|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PIPELINE | **Shore Approach - OCS1** | | | | | | | | **PIG** | |
| **Startup year** | | | reererer | | | **Design Pressure** | | | reererer | |
| **Station** | | | reererer | | | **MAOP (PSI)** | | | reererer | |
| **Length (KM)** | | | reererer | | |  | | |  | |
| **Wall Thickness (inches)** | | | reererer | | | **Original Location class** | | | reererer | |
| **Material Spec.** | | | reererer | | | **Design Life** | | | reererer | |
| **External Coating** | | | reererer | | | **Cathodic Protection** | | | reererer | |
| **PIPELINE OPERATING DATA** | | | | | | | | | | |
| **Operating pressure (psig)** | | | | **Operating Temperature (oC)** | | | **Gas Flow rate (MMSCFD)** | | | |
| reererer | | | | reererer | | | reererer | | | |
| **INTEGRITY ASSESSMENT RESULTS** | | | | | | | | | | |
| **Last ILI PIG** | | reererer | | | **CR used for Rem. Life**  **(Need for 1st repair)** | | | reererer | | |
| **Prob. of Failure** | | reererer | | | **Assessment date** | | | reererer | | |
| **Overall Integrity Status(Remaining life)** | | reererer | | | **Remaining Life (Yrs)** | | | reererer | | |
| **Overall Integrity Status(Design life)** | | reererer | | | **Inspection year** | | | reererer | | |
| **Safe pressure B31G (PSI)** | | reererer | | | **Burst pressure** | | | reererer | | |
| **ERF** | | reererer | | |  | | | | |  |  |  |  |

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| **Internal corrosion control system** | | | |
| Corrosion Inhibitor | Yes | No |  |
| Corrosion Coupon | Yes | No |  |
| Corrosion Probe | Yes | No |  |

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| --- | --- | --- |
| **Latest maintenance activities** | | |
| Year of CIPS/DCVG | Year of MFL PIG | Year of GEO PIG |
|  | 2014 | 2014 |

|  |  |  |
| --- | --- | --- |
| External Corrosion Risk Assessment | | |
| **Summary result** | Low Risk | High Risk |
| CP level | External corrosion defect by MFL PIG | External corrosion rate by PIG |
| Within criteria | depth > 60% w.t. | < 0.13 mm / yr |
| Under criteria | 40 % w.t. < depth < 60 %w.t. | 0.13 – 0.2 mm / yr |
|  | 20 % w.t. < depth < 40 %w.t. | 0.21 – 0.38 mm / yr |
|  | depth < 20 % w.t. | > 0.38 mm/yr |
| No. of Stray current point or Current flow to other buried metal | AC interference | Coating defect survey |
| 0 | No AC power line is within 1,000 ft of the pipeline | No coating defect |
| 0-5 | AC power line is nearby but preventive measures are taken | Minor (Category 1 : 1% < IR < 15%) |
| >5 | AC power line is nearby, no preventive action | Moderate (Category 2 : 16% < IR < 35%) |
| Unknown | Unknown | Major (Category 3 : 36% < IR < 60%)) |
|  |  | Severe (Category 4 : 61% < IR < 100%) |
|  |  | Unknown |
| *Detail:* | | |
|  | | |

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| Internal Corrosion Risk Assessment | | | |
| **Summary result** | | Low Risk | High Risk |
| Water content monitor | Internal corrosion defect by MFL PIG | | Internal corrosion rate by PIG |
| < 7 Ib/MMscfd | depth > 60% w.t. | | < 0.13 mm / yr |
| > 7 Ib/MMscfd | 40 % w.t. < depth < 60 %w.t. | | 0.13 – 0.2 mm / yr |
|  | 20 % w.t. < depth < 40 %w.t. | | 0.21 – 0.38 mm / yr |
|  | depth < 20 % w.t. | | > 0.38 mm/yr |
| CO2 content | H2S content | | Dew Point Upset |
| CO2 %mol <=2 | Partial pressure H2S <= 0.05 | | Min Operating Temperature > Dew Point |
| CO2 %mol >2 | Partial pressure H2S > 0.05 | | Min Operating Temperature < Dew Point (≤ 7 days per year) |
|  |  | | Min Operating Temperature < Dew Point (≤ 30 days per year) |
|  |  | | Min Operating Temperature < Dew Point (> 30 days per year) |
| *Detail:* | | | |
|  | | | |
| Mechanical damage / Third party interference | | | |
| **Summary result** | | Low Risk | High Risk |
| Concrete coating damage | | Dent (Detected by GEO PIG) |  |
| Yes | | Yes |  |
| No | | No |  |
| Activity Level | | ROW condition |  |
| High activity level | | poor |  |
| Medium activity level | | average |  |
| Low activity level | | good |  |
| None | | excellent |  |
| *Detail:* | | | |

|  |  |  |
| --- | --- | --- |
| Third party interference | | |
| **Summary result** | Low Risk | High Risk |
| **Detail:** | | |
|  | | |
| Loss of ground support | | |
| **Summary result** | No | Yes |
| Flooding susceptibility | Soil stability | Exposed pipeline section |
| Never | Stable | All buried |
| possible | Land movement possible | Some Areas Exposed |
| yes | Measure strain increase | Many Areas Exposed |
|  | Land movement record | All Areas Exposed |
| **Detail:** | | |

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| --- | --- | --- |
| **Pipeline Repair History** | | |
| **Summary result** | No | Yes, see more in detail |
| **Detail:**   * N/A | | |

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| Recommendation |
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