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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 2/14/2023*

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| --- | --- | --- | --- |
| 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. |

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| **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 | 1:2 | [ ]  | [ ]  | [ ]  |
| 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 ofService | 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 | 1:0 | [ ]  | [ ]  | [ ]  |
| 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 | 1:2 | [ ]  | [ ]  | [ ]  |
| 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 | 1:2 | [ ]  | [ ]  | [ ]  |
| 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 | [ ]  | [ ]  | [ ]  |
| 104.25 | Joining of Pipe/Tubing – Threaded Fittings | 1:1 | [ ]  | [ ]  | [ ]  |
| 104.26 | Joining of Pipe - Flange-Gasket Assembly | 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)

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