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| km%20clr%20blend  ***Project Manager’s Project OQ Covered Task Checklist (DOT 192 – Gas)***  ***KM Operator Qualification Plan, Appendix E, Attachment 1***  *Revised 8/05/2024* | | | |
| 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** |
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| 01.01.01 | Abnormal Operating Conditions (AOC) - Outside of Control Room **(always required if other covered tasks are performed)** | N/A |  |  |  |
| 02.01.01 | Gas Detection & Alarm System Maintenance & Performance Test | 1:1 |  |  |  |
| 02.02.01 | Isolation of Compressor Units | 1:1 |  |  |  |
| 02.03.01 | Compressor Station Inspection & Testing of Remote Control Shutdown Devices | 1:1 |  |  |  |
| 02.04.01 | Provide Security for Pipeline Facilities | 1:1 |  |  |  |
| 03.01.01 | Operating Compressor Units: Remote | 1:1 |  |  |  |
| 03.01.02 | Operating Compressor Units: Manual | 1:1 |  |  |  |
| 03.02.01 | Shutting Down Compressor Units: Remote | 1:1 |  |  |  |
| 03.02.02 | Shutting Down Compressor Units: Manual | 1:1 |  |  |  |
| 03.03.01 | Starting Compressor Units: Remote | 1:1 |  |  |  |
| 03.03.02 | Starting Compressor Units: Manual | 1:1 |  |  |  |
| 04.01.01 | Measure Damage on Installed Pipe and Components | 1:1 |  |  |  |
| 04.01.02 | Corrosion Monitoring – Atmospheric, External, and Internal: Offshore Pipelines | 1:1 |  |  |  |
| 04.01.03 | Visual Inspection of Buried Pipe and Components When Exposed | 1:1 |  |  |  |
| 04.01.04 | Visual Inspection of Internal Surface of Pipe | 1:1 |  |  |  |
| 04.01.05 | Visual Inspection for External/Atmospheric Corrosion | 1:1 |  |  |  |
| 04.01.06 | Insert and Remove Coupons/Probes for Internal Corrosion Monitoring | 1:1 |  |  |  |
| 04.01.07 | Nondestructive Testing – Magnetic Particle Testing of Pipe | 1:0 |  |  |  |
| 04.01.08 | Evaluating Anomalies Using  Handyscan 700® | 1:0 |  |  |  |
| 04.02.01 | Coating Maintenance/Application and Repair- Sprayed, Brushed or Rolled | 1:3 |  |  |  |
| 04.02.02 | Coating Maintenance/Repair-Wrapped | 1:2 |  |  |  |
| 04.03.01 | Electronic Holiday Detection | 1:1 |  |  |  |
| 05.01.01 | Cathodic Protection System Maintenance: Rectifiers | 1:1 |  |  |  |
| 05.01.02 | Cathodic Protection System Maintenance: Electrical Isolation | 1:1 |  |  |  |
| 05.01.03 | Cathodic Protection System Maintenance: Anodes & Anode Ground Beds | 1:1 |  |  |  |
| 05.01.04 | Inspect or Test Cathodic Protection Bonds | 1:1 |  |  |  |
| 05.01.06 | Cathodic Protection System Maintenance: Automatic Potential Controlled Protection Systems | 1:1 |  |  |  |
| 05.01.07 | Cathodic Protection System Maintenance: AC Voltage Mitigation System | 1:1 |  |  |  |
| 05.01.08 | Cathodic Protection: Read Rectifier | 1:1 |  |  |  |
| 05.02.01 | Cathodic Protection System – Electrical Connections | 1:1 |  |  |  |
| 05.02.02 | Maintain Cathodic Test Leads | 1:1 |  |  |  |
| 05.03.01 | Cathodic Protection System Testing: Test Stations | 1:1 |  |  |  |
| 05.03.02 | Indirect Inspection – Measure Structure-to Electrolyte Potential | 1:1 |  |  |  |
| 06.01.01 | Indirect Inspection: Close Interval Survey | 1:1 |  |  |  |
| 06.01.02 | Indirect Inspection: Direct Current Voltage Gradient (DCVG) Survey | 1:1 |  |  |  |
| 06.01.03 | Indirect Inspection: Voltage Gradient (ACVG) Survey | 1:1 |  |  |  |
| 06.01.04 | Indirect Inspection: PCM/ACA Survey | 1:1 |  |  |  |
| 07.01.01 | Locating, Installing & Protecting Customer Meters & Regulators: Residential & Small Commercial | 1:1 |  |  |  |
| 07.01.02 | Locating, Installing & Protecting Customer Meters & Regulators: Large Commercial | 1:1 |  |  |  |
| 07.02.01 | Customer Pressure Regulating, Limiting & Relief Device: Residential & Small Commercial | 1:1 |  |  |  |
| 07.02.02 | Customer Pressure Regulating, Limiting & Relief Device: Large Commercial & Industrial | 1:1 |  |  |  |
| 08.01.01 | Locating Pipelines | 1:1 |  |  |  |
| 08.02.01 | Damage Prevention During Excavation Activities | 1:1 |  |  |  |
| 09.01.01 | System Patrolling | 1:1 |  |  |  |
| 10.01.01 | Plastic Pipe – Electrofusion: Couplings | 1:0 |  |  |  |
| 10.01.02 | Plastic Pipe – Electrofusion: Sidewall | 1:0 |  |  |  |
| 10.02.01 | Plastic Pipe – Butt Heat Fusion | 1:0 |  |  |  |
| 10.03.01 | Plastic Pipe – Sidewall Heat Fusion | 1:0 |  |  |  |
| 10.04.01 | Plastic Pipe – Mechanical Joints: Stab Fittings | 1:0 |  |  |  |
| 10.04.02 | Plastic Pipe – Mechanical Joints: Compression Couplings 2” & Less | 1:0 |  |  |  |
| 10.04.03 | Plastic Pipe – Mechanical Joints: Compression Couplings Greater Than 2” | 1:0 |  |  |  |
| 10.05.01 | Joining of Pipe- Flange Assembly | 1:3 |  |  |  |
| 10.05.02 | Joining of Pipe/Tubing - Threaded Fittings | 1:3 |  |  |  |
| 10.07.01 | Solvent Cement Joints | 1:0 |  |  |  |
| 11.01.01 | Direct/Inspect In-service Pipeline Lowering | 1:0 |  |  |  |
| 11.02.01 | Detect/Inhibit/Mitigate Hydrate Formation in Pipeline | 1:1 |  |  |  |
| 12.01.01 | Leakage Survey: Walking | 1:1 |  |  |  |
| 12.01.02 | Leakage Survey: Mobile | 1:1 |  |  |  |
| 12.02.01 | Outside Leakage Investigation, Pinpointing and Grading | 1:1 |  |  |  |
| 12.03.01 | Inside Gas Leakage Investigation | 1:1 |  |  |  |
| 13.01.01 | Leak & Strength Test – Service Lines, Mains & Transmission Lines: Gaseous: Test Pressures ≤ 100 psi | 1:2 |  |  |  |
| 13.01.02 | Leak & Strength Test – Service Lines, Mains & Transmission Lines: Gaseous: Test Pressures > 100 psi | 1:2 |  |  |  |
| 13.01.03 | Leak & Strength Test – Service Lines, Mains & Transmission Lines: Hydrostatic Test | 1:2 |  |  |  |
| 13.01.04 | Leak & Strength Test – Service Lines, Mains & Transmission Lines: Test at Operation Pressure | 1:1 |  |  |  |
| 14.01.01 | Abandonment or Inactivation of Facilities - Transmission | 1:3 |  |  |  |
| 14.02.01 | Backfilling | 1:3 |  |  |  |
| 14.03.01 | Installation of Steel Pipe – Field Bends | 1:1 |  |  |  |
| 14.04.01 | Casing Vents and Seals | 1:3 |  |  |  |
| 14.04.02 | Casing Removal | 1:3 |  |  |  |
| 14.05.01 | Underground Clearances | 1:3 |  |  |  |
| 14.06.01 | Installation of Plastic Pipe: Direct Burial | 1:5 |  |  |  |
| 14.06.02 | Installation of Plastic Pipe: Boring | 1:2 |  |  |  |
| 14.06.03 | Installation of Plastic Pipe: Plowing/Planting | 1:2 |  |  |  |
| 14.06.04 | Installation of Plastic Pipe: Plowing/Pull-In | 1:2 |  |  |  |
| 14.06.05 | Installation of Plastic Pipe: Above Ground | 1:3 |  |  |  |
| 14.06.06 | Installation of Plastic Pipe: Insertion | 1:3 |  |  |  |
| 14.07.01 | Installation of Steel Pipe: Direct Burial | 1:5 |  |  |  |
| 14.07.02 | Installation of Steel Pipe: Boring | 1:2 |  |  |  |
| 14.07.03 | Installation of Steel Pipe: Pull-In | 1:2 |  |  |  |
| 14.07.04 | Installation of Steel Pipe: Above Ground | 1:3 |  |  |  |
| 14.07.05 | Installation of Steel Pipe: Insertion | 1:3 |  |  |  |
| 14.08.01 | Cover – Service Lines, Mains & Transmission Lines | 1:3 |  |  |  |
| 14.08.02 | Cover – Offshore Pipelines | 1:1 |  |  |  |
| 14.09.01 | Inspection: Compliance with Procedures & Standards | 1:2 |  |  |  |
| 14.09.02 | Inspection: Inspection of Materials | 1:2 |  |  |  |
| 14.10.01 | Line Markers | 1:4 |  |  |  |
| 14.11.02 | Pipeline Shutdown, Startup or Pressure Change: Line Stop Fitting | 1:0 |  |  |  |
| 14.11.03 | Pipeline Shutdown, Startup or Pressure Change: Operating Identified Valve(s) | 1:3 |  |  |  |
| 14.11.04 | Pipeline Shutdown, Startup or Pressure Change: Station Console Pressure Control Adjustment | 1:1 |  |  |  |
| 14.11.05 | Launching and Receiving Internal Devices | 1:2 |  |  |  |
| 14.11.06 | Operate and Maintain Closure Devices | 1:1 |  |  |  |
| 14.12.01 | Protection from Earth Movement Hazards | 1:3 |  |  |  |
| 14.13.01 | Protection When Minimum Cover Not Met | 1:3 |  |  |  |
| 14.14.01 | Purging: Large Volume, i.e. Segment of Main or Transmission Line, etc. | 1:3 |  |  |  |
| 14.14.02 | Purging: Small Volume, i.e. Service Line, Short Pipeline Segments, Compressor, Component, etc. | 1:3 |  |  |  |
| 14.14.03 | Operate Air Movers | 1:1 |  |  |  |
| 14.15.01 | Uprating: Reinforce or Anchor Offsets, Bends and Dead Ends – Longitudinal Straps | 1:3 |  |  |  |
| 14.15.02 | Uprating: Reinforce or Anchor Offsets, Bends and Dead Ends – Anchoring & Buttressing | 1:3 |  |  |  |
| 14.16.01 | Installation of Steel Pipe – Repair of Imperfections or Damage by Buffing | 1:1 |  |  |  |
| 14.18.01 | Support, Expansion Joint and Anchor Maintenance – Exposed Pipeline | 1:4 |  |  |  |
| 14.19.01 | Tapping Steel and Plastic Pipe: Manual (Self-Tapping) | 1:0 |  |  |  |
| 14.19.02 | Tapping Steel and Plastic Pipe: Mechanical Tapping Equipment | 1:0 |  |  |  |
| 14.20.01 | DOT Inspection of Valves | 1:2 |  |  |  |
| 14.20.02 | Repair Valves | 1:2 |  |  |  |
| 14.20.05 | Lubricate Valves | 1:1 |  |  |  |
| 14.21.01 | Segment Removal | 1:5 |  |  |  |
| 14.22.01 | Leak Clamps & Sleeves: Bolt-On Type | 1:2 |  |  |  |
| 14.22.02 | Composite Sleeve Application - ClockSpring® | 1:0 |  |  |  |
| 14.22.03 | Composite Sleeve Application - Armor Plate® | 1:0 |  |  |  |
| 14.22.04 | Composite Sleeve Application - Other | 1:0 |  |  |  |
| 15.01.01 | Odorization – Mains & Transmission Lines: Periodic Sampling | 1:1 |  |  |  |
| 15.01.02 | Odorization – Mains & Transmission Lines: Odorizer Maintenance | 1:5 |  |  |  |
| 16.01.01 | Gas Quality: Operate/Test/Maintain (CO2) Analyzers | 1:1 |  |  |  |
| 16.01.02 | Gas Quality: Maintain/Service Chromatographs | 1:1 |  |  |  |
| 16.01.03 | Gas Quality: Operate/Test/Maintain (O2) Analyzers | 1:1 |  |  |  |
| 16.01.04 | Gas Quality: Operate/Test/Maintain Sulfur Analyzers | 1:1 |  |  |  |
| 16.01.05 | Gas Quality: Operate/Test/Maintain Moisture Analyzers | 1:1 |  |  |  |
| 16.01.07 | Gas Quality: Operate and Maintain Gas Samplers | 1:1 |  |  |  |
| 16.01.08 | Gas Quality: Troubleshoot/Repair Chromatographs | 1:1 |  |  |  |
| 16.01.09 | Gas Quality: Troubleshoot/Repair Sulfur Analyzers | 1:1 |  |  |  |
| 16.01.10 | Gas Quality: Troubleshoot/Repair Moisture Analyzers | 1:1 |  |  |  |
| 16.01.11 | Gas Quality: Troubleshoot/Repair (CO2) Analyzers | 1:1 |  |  |  |
| 16.01.12 | Gas Quality: Troubleshoot/Repair (O2) Analyzers | 1:1 |  |  |  |
| 18.01.01 | Overpressure Safety Devices – Inspect, Test, and Calibrate Relief Valves | 1:1 |  |  |  |
| 18.01.02 | Pressure Limiting Devices – Inspect, Test and Calibrate | 1:1 |  |  |  |
| 18.02.01 | Vault Maintenance | 1:1 |  |  |  |
| 20.01.01 | Service Line Replacement | 1:3 |  |  |  |
| 20.01.02 | Service Line Replacement: Underground Service Entrance | 1:3 |  |  |  |
| 20.03.01 | Service Lines Not in Use and Service Discontinuance | 1:1 |  |  |  |
| 24.01.01 | Welding Process | 1:0 |  |  |  |
| 24.01.02 | Installation/Use of Vapor Barriers | 1:1 |  |  |  |
| 24.02.01 | Visual Inspection of Welds | 1:1 |  |  |  |
| 24.03.01 | Nondestructive Testing of Welds | 1:0 |  |  |  |
| 24.04.01 | Miter Joints | 1:1 |  |  |  |
| 25.01.01 | Dehydration: Operate/Maintain Liquid Knock-out | 1:1 |  |  |  |
| 25.01.02 | Dehydration: Maintain/Repair Gas Fired Glycol Dehydration System Controls | 1:1 |  |  |  |
| 25.01.03 | Dehydration: Operate/Maintain Glycol Gas Dehydration System | 1:1 |  |  |  |
| 25.01.05 | Dehydration: Troubleshoot/Repair Glycol Gas Dehydration System | 1:1 |  |  |  |
| 25.01.06 | Dehydration: Read/Verify/Maintain Operating Parameters for Gas Processing-Amine System | 1:1 |  |  |  |
| 25.01.07 | Dehydration: Troubleshoot/Correct Gas Processing Amine System | 1:1 |  |  |  |
| 25.01.08 | Dehydration: Maintain/Repair Gas Fired Dry-Bed (Mole Sieve or Desiccant Bead) Dehydration System Controls | 1:1 |  |  |  |
| 25.01.09 | Dehydration: Operate/Maintain Gas Fired Dry-Bed (Mole Sieve or Desiccant Bead) Dehydration System | 1:1 |  |  |  |
| 25.01.11 | Dehydration: Troubleshoot/Repair Dry-Bed (Mole Sieve or Desiccant Bead) Dehydration System | 1:1 |  |  |  |
| 27.01.03 | Remote Compressor Station Operations | 1:1 |  |  |  |
| 27.01.04 | Remote Flow Control | 1:1 |  |  |  |

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

**Questions on OQ?**: Contact the OQ Department, #OQ Department

**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.