(g); 195.588(b))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. Integration of ECDA Results with Other Information** Do the records indicate that the operator integrated other data/information when evaluating data/results? (AR.EC.ECDAINTEGRATION.R)  |
| 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g); 195.588(b))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. ECDA Region Identification** Do the records indicate that the operator identified ECDA Regions? (AR.EC.ECDAREGION.R)  |
| 195.589(c) (195.588(b)(2)(ii); 195.588(b)(3); 195.588(b)(5)(ii); 195.452(l)(1)(ii); 195.452(f)(5); 195.452(j)(5)(iii); 195.588(b)(1))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. ECDA Indirect Examination** Do the records indicate that the ECDA indirect inspection process complied with NACE SP0502-2010? (AR.EC.ECDAINDIRECT.R)  |
| 195.589(c) (195.588(b)(3); 195.452(l)(1)(ii); 195.452(f)(5); 195.452(j)(5)(iii))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. ECDA Direct Examination** Do the records indicate that excavations, direct examinations, and data collection were performed in accordance with NACE SP0502-2010, Section 5? (AR.EC.ECDADIRECT.R)  |
| 195.589(c) (195.588(b)(4); 195.452(l)(1)(ii); 195.452(f)(5); 195.452(j)(5)(iii))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. ECDA Direct Examination** Were ECDA direct examinations conducted in accordance with the plan? (AR.EC.ECDADIRECT.O)  |
| 195.588(b)(4) (195.588(b)(1); 195.452(b)(5); 195.452(f)(5); )  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **12. Quality of ECDA Data Analysis** Do the records indicate that an analysis of the ECDA data and other information was adequate to identify areas where external corrosion activity is most likely? (AR.EC.ECDAANALYSIS.R)  |
| 195.452(l)(1)(ii) (195.452(g); 195.452(f)(3); 195.452(j)(5)(iii))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **13. ECDA Change Control** Have criteria and internal notification processes been established and implemented for any changes in the ECDA plan? (AR.EC.ECDAPLANMOC.P)  |
| 195.588(b)(4)(iii) (195.452(f)(4))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **14. ECDA Change Control** Do the records indicate that changes in the ECDA plan have been implemented and documented? (AR.EC.ECDAPLANMOC.R)  |
| 195.589(c) (195.588(b)(4)(iii); 195.452(l)(1)(ii); 195.452(f)(4))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **15. ECDA Post-Assessment** Do the records indicate that the requirements for post assessment were implemented? (AR.EC.ECDAPOSTASSESS.R)  |
| 195.589(c) (195.588(b)(5); 195.452(l)(1)(ii); 195.452(f)(4))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Assessment and Repair - Integrity Assessments**

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| **3. IMP Assessment Methods** Does the process specify assessment methods that are appropriate for the pipeline integrity threats? (AR.IA.METHOD.P)  |
| 195.452(f)(5) (195.452(j)(5); 195.452(c)(1)(i)(A); 195.591; 195.588)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. IMP Assessment Methods** Do the records indicate that the assessment methods shown in the assessment plan are appropriate for the pipeline specific integrity threats? (AR.IA.METHOD.R)  |
| 195.452(l)(1)(ii) (195.452(f)(5); 195.452(j)(5); 195.452(c)(1)(i)(A); 195.591; 195.588)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. IMP Baseline and/or Continual Assessments Prioritized Assessment Schedule** Does the process for assessment include a prioritized schedule in accordance with 195.452(d) for baseline assessments and 195.452 (j) for continual assessments that is based on all the risk factors required by 195.452(e)? (AR.IA.ASSESSSCHEDULE.P)  |
| 195.452(f)(5) (195.452(j)(3); 195.452(j)(5); 195.452(e); 195.452(g); 195.591; 195.452(d)(1); 195.452(n))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. IMP Baseline and/or Continual Assessments Prioritized Assessment Schedule** Do the records indicate that assessments are implemented as specified in the assessment plan? (AR.IA.ASSESSSCHEDULE.R)  |
| 195.452(l)(1)(ii) (195.452(b)(5); 195.452(c); 195.452(d); 195.452(f)(5); 195.452(j)(3); 195.452(j)(5); 195.591)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. Qualification of Personnel Who Evaluate Integrity Assessment Results and Perform Information Analysis** Does the process specify qualification requirements for personnel who review and evaluate integrity assessment results and information analysis? (AR.IA.REVIEWQUAL.P)  |
| 195.452(f)(8) (195.452(g); 195.452(h)(2))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. Qualification of Personnel Who Evaluate Integrity Assessment Results and Perform Information Analysis** Do the records indicate that personnel who review and evaluate integrity assessment results and information analysis are qualified? (AR.IA.REVIEWQUAL.R)  |
| 195.452(l)(1)(ii) (195.452(f)(8); 195.452(g); 195.452(h)(2))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. Industry Practices** Does the process incorporate recognized industry practices, or an acceptable alternative method, in performing integrity assessments? (AR.IA.STANDARDS.P)  |
| 195.452(f)(5) (195.452(b)(6))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. Industry Practices** Do the records indicate that recognized industry practices, or an acceptable alternative method, have been incorporated in performing integrity assessments? (AR.IA.STANDARDS.R)  |
| 195.452(l)(1)(ii) (195.452(b)(6))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
|  |  |  |  |  |  |   |
| Notes |

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

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| **1. Qualification of Personnel Performing ILI** Does the process identify the qualification requirements for personnel who perform ILI (In Line Inspections)? (AR.IL.ILIIMPLPERQUAL.P)  |
| 195.452(f)(5) (195.591)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
|  |  |  |  |  |  |   |
| Notes |

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| **2. Qualification of Personnel Performing ILI** Do the records indicate that personnel who perform ILI (In Line Inspections) are qualified and certified (where applicable)? (AR.IL.ILIIMPLPERQUAL.R)  |
| 195.591 (195.452(l)(1)(ii); 195.452(f)(5))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **3. Qualification of Personnel Who Evaluate ILI Results and Perform Information Analysis** Does the process specify qualification requirements for personnel who review and evaluate ILI integrity assessment results and information analysis? (AR.IL.ILIREVIEWQUAL.P)  |
| 195.452(f)(8) (195.452(g))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Qualification of Personnel Who Evaluate ILI Results and Perform Information Analysis** Do the records indicate that personnel who review and evaluate ILI integrity assessment results and information analysis are qualified? (AR.IL.ILIREVIEWQUAL.R)  |
| 195.452(l)(1)(ii) (195.452(f)(8); 195.452(g))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **5. ILI Specifications** Does the process include adequate ILI requirements for the qualification of in-line inspection systems, including personnel, equipment, processes, and software utilization? (AR.IL.ILISPECS.P)  |
| 195.452(f)(5) (195.452(h); 195.452(j); 195.591)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. Validation of ILI Results** Does the process include the validation of ILI results? (AR.IL.ILIVALIDATE.P)  |
| 195.452(f)(4) (195.452(j)(5)(i); 195.452(h); 195.591)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **8. Validation of ILI Results** Do the records for validating ILI assessment results indicate that the process was implemented? (AR.IL.ILIVALIDATE.R)  |
| 195.452(l)(1)(ii) (195.452(j)(5)(i); 195.452(f)(4); 195.452(h); 195.452(c)(1); 195.591; 195.452(c)(1)(i)(A))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. Integration of ILI Results with Other Information** Does the process for evaluating ILI results include integration of all available information about the integrity of the pipeline? (AR.IL.ILIINTEGRATION.P)  |
| 195.452(f)(3) (195.452(g); 195.452(h))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. Integration of ILI Results with Other Information** Do the records indicate that the operator integrated other data/information when evaluating ILI tool data/results? (AR.IL.ILIINTEGRATION.R)  |
| 195.452(l)(1)(ii) (195.452(g); 195.452(f)(3); 195.452(h))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. Compliance with ILI Procedures** Have the ILI procedures been followed? (AR.IL.ILIIMPLEMENT.O)  |
| 195.452(b)(5)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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

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| **1. Pressure Test Acceptance Criteria and Procedures** Does the process define acceptance criteria for a successful pressure test? (AR.PTI.PRESSTESTACCEP.P)  |
| 195.452(f)(5) (195.304; 195.305; 195.306; 195.308; 195.452(j)(5)(ii))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. Quality and Effectiveness of Corrosion Control Program** Does the process require that the effectiveness of the corrosion control program be evaluated when using pressure testing as an integrity assessment? (AR.PTI.PRESSTESTCORR.P)  |
| 195.452(f)(3) (195.452(g)(3))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **3. Conduct of Pressure Tests** Was the pressure test conducted in accordance with the procedures? (AR.PTI.PRESSTESTRESULT.O)  |
| 195.452(b)(5) (195.452(c)(1)(i)(B); 195.452(j)(5)(ii); 195.304)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Conduct of Pressure Tests** Do the pressure test records indicate compliance with Part 195, Subpart E? (AR.PTI.PRESSTESTRESULT.R)  |
| 195.310 (195.452(f)(2); 195.452(f)(5); 195.452(c); 195.452(l)(1)(ii))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **5. Quality and Effectiveness of Corrosion Control Program** When pressure testing was used as the integrity assessment method, do the records indicate that the effectiveness of the corrosion control program was documented? (AR.PTI.PRESSTESTCORR.R)  |
| 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g)(3))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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**Assessment and Repair - Other Technology**

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| **1. Other Technology Process** If "Other Technologies" are used, does the process provide an equivalent understanding of the condition of the line pipe? (AR.OT.OTPLAN.P)  |
| 195.452(f)(5) (195.452(c)(1)(i)(D); 195.452(j)(5)(iv); 195.416(d))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
|  |  |  |  |  |  |   |
| Notes |

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| **2. Other Technology Process** Do the records indicate that the Other Technology integrity assessments were performed in accordance with procedures and vendor recommendations? (AR.OT.OTPLAN.R)  |
| 195.452(l)(1)(ii) (195.452(j)(5)(iv); 195.452(f)(5); 195.452(c)(1)(i)(D); 195.416(d))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **3. Other Technology Process** Has the process for the use of "Other Technology" been followed? (AR.OT.OTPLAN.O)  |
| 195.452(b)(5) (195.416(d))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Qualification Requirements for Personnel Who Evaluate Results of Other Technology Integrity Assessments** Does the process specify qualification requirements for personnel who review and evaluate the results of an integrity assessment and information analysis using Other Technology? (AR.OT.ASSESSMENTREVIEW.P)  |
| 195.452(f)(8) (195.452(j)(5); 195.416(d))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **5. Qualification Requirements for Personnel Who Evaluate Results of Other Technology Integrity Assessments** Do the records pertaining to the selected integrity assessments indicate that personnel who review and evaluate the results of an integrity assessment and information analysis using Other Technology are qualified? (AR.OT.ASSESSMENTREVIEW.R)  |
| 195.452(l)(1)(ii) (195.452(f)(8); 195.452(j)(5); 195.416(d))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Assessment and Repair - Repair Criteria (HCA)**

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| **1. Timely Discovery** Does the integrity assessment process define "discovery of condition" and the required time frame for anomalies in a pipeline segment that can affect an HCA? (AR.RCHCA.DISCOVERY.P)  |
| 195.452(f)(4) (195.452(h)(2))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **2. IM Schedule** Does the process include developing a prioritized schedule for evaluating and remediating all identified repair conditions consistent with the repair criteria and within the time frames found in 195.452(h)(4)? (AR.RCHCA.IMSCHEDULE.P)  |
| 195.452(f)(4) (195.452(h)(3); 195.452(h)(4))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
|  |  |  |  |  |  |   |
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| **4. Timely Discovery** Do the records indicate that “discovery of condition” results for all anomalies occurred promptly, but no later than 180 days after the completion of the integrity assessment? (AR.RCHCA.DISCOVERY.R)  |
| 195.452(l)(1)(ii) (195.452(h)(2); 195.452(f)(4))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. Inclusion of All IM Repair Criteria** Does the process include criteria for remedial action to address integrity issues raised by the assessment methods and information analysis? (AR.RCHCA.IMPRC.P)  |
| 195.452(f)(4) (195.452(h)(1); 195.452(h)(4))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **6. Remedial Actions (IM)** Do records indicate that anomaly remediation and documentation of remediation was performed in accordance with the process? (AR.RCHCA.REMEDIATION.R)  |
| 195.452(l)(1)(ii) (195.452(h)(3); 195.452(h)(4); 195.452(b)(5); 195.569)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. Inclusion of All IM Repair Criteria** Do records indicate that prompt action was taken to address all anomalous conditions discovered through the integrity assessment or information analysis? (AR.RCHCA.IMPRC.R)  |
| 195.452(l)(1)(ii) (195.452(f)(4); 195.452(h)(1); 195.452(h)(4))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. Remedial Actions (IM)** From an observation of a remediation or repair at an excavation site, are anomaly remediation activities adequate, performed in accordance with the categorized remediation/repair schedule, and documented? (AR.RCHCA.REMEDIATION.O)  |
| 195.452(b)(5) (195.402(a); 195.402(c)(14); 195.422(a); 195.569; 195.589(c))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. Remedial Actions (IM)** Does the process require that remedial actions be performed in a manner that addresses the integrity issues raised by the assessment methods used and information analysis? (AR.RCHCA.REMEDIATION.P)  |
| 195.452(f)(4) (195.452(h)(1); 195.422(b))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. Pressure Reduction** Does the process for pressure reduction meet the code requirements? (AR.RCHCA.PRESSREDUCE.P)  |
| 195.452(f)(4) (195.428; 195.452(h)(1)(i); 195.452(h)(1)(ii))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. Pressure Reduction** Do the integrity assessment records indicate that the pressure reduction taken was acceptable and promptly implemented? (AR.RCHCA.PRESSREDUCE.R)  |
| 195.452(l)(1)(ii) (195.404(a); 195.404(b); 195.452(h)(1)(ii); 195.452(h)(4)(i); 195.55(a); 195.56)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **12. IM Schedule** Do the records indicate that the operator has met the schedule for remediating a condition in accordance with 195.452(h)(4)? (AR.RCHCA.IMSCHEDULE.R)  |
| 195.452(l)(1)(ii) (195.452(h)(3); 195.452(h)(4))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **14. Crack Remediation Criteria** If the pipeline is susceptible to cracking, does the process include criteria for remedial actions to address integrity issues raised by the assessment method? (AR.RCHCA.CRACKREMEDIATION.P)  |
| 195.452(f)(4) (195.452(h); 195.588(c))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **15. Crack Remediation Criteria** If the pipeline is susceptible to cracking, do the records indicate that the remedial actions have been documented? (AR.RCHCA.CRACKREMEDIATION.R)  |
| 195.452(l)(1)(ii) (195.452(f)(4); 195.452(h)(4)(iii)(G); 195.588(c))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Assessment and Repair - Repair Methods and Practices**

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| **1. Safety While Making Repair** Does the process ensure that repairs are made in a safe manner and are made so as to prevent damage to persons and property? (AR.RMP.SAFETY.P)  |
| 195.402(c)(14) (195.422(a); 195.452(h)(1))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. Safety While Making Repair** Are repairs made in a safe manner and to prevent injury to persons and/or property damage? (AR.RMP.SAFETY.O)  |
| 195.422(a) (195.402(c)(14); 195.452(h)(1))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **3. Permissible Repair Methods** Does the process identify permissible repair methods for each type of defect? (AR.RMP.METHOD.P)  |
| 195.402(c)(3) (195.452(h)(1); 195.585)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Permissible Repair Methods** From the review of the results of integrity assessment and remediation projects, were all repairs performed in accordance with procedures and applicable sections of 49 CFR Part 195? (AR.RMP.METHOD.R)  |
| 195.404(c)(1) (195.422(a); 195.422(b); 195.452(h)(1); 195.401(b)(1); 195.401(b)(2))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. Qualification of Personnel Performing Pipeline Repair** From the records review of the results of integrity assessment and remediation projects, were personnel performing repairs, other than welding, qualified for the task they performed? (AR.RMP.REPAIRQUAL.R)  |
| 195.505(b) (195.507(a); 195.505(c); 195.452(h)(1); 195.452(b)(5))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. Repair Records** Do the repair records document all the information needed to understand the conditions of the pipe and its environment and also provide the information needed to support the Integrity Management program, when applicable? (AR.RMP.PIPECONDITION.R)  |
| 195.404(c)(1) (195.404(c)(2); 195.452(l)(1)(ii))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. Replacement Components** Were all replaced line pipe and/or components designed and constructed as required by Part 195? (AR.RMP.REPLACESTD.R)  |
| 195.404(a)(1) (195.422(b); )  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. Pipe Movements** From a review of selected records, were pipeline movements performed in accordance with 195.424? (AR.RMP.PIPEMOVE.R)  |
| 195.424(a) (195.424(b); 195.424(c))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. Welder Qualification** From the review of the results of integrity assessment and remediation projects, were repairs requiring welding performed by qualified welders using qualified welding procedures? (AR.RMP.WELDERQUAL.R)  |
| 195.214(a) (195.214(b); 195.222(a); 195.222(b); )  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. Repair of Weld Defects** From the review of the results of integrity assessment and remediation projects, were defects on new welds repaired in accordance with §195.226 or §195.230? (AR.RMP.WELDQUAL.R)  |
| 195.226(a) (195.226(b); 195.226(c); 195.230(a); 195.230(b); 195.230(c); )  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. Inspection of Welds** From the review of the results of remediation projects, were new welds inspected and examined in accordance with §195.228 or §195.234? (AR.RMP.WELDINSPECT.R)  |
| 195.228(a) (195.228(b); 195.234(a); 195.234(b); 195.234(c); 195.234(d); 195.234(e); )  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **12. Non-Destructive Examination (NDE) of Pipeline for Cracking When Exposed for Repair** Does the process include appropriate NDE method(s) and other information gathering during the evaluation of cracks and cracking? (AR.RMP.CRACKNDE.P)  |
| 195.452(f)(4) (195.452(h))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **13. Non-Destructive Examination (NDE) of Pipeline for Cracking When Exposed for Repair** Do the records indicate that appropriate NDE method(s) were used and other information was gathered related to the evaluation of cracking? (AR.RMP.CRACKNDE.R)  |
| 195.452(l)(1)(ii) (195.452(f)(4); 195.452(h); 195.404(c))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
|  |  |  |  |  |  |   |
| Notes |

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

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| **1. Identification of Facilities that Could Affect an HCA** Does the program include a written process for identification of facilities that could affect an HCA? (IM.FACIL.FACILIDENT.P)  |
| 195.452(f)(1) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. Identification of Facilities that Could Affect an HCA** Do the records indicate that locations and boundaries of HCA-affecting facilities are correctly identified and maintained up-to-date? (IM.FACIL.FACILIDENT.R)  |
| 195.452(l)(1)(i) (195.452(b)(2); 195.452(d)(2)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **3. Facilities Releases that Could Affect an HCA** Does the process include methods to determine the facility locations/scenarios and worst case volume of potential commodity releases? (IM.FACIL.RELEASE.P)  |
| 195.452(f)(1) (195.452(l)(1)(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Facilities Releases that Could Affect an HCA** Do the records indicate that identified release locations and spill volumes at facilities are consistent with the program requirements? (IM.FACIL.RELEASE.R)  |
| 195.452(l)(1)(ii) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. Facilities Releases Spread that Could Affect an HCA** Does the process include an analysis of overland spread & water transport of hazardous liquids to determine the extent of commodity spread from the facility and its effects on HCAs? (IM.FACIL.SPREAD.P)  |
| 195.452(f)(1) (195.452(l)(1)(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. Facilities Releases Spread that Could Affect an HCA** Do the records indicate the analysis of overland spread & water transport is consistent with the program/process requirements? (IM.FACIL.SPREAD.R)  |
| 195.452(l)(1)(ii) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. Preventive Measures Considered for Facilities that Could Affect an HCA** Does the process include requirements for identification of facility preventive measures to protect the HCAs? (IM.FACIL.PMMPREVENTIVE.P)  |
| 195.452(f)(6) (195.452(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. Preventive Measures Considered for Facilities that Could Affect an HCA** Do the records indicate that facility preventive measures to protect the HCAs have been considered and implemented? (IM.FACIL.PMMPREVENTIVE.R)  |
| 195.452(l)(1)(ii) (195.452(i)(1)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. Mitigative Measures Considered for Facilities that Could Affect an HCA** Does the process include requirements for identification and implementation of facility mitigative measures to protect the HCAs? (IM.FACIL.PMMMITIGATIVE.P)  |
| 195.452(f)(6) (195.452(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. Mitigative Measures Considered for Facilities that Could Affect an HCA** Do the records indicate that facility mitigative measures to protect the HCAs have been considered and implemented? (IM.FACIL.PMMMITIGATIVE.R)  |
| 195.452(l)(1)(ii) (195.452(i)(1)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. Preventive & Mitigative Measures Implemented for Facilities that Could Affect an HCA** Does an on-site observation provide indications that facility preventive & mitigative measures to protect the HCAs were implemented as proposed? (IM.FACIL.PMMIMPLEMENT.O)  |
| 195.452(i)(1) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Integrity Management - High Consequence Areas**

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| **1. IMP High Consequence Areas HCA Identification** Does the process require the identification of HCA-affecting pipe segments include steps to identify, document, and maintain up-to-date geographic locations and boundaries of HCAs using the NPMS and other information sources as necessary? (IM.HC.HCALOCATION.P)  |
| 195.452(f)(1) (195.452(a); 195.452(d)(2); 195.452(b)(2))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. IMP High Consequence Areas HCA Identification** Do records indicate that locations and boundaries of HCA-affecting pipe segments are correctly identified and maintained up-to-date? (IM.HC.HCALOCATION.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a); 195.452(b)(2); 195.452(d)(2); 195.452(j)(1))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **3. IMP High Consequence Areas HCA Identification** Are locations and boundaries of pipe segments that can affect HCAs correctly identified, maintained up-to-date, and verified in accordance with the program? (IM.HC.HCALOCATION.O)  |
| 195.452(b)(5) (195.452(a); 195.452(b)(2); 195.452(f)(1); 195.452(j)(2)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. IMP High Consequence Areas Direct Intersect Method and Direct Intersect Exceptions** Does the process include all locations where pipeline segments directly intersect a high consequence area? (IM.HC.HCAIDENT.P)  |
| 195.452(f)(1) (195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. IMP High Consequence Areas Direct Intersect Method and Direct Intersect Exceptions** Do records indicate that all locations where a pipeline segment is located in an HCA are determined and, if any exceptions for segments that directly intersect an HCA are taken, an adequate technical justification is provided? (IM.HC.HCAIDENT.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. IMP High Consequence Areas Release Locations and Spill Volumes** Does the process include methods to determine the locations and volume of potential commodity releases? (IM.HC.HCARELEASE.P)  |
| 195.452(f)(1) (195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. IMP High Consequence Areas Release Locations and Spill Volumes** Do records indicate that identified release locations and spill volumes are consistent with the documented process? (IM.HC.HCARELEASE.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. IMP High Consequence Areas Overland Spread of Liquid Pool** Does the process include an analysis of overland spread of hazardous liquids to determine the extent of commodity spread and its effects on HCAs? (IM.HC.HCAOVERLAND.P)  |
| 195.452(f)(1) (195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. IMP High Consequence Areas Overland Spread of Liquid Pool** Do records indicate that the analysis of overland spread is consistent with the documented process? (IM.HC.HCAOVERLAND.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. IMP High Consequence Areas Water Transport Analysis** Does the process include the analysis of water transport of hazardous liquids to determine the extent of commodity spread and its effects on HCAs? (IM.HC.HCAH2OTRANSP.P)  |
| 195.452(f)(1) (195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. IMP High Consequence Areas Water Transport Analysis** Do records indicate that water transport analysis is consistent with the documented process? (IM.HC.HCAH2OTRANSP.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))  |
|   |  |  |  |  |  |  |  |
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| **12. IMP High Consequence Areas Air Dispersion Analysis** Does the process include the analysis of the dispersion of vapors from the release of highly volatile liquids and volatile liquids to determine effects on HCAs? (IM.HC.HCAAIRDISP.P)  |
| 195.452(f)(1) (195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **13. IMP High Consequence Areas Air Dispersion Analysis** Do the records indicate that the analysis of air dispersion of vapors is consistent with the documented process? (IM.HC.HCAAIRDISP.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **14. IMP High Consequence Areas Identification of Segments that Could Indirectly Affect an HCA (Buffer Zone)** Does the process include all locations of pipeline segments that do not intersect, but could indirectly affect, an HCA (buffer zone)? (IM.HC.HCAINDIRECT.P)  |
| 195.452(f)(1) (195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **15. IMP High Consequence Areas Identification of Segments that Could Indirectly Affect an HCA (Buffer Zone)** Do the records indicate that endpoints of pipeline segments that could affect an HCA have been correctly identified where a buffer zone approach is utilized? (IM.HC.HCAINDIRECT.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **16. IMP High Consequence Areas Timely Completion of Segment Identification** Does the process require completion of segment identification for Category 3 pipelines prior to beginning of operation? (IM.HC.HCACAT3.P)  |
| 195.452(f)(1) (195.452(b)(2); 195.452(a)(3))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **17. IMP High Consequence Areas Timely Completion of Segment Identification** Do records indicate completion of segment identification for Category 3 pipelines prior to beginning of operation? (IM.HC.HCACAT3.R)  |
| 195.452(l)(1)(ii) (195.452(f)(1); 195.452(b)(2); 195.452(a)(3))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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**Integrity Management - Risk Analysis**

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| **1. Risk Analysis Input Information** Are field conditions on the pipeline segments accurately reflected in the appropriate risk assessment data and information? (IM.RA.RADATA.O)  |
| 195.452(b)(5) (195.452(f)(3))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. Risk Analysis Input Information** Does the process include an analysis and integration of all available information about the integrity of the entire pipeline and the consequences of a failure? (IM.RA.RADATA.P)  |
| 195.452(f)(3) (195.452(g); 195.452(j))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **3. Risk Analysis Input Information** Do the records indicate that all available information has been integrated into the risk analysis? (IM.RA.RADATA.R)  |
| 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g); 195.452(j))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Risk Analysis Comprehensiveness of Approach** Does the process include requirements for a risk analysis and the integration of all relevant risk factors, including the need to address potential risk of a compromised operations control system (e.g., cyber-attack), and all available information, when evaluating pipeline segments? (IM.RA.RAMETHOD.P)  |
| 195.452(f)(3) (195.452(g); 195.452(j))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. Risk Analysis Results** Do the records indicate that the results of the risk analysis process are useful for drawing conclusions and insights for decision making? (IM.RA.RARESULTS.R)  |
| 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g); 195.452(j))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. Subdivision of Pipeline Segments for Risk Analysis Purposes** Does the risk analysis process consider and incorporate the variation in risk factors along the pipeline such that segment-specific risk results and insights are obtained? (IM.RA.RASEGMENT.P)  |
| 195.452(f)(3) (195.452(g); 195.452(j))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. Risk Analysis Comprehensiveness of Approach** Do the records indicate the evaluation of the methodology(ies) used for evaluating risks to HCAs and the integration of all relevant risk factors and all available information when evaluating pipeline segments? (IM.RA.RAMETHOD.R)  |
| 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g); 195.452(e))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Integrity Management - Continual Evaluation and Assessment**

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| **1. IMP Periodic Evaluation** Does the process include requirements for performing periodic evaluations of pipeline integrity? (IM.CA.PERIODICEVAL.P)  |
| 195.452(f)(5) (195.452(j)(1); 195.452(j)(2); 195.452(g); 195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. IMP Periodic Evaluation** Do records indicate that evaluations of pipeline integrity are being performed periodically? (IM.CA.PERIODICEVAL.R)  |
| 195.452(l)(1)(ii) (195.452(f)(5); 195.452(j)(1); 195.452(j)(2); 195.452(g); 195.452(a))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. IMP High Consequence Areas HCA Identification** Are locations and boundaries of pipe segments that can affect HCAs correctly identified, maintained up-to-date, and verified in accordance with the program? (IM.HC.HCALOCATION.O)  |
| 195.452(b)(5) (195.452(a); 195.452(b)(2); 195.452(f)(1); 195.452(j)(2)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. IMP Continual Evaluation and Assessment Intervals** Does the process include all of the risk factors that reflect the conditions on the pipe segment to establish an assessment interval? (IM.CA.ASSESSINTERVAL.P)  |
| 195.452(f)(5) (195.452(e); 195.452(g); 195.452(j)(3))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. IMP Continual Evaluation and Assessment Intervals** Do the records indicate that the assessment intervals are consistent with the risks identified for the pipe segment and the results of previous assessments? (IM.CA.ASSESSINTERVAL.R)  |
| 195.452(l)(1)(ii) (195.452(f)(5); 195.452(e); 195.452(j)(1); 195.452(j)(3); 195.452(g))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. IMP Continual Evaluation and Assessment Methods** Does the process specify assessment methods that are appropriate for the specific integrity threats to the pipe segment? (IM.CA.ASSESSMETHOD.P)  |
| 195.452(f)(5) (195.452(j)(5); 195.452(g); 195.452(c)(1)(i)(A); 195.591)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. IMP Continual Evaluation and Assessment Methods** Do the records indicate that selected assessment methods are appropriate for the specific integrity threats to the pipe segment? (IM.CA.ASSESSMETHOD.R)  |
| 195.452(l)(1)(ii) (195.452(f)(5); 195.452(j)(5); 195.452(g); 195.452(c)(1)(i)(A); 195.591)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **12. IMP Continual Evaluation and Assessment Interval Variance Notification** Does the process include methodology for submitting variance notifications to PHMSA for integrity assessment intervals longer than the 5-year maximum assessment interval? (IM.CA.ASSESSNOTIFY.P)  |
| 195.452(f)(5) (195.452(j)(4); 195.452(m))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **13. IMP Continual Evaluation and Assessment Interval Variance Notification** Do the records indicate that variance notifications been submitted to PHMSA for integrity assessment intervals longer than the 5-year maximum assessment interval? (IM.CA.ASSESSNOTIFY.R)  |
| 195.452(l)(1)(ii) (195.452(f)(5); 195.452(m); 195.452(j)(4))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Integrity Management - Preventive and Mitigative Measures**

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| **1. P&M Measures - Identification & Evaluation** Does the Integrity Management Program include a process for the identification and evaluation of preventive & mitigative measures (P&M measures), resulting from the risk analysis, to prevent and mitigate the consequences of a pipeline failure that could affect a high consequence area (HCA)? (IM.PM.PMMMEASURES.P)  |
| 195.452(f)(6) (195.452(i)(1); 195.452(i)(2); 195 Appendix C, Section III; API Standard 1160)  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. P&M Measures - Identification & Evaluation** Do records demonstrate that the process of identification and evaluation for Preventive & Mitigative Measures (P&M Measures) has been applied in accordance with the documented process? (IM.PM.PMMMEASURES.R)  |
| 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2); 195 Appendix C, Section VI; API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **3. P&M Measures Actions Implemented** Have preventive and mitigative actions been implemented as described in the records? (IM.PM.PMMIMPLEMENT.O)  |
| 195.452(b)(5) (195.452(i)(1); 195.452(i)(2); 195.452(i)(3); 195.452(i)(4))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Mitigative Measure Actions Considered** Do the records indicate that mitigative actions have been considered and implemented? (IM.PM.PMMMITIGATIVE.R)  |
| 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. Preventive Measure Actions Considered** Do the records indicate that preventive actions have been considered and implemented? (IM.PM.PMMPREVENTIVE.R)  |
| 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. P&M Measures - Risk Analysis** Does the Integrity Management Program include conducting a risk analysis of the pipeline segment(s) to identify additional preventive & mitigative actions to enhance public safety or environmental protection? (IM.PM.PMMRISKANALYSIS.P)  |
| 195.452(f)(6) (195.452(i)(1); 195.452(i)(2); 195 Appendix C, Section II; API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **7. P&M Measures - Risk Analysis** Do records demonstrate that an adequate risk analysis of the pipeline segment(s) to identify additional preventive & mitigative actions to enhance public safety or environmental protection was performed? (IM.PM.PMMRISKANALYSIS.R)  |
| 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2); 195 Appendix C, Section VI; API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. P&M Measures - Leak Detection Capability Evaluation** Does the Integrity Management Program include a process for the evaluation of leak detection capabilities and modifying, as necessary, to protect the high consequence areas? (IM.PM.IMLEAKDETEVAL.P)  |
| 195.452(f)(6) (195.452(i)(3); 195 Appendix C, Section III; API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. P&M Measures - Leak Detection Capability Evaluation** Do records indicate that all required and other relevant leak detection evaluation factors have been evaluated to ensure the protection of HCAs? (IM.PM.IMLEAKDETEVAL.R)  |
| 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(3); 195 Appendix C, Section VI; API Standard 1160)  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. P&M Measures - Evaluation for EFRDs (Required)** Does the Integrity Management Program include a preventive & mitigative (P&M) measures process that specifically addresses the identification, evaluation, and application of EFRDs to protect high consequence areas in the event of a hazardous liquid pipeline release? (IM.PM.PMMEFRDREQUIRED.P)  |
| 195.452(f)(6) (195.452(i)(4); 195.452(i)(1); 195.452(i)(2); API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. P&M Measures - Evaluation for EFRDs (Required)** Do the records demonstrate that all required relevant EFRD evaluation factors were evaluated and any actions that have been taken are appropriate? (IM.PM.PMMEFRDREQUIRED.R)  |
| 195.452(f)(6) (195.452(i)(4); 195.452(i)(1); 195.452(i)(2); API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **12. P&M Measures - Evaluation for EFRDs (Other Factors)** Does the process consider the inclusion of OTHER factors in the evaluation of EFRDs? (IM.PM.PMMEFRDOTHER.P)  |
| 195.452(f)(6) (195.452(i)(4); 195.452(i)(1); 195.452(i)(2); API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **13. P&M Measures - Evaluation for EFRDs (Other Factors)** Do the records demonstrate that OTHER relevant EFRD evaluation factors were evaluated and any actions that have been taken are appropriate? (IM.PM.PMMEFRDOTHER.R)  |
| 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(4); API Standard 1160; 195 Appendix C, Section VI; API Standard 1160)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Integrity Management - Facilities**

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| **1. Identification of Facilities that Could Affect an HCA** Does the program include a written process for identification of facilities that could affect an HCA? (IM.FACIL.FACILIDENT.P)  |
| 195.452(f)(1) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **2. Identification of Facilities that Could Affect an HCA** Do the records indicate that locations and boundaries of HCA-affecting facilities are correctly identified and maintained up-to-date? (IM.FACIL.FACILIDENT.R)  |
| 195.452(l)(1)(i) (195.452(b)(2); 195.452(d)(2)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **3. Facilities Risk Analysis** Does the process include approaches to identify and evaluate the risks of facilities that can affect HCAs? (IM.FACIL.RISKANAL.P)  |
| 195.452(f)(3) (195.452(g); 195.452(j))  |
|   |  |  |  |  |  |  |  |
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| **4. Facilities Risk Analysis** Do the records indicate that the analysis of risk of facilities has been performed as required? (IM.FACIL.RISKANAL.R)  |
| 195.452(l)(1)(ii) (195.452(f)(3); 195.452(g); 195.452(j))  |
|   |  |  |  |  |  |  |  |
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| **5. Facilities Releases that Could Affect an HCA** Does the process include methods to determine the facility locations/scenarios and worst case volume of potential commodity releases? (IM.FACIL.RELEASE.P)  |
| 195.452(f)(1) (195.452(l)(1)(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. Facilities Releases that Could Affect an HCA** Do the records indicate that identified release locations and spill volumes at facilities are consistent with the program requirements? (IM.FACIL.RELEASE.R)  |
| 195.452(l)(1)(ii) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| **7. Facilities Releases Spread that Could Affect an HCA** Does the process include an analysis of overland spread & water transport of hazardous liquids to determine the extent of commodity spread from the facility and its effects on HCAs? (IM.FACIL.SPREAD.P)  |
| 195.452(f)(1) (195.452(l)(1)(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **8. Facilities Releases Spread that Could Affect an HCA** Do the records indicate the analysis of overland spread & water transport is consistent with the program/process requirements? (IM.FACIL.SPREAD.R)  |
| 195.452(l)(1)(ii) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **9. Facilities Releases that Could Affect an HCA - Air Dispersion** Where the facility handles HVLs or Volatile Liquids, does the process include an analysis of the air dispersion of vapors released from the facility to determine effects on HCAs? (IM.FACIL.AIRDISP.P)  |
| 195.452(f)(1) (195.452(l)(1)(i))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **10. Facilities Releases that Could Affect an HCA - Air Dispersion** Where the facility handles HVLs or Volatile Liquids, do the records indicate that the analysis of air dispersion of vapors from the facility is consistent with the process requirements? (IM.FACIL.AIRDISP.R)  |
| 195.452(l)(1)(ii)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **11. Periodic Evaluation of Facilities that Could Affect an HCA** Does the process include requirements for performing continual evaluations of facility integrity? (IM.FACIL.PERIODEVAL.P)  |
| 195.452(f)(5) (195.452(g); 195.452(j)(1); 195.452(j)(2))  |
|   |  |  |  |  |  |  |  |
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| **12. Periodic Evaluation of Facilities that Could Affect an HCA** Do the records indicate that periodic evaluations of integrity at facilities affecting HCAs have been performed? (IM.FACIL.PERIODEVAL.R)  |
| 195.452(l)(1)(ii) (195.452(j)(2))  |
|   |  |  |  |  |  |  |  |
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| **13. Preventive Measures Considered for Facilities that Could Affect an HCA** Does the process include requirements for identification of facility preventive measures to protect the HCAs? (IM.FACIL.PMMPREVENTIVE.P)  |
| 195.452(f)(6) (195.452(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **14. Preventive Measures Considered for Facilities that Could Affect an HCA** Do the records indicate that facility preventive measures to protect the HCAs have been considered and implemented? (IM.FACIL.PMMPREVENTIVE.R)  |
| 195.452(l)(1)(ii) (195.452(i)(1)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **15. Mitigative Measures Considered for Facilities that Could Affect an HCA** Does the process include requirements for identification and implementation of facility mitigative measures to protect the HCAs? (IM.FACIL.PMMMITIGATIVE.P)  |
| 195.452(f)(6) (195.452(i)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **16. Mitigative Measures Considered for Facilities that Could Affect an HCA** Do the records indicate that facility mitigative measures to protect the HCAs have been considered and implemented? (IM.FACIL.PMMMITIGATIVE.R)  |
| 195.452(l)(1)(ii) (195.452(i)(1)) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **17. Preventive & Mitigative Measures Implemented for Facilities that Could Affect an HCA** Does an on-site observation provide indications that facility preventive & mitigative measures to protect the HCAs were implemented as proposed? (IM.FACIL.PMMIMPLEMENT.O)  |
| 195.452(i)(1) *Note: this question is presented in multiple places so you will see multiple instances of it on this report.*  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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**Integrity Management - Quality Assurance**

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

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| **2. Measuring Program Effectiveness** Do the records indicate the methods to measure program effectiveness provide effective evaluation of program performance and result in program improvements where necessary? (IM.QA.IMPERFEFECTIVE.R)  |
| 195.452(l)(1)(ii) (195.452(f)(7); 195.452(k))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **3. Record Keeping** Does the process ensure that the records required for the integrity management program are maintained? (IM.QA.RECORDS.P)  |
| 195.402(c)(3) (195.452(l)(1))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. Performance Metrics** Does the process to evaluate IM program effectiveness include an adequate set of performance metrics to provide meaningful insight into IM program performance? (IM.QA.IMPERFMETRIC.P)  |
| 195.452(f)(7) (195.452(k))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **5. Performance Metrics** Do the records indicate that performance metrics are providing meaningful insight into integrity management program performance? (IM.QA.IMPERFMETRIC.R)  |
| 195.452(l)(1)(ii) (195.452(f)(7); 195.452(k))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **6. Record Keeping** Do the records indicate that the operator documented decisions, analysis, and actions taken to implement and evaluate each key integrity management program activity? (IM.QA.RECORDS.R)  |
| 195.452(l)(1)(ii)  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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

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| **4. Rural Low Stress Pipelines with Economic Compliance Burden** Where applicable, does the process include reporting of 195.12(d) “economic compliance burden” in accordance with 195.452(m)? (MO.LS.ECONBURDEN.P)  |
| 195.12(d) (195.12(b); 195.452(m))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **5. Rural Low Stress Pipelines with Economic Compliance Burden** Where applicable, do the records indicate reporting of 195.12(d) “economic compliance burden” in accordance with 195.452(m)? (MO.LS.ECONBURDEN.R)  |
| 195.12(f)(2) (195.12(b); 195.12(d); 195.452(m))  |
|   |  |  |  |  |  |  |  |
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| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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**Reporting - Notices and Reporting**

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| **3. IMP Notifications** Does the process include a requirement for submitting an IMP notification for each of the following circumstances: A) Unable to Meet Remediation Deadlines, B) Pressure Reductions, C) Use of Other Technology, D) Variance from Five-Year Assessment Intervals (Unavailable Technology), E) Variance from Five-Year Assessment Intervals (Engineering Basis)? (RPT.NR.NOTIFYIMP.P)  |
| 195.452(f)(5) (195.452(j)(4); 195.452(h)(1); 195.452(m))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| **4. IMP Notifications** Do the records indicate that the operator submitted IMP notification(s) for any of the following circumstances, when it was necessary to do so: A) Unable to Meet Remediation Deadlines, B) Pressure Reductions, C) Use of Other Technology, D) Variance from Five-Year Assessment Intervals (Unavailable Technology), E) Variance from Five-Year Assessment Intervals (Engineering Basis)? (RPT.NR.NOTIFYIMP.R)  |
| 195.452(l)(1)(ii) (195.452(m); 195.452(j)(4); 195.452(h)(1); 195.452(c)(1))  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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**Reporting - Regulatory Reporting (Traditional)**

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| **2. Annual Report IM Inspection Data** Do the records indicate that the Annual Report Part F Data is complete and accurate? (RPT.RR.ANNUALREPORTIMINSPECT.R)  |
| 195.49  |
|   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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| **3. Annual Report IM Assessment Completion Data** Is Annual Report Part G data complete and accurate? (RPT.RR.ANNUALREPORTIMASSESS.R)  |
| 195.49  |
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|  |  |  |  |  |  |  |  |
| Sat+ | Sat | Concern | Unsat | NA | NC |  |  |
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| Notes |

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