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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| km%20clr%20blend  ***Project Manager’s Project OQ Covered Task Checklist (DOT 195 – Liquids)***  ***KM Operator Qualification Plan, Appendix E, Attachment 2***  *Revised 1/13/2021*   |  |  |  |  | | --- | --- | --- | --- | | Project Name | Date | Project Manager | Contractor | |  |  |  | | **OQ Covered Tasks on this project?:** Yes  No If **yes**, complete remainder of form to accompany bid process and attach to final contract. If **no**, print only the **1st page** and file with final contract.  **Directions for Project Manager:** Check the “To Be Performed” column for every covered task to be performed during this project by Company or Contract personnel.  **Directions for Contractor**: For each covered task with a check in the “To Be Performed by Contractor” column, check the box in the fourth column if OQ qualified personnel will be available when the task(s) must be performed.  **Span of Control**: This column identifies the span of control for directing and observing non-qualified workers on each covered task. It is expressed in the form of a ratio. For example, 1:1 span of control means that 1 OQ qualified employee can direct and observe only 1 unqualified worker performing that specific task. | | | | |

| **KMI Covered Task** | | **Span of Control** | **To Be Performed by Company** | **To Be Performed by Contractor** | **OQ Qualified Personnel Available** |
| --- | --- | --- | --- | --- | --- |
| 101.01 | Abnormal Operating Conditions – Outside of Control Room **(always required if other covered tasks are performed)** | NA |  |  |  |
| 102.01 | Measure Structure-to-Soil Potentials | 1:1 |  |  |  |
| 102.02 | Advanced Cathodic Testing | 1:1 |  |  |  |
| 102.03 | Active Corrosion/Microbiological Corrosion (MIC) Testing | 1:1 |  |  |  |
| 102.04 | Maintain Cathodic Test Leads (ETSs) | 1:1 |  |  |  |
| 102.05 | Read Rectifier | 1:1 |  |  |  |
| 102.06 | Use of Current Interrupters on Rectifiers | 1:1 |  |  |  |
| 102.07 | Adjust Rectifier | 1:1 |  |  |  |
| 102.08 | Maintain Rectifier | 1:1 |  |  |  |
| 102.09 | Atmospheric Corrosion – Inspection of Coatings | 1:1 |  |  |  |
| 102.10 | Atmospheric Corrosion – Surface Preparation | 1:3 |  |  |  |
| 102.11 | Atmospheric Corrosion – Application of Coatings | 1:5 |  |  |  |
| 102.12 | Electronic Holiday Detection | 1:1 |  |  |  |
| 102.13 | External Coatings on Buried or Submerged Components – Application and Repair | 1:2 |  |  |  |
| 102.14 | Cathodic Protection Remediation | 1:1 |  |  |  |
| 102.15 | Internal Corrosion – Control Injection Rate | 1:1 |  |  |  |
| 102.16 | Internal Corrosion – Monitor Injection Rate | 1:1 |  |  |  |
| 102.17 | Internal Corrosion – Insertion and Removal of Probes and Coupons | 1:1 |  |  |  |
| 102.18 | Internal Corrosion – Monitoring Probes | 1:1 |  |  |  |
| 102.19 | Internal Corrosion – Inspect Internal Pipe Surfaces | 1:1 |  |  |  |
| 102.20 | Inspect Aerial Indicator on Rectifier | 1:1 |  |  |  |
| 102.21 | Inspect and Perform Electrical Test of Bonds | 1:1 |  |  |  |
| 102.23 | Monitoring of Vapor Corrosion Inhibitor System – Tanks | 1:1 |  | NA |  |
| 102.24 | Visual Inspection of Buried Pipe and Components When Exposed | 1:1 |  |  |  |
| 102.25 | Visual Inspection of Internal Surface of Pipe | 1:1 |  |  |  |
| 102.26 | Evaluating Anomalies Using Handyscan 700 (KMLT Only) | 1:0 |  |  |  |
| 103.01 | Inspect Navigable Waterway Crossing | 1:1 |  |  |  |
| 103.02 | Inspect Atmospheric Breakout Tanks – Monthly External In-Service | 1:2 |  |  |  |
| 103.03 | Inspect Atmospheric Breakout Tanks – API 653 External In-Service | 1:3 |  |  |  |
| 103.04 | Inspect Atmospheric Breakout Tanks – API 653 Out of  Service | 1:3 |  |  |  |
| 103.05 | Overfill Protective Devices – Manual Testing | 1:1 |  |  |  |
| 103.06 | Inspect Pressurized Breakout Tanks – External Inspection | 1:3 |  |  |  |
| 103.07 | Repair Pressurized Breakout Tanks | 1:3 |  |  |  |
| 103.09 | Non-Destructive Testing of Welds | 1:3 |  |  |  |
| 103.11 | Damage Prevention During Excavation Activities | 1:1 |  |  |  |
| 103.12 | Inspection Activities – Welding on Pipeline System | 1:0 |  |  |  |
| 103.13 | Inspection Activities – Non-Destructive Testing | 1:1 |  |  |  |
| 103.14 | Conduct DOT Pipeline Pressure Tests | 1:2 |  |  |  |
| 103.15 | CPM Leak Detection | 1:1 |  |  |  |
| 104.01 | Inspect Buried Pipe When Exposed | 1:1 |  |  |  |
| 104.02 | Measure Damage on Pipe – Manual Measurement | 1:1 |  |  |  |
| 104.03 | Measure Wall Thickness of Pipe – Ultrasonic Measurement | 1:1 |  |  |  |
| 104.04 | Place and Maintain Permanent Line Markers | 1:4 |  |  |  |
| 104.05 | Inspect Surface Conditions of Right-of-Way | 1:1 |  |  |  |
| 104.06 | Inspection Following Blasting | 1:1 |  |  |  |
| 104.07 | DOT Inspection of Valves | 1:2 |  |  |  |
| 104.08 | Moving In-Service Pipe | 1:3 |  |  |  |
| 104.09 | Inspection of Clearance of Existing Pipe to Underground Structures | 1:3 |  |  |  |
| 104.10 | Inspection of Support Structures on Existing Aboveground Components | 1:4 |  |  |  |
| 104.11 | Backfilling an Excavation | 1:3 |  |  |  |
| 104.12 | Composite Sleeve Application - ClockSpring® | 1:0 |  |  |  |
| 104.13 | General Pipeline Repair – Full Encirclement Sleeve | 1:2 |  |  |  |
| 104.14 | General Pipeline Repair – Component Replacement | 1:2 |  |  |  |
| 104.15 | General Pipeline Repair – Stoppling | 1:2 |  |  |  |
| 104.16 | General Pipeline Repair – Hot Tap | 1:2 |  |  |  |
| 104.17 | Evacuation of Liquids from Pipe Using Inert Gas | 1:3 |  |  |  |
| 104.18 | Evacuation of Liquids from Pipe Using Liquid Flammable Gas | 1:3 |  |  |  |
| 104.19 | Evacuation of Liquids from Pipe | 1:3 |  |  |  |
| 104.20 | Safe Disconnecting of Abandoned Pipeline Facilities | 1:3 |  |  |  |
| 104.21 | Welding on Existing Pipeline Systems | 1:0 |  |  |  |
| 104.22 | Locate Pipeline | 1:1 |  |  |  |
| 104.23 | Temporary Marking of Pipeline | 1:1 |  |  |  |
| 104.24 | Installation/Use of Vapor Barriers | 1:1 |  |  |  |
| 105.01 | Provide Security for Pipeline Facilities | 1:1 |  |  |  |
| 105.02 | Monitor by Remote Security Devices | 1:1 |  |  |  |
| 105.03 | Breakout Tanks Static Protection – Line Velocity | 1:1 |  |  |  |
| 105.06 | Overfill Protective Devices – Knowledge of Tank Level Alarms | 1:1 |  |  |  |
| 105.07 | Overfill Protective Devices – Response to Tank Level Alarms | 1:1 |  |  |  |
| 105.08 | Operations of Pipeline System – Start Pipeline | 1:1 |  |  |  |
| 105.09 | Operations of Pipeline System – Normal Shutdown from Normally Controlling Location | 1:1 |  |  |  |
| 105.10 | Operations of Pipeline System – Normal Shutdown from Location Not Normally Controlling | 1:1 |  |  |  |
| 105.11 | Operations of Pipeline System – Emergency Pipeline Shutdown | 1:1 |  |  |  |
| 105.12 | Operations of Pipeline System – Emergency Station Shut-In | 1:1 |  |  |  |
| 105.13 | Operations of Pipeline System – Unit Adjustment | 1:1 |  |  |  |
| 105.14 | Operations of Pipeline System – Tank Management | 1:1 |  |  |  |
| 105.15 | Operations of Pipeline System – Monitor Communications | 1:1 |  |  |  |
| 105.16 | Operations of Pipeline System – Monitor Leak Detection and Line Integrity | 1:1 |  |  |  |
| 105.17 | Operations of Pipeline System – Monitor Flow Rates | 1:1 |  |  |  |
| 105.18 | Operations of Pipeline System – Maintain Pressures Within Allowable Limits | 1:1 |  |  |  |
| 105.19 | Operations of Pipeline System – Manually or Remotely Open or Close Valves | 1:1 |  |  |  |
| 105.20 | Operations of Pipeline System – Operating Pressure Test | 1:1 |  |  |  |
| 105.21 | Operate Pressure Relieving Devices for Launching and Receiving Facilities | 1:2 |  |  |  |
| 106.01 | Maintain and Repair Power Valve Actuators | 1:2 |  |  |  |
| 106.02 | Preventive Maintenance Valve Actuators | 1:2 |  |  |  |
| 106.03 | Lubricate Valves | 1:2 |  |  |  |
| 106.04 | Repair Valves | 1:2 |  |  |  |
| 106.05 | Overpressure Safety Devices – Inspect, Test and Calibrate Relief Valves | 1:1 |  |  |  |
| 106.06 | Overpressure Safety Devices – Pressure Switches and Transmitters | 1:1 |  |  |  |
| 106.07 | Pressure Limiting Devices – Inspect, Test and Calibrate Mechanical Control Valves | 1:1 |  |  |  |
| 106.08 | Pressure Limiting Devices – Inspect, Test and Calibrate Electronic/Electro-Hydraulic Control Loops | 1:1 |  |  |  |
| 106.09 | Overfill Protective Devices – Repair and Replacement | 1:1 |  |  |  |
| 106.10 | Inspect and Maintain Pressure Vacuum Vents | 1:1 |  |  |  |
|  |  |  |  |  |  |

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| --- | --- |
| **Contractor Name:** |  |
| **By: *(print and sign)*** |  |
|  |  |
| **Phone Number:** |  |

**Questions on OQ?**: Contact the OQ Department, #OQ Department ([OQDepartment@kindermorgan.com](mailto:OQDepartment@kindermorgan.com))

**Distribution and Retention**: This form is a project record, whether or not OQ Covered Tasks are performed, it must be included in the bid or contractor selection process and become part of the final contract file. There is a five-year record retention rule for all OQ documentation.